



Government of Tanzania-Hospital Management Information System (GoT-HoMIS version 3.0) User Manual v1



Ministry of Health
Community Development,
Gender, Elderly and children

Presidents Office -
Regional Administration
And Local Government
(PO-RALG)

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LIST OF ACRONYMS

EMR	Electronic Medical Record
ENT	Ear, Nose and Throat
GBV	Gender Based Violence
GePG	Government electronic Payment Gateway
GoT-HoMIS	Government of Tanzania Hospital Management Information System
IPD	Inpatient Department
MRN	Medical Record Number
MSD	Medical Store Department
MTUHA	Mfumo wa Taarifa za Uendeshaji wa Huduma Za Afya.
OPD	Outpatient Department
PO-RALG	President's Office – Regional Administration and Local Government
RCH	Reproductive Child Health
SAN	Sequential Account Number
VAC	Violence Against Children

TABLE OF CONTENTS

STATEMENT OF COPYRIGHT	i
LIST OF ACRONYMS	ii
CHAPTER ONE	v
SYSTEM OVERVIEW	v
CHAPTER TWO	1
2.1. SYSTEM REQUIREMENTS.....	1
2.2 INSTALLATION	2
CHAPTER THREE	5
3.1 INTRODUCTION TO (GOT – HOMIS) MODULES	5
SYSTEM ADMINISTRATOR.....	8
SYSTEM ACTIVATION, USER PERMISSION AND PERMISSION ROLE.	8
ITEM SETUP.....	10
PAYMENT CATEGORY SETUP	15
LAB SETTING.....	16
IMAGING DEPARTMENT	19
MAIN PHARMACY, SUB STORE AND DISPENSING	21
ITEM RECORD, RECEIVING AND ISSUING.....	21
SUB STORE	28
DISPENSING	31
USER REGISTRATION, PERMISSION USER AND PERMISSION ROLE.....	33
PATIENT REGISTRATION, CORPSE REGISTRATION, AND INSURANCE VERIFICATIO... 35	
BILL PAYMENT	41
POINT OF SALE (POS).....	42
PARTIAL PAYMENT	43
SOCIAL WELFARE	44
DEBTOR	53
VITAL SIGNS	54
OUT PATIENT.....	55
CONSULTATION QUEUE, TREATMENT, DEATH CERTIFICATION AND DOCTOR PERFORMANCE	55
COLLECT SAMPLE.....	64
SAMPLE TESTING	65
RADIOLOGY/IMAGING INVESTIGATION	67

IN PATIENT.....	69
CONSULTATION QUEUE, TREATMENT, DEATH CERTIFICATION AND DOCTOR PERFORMANCE.....	69
WARD MANAGEMENT	79
FINANCIAL REPORT.....	86
ENVIRONMENTAL HEALTH.....	89
REPRODUCTIVE CHILD HEALTH (RCH).....	97
ANTI NATAL	97
LABOUR.....	98
POST NATAL	99
FAMILY PLANNING.....	100
PHYSIOTHERAPY.....	100
PHYSIOTHERAPY CLINIC	102
CARE AND TREATMENT CLINIC (CTC)	106
DENTAL	111
PAEDIATRIC.....	114
OBSETRICS & GYNACOLOGICAL	116
INTENSIVE CARE UNIT (ICU).....	119
ICU IS A MODULE WHICH DEALS WITH SERIOUSLY AFFECTED PATIENTS INCLUDING UNCONSCIOUSNESS, BLEEDING, FAILURE TO BREATHE AND STROKES.....	119
MORTUARY.....	121
CREATING AUTO BACKUP.....	123

CHAPTER ONE

SYSTEM OVERVIEW

Government of the United Republic of Tanzania has acknowledged the importance of the use of technology in the health facilities to make them work effectively and with efficiency by changing the entire hospital process from paper to paper less.

President's Office – Regional Administration and Local Government (PO-RALG) in collaboration with the Ministry of Health, Community Development, Gender, Elderly and Children, Kibaha Education Center (KEC) and the University of Mzumbe has come up with a software solution for hospital management named Government of Tanzania Hospital Management Information system (GoT-HoMIS).

GoT-HoMIS was initiated by the Kibaha Education Center (KEC) and Mzumbe University, GoT-HoMIS is developed using local expertise within the country.

Since its inception back in 2015. GoT-HoMIS has gone through version transitions and is now in v3.

GoT-HoMIS is an integrated information system that covers the aspects of Electronic Medical Record (EMR), management of MTUHA reports, Billing and recording, Laboratory Information system and inventory management.

Under EMR the system comprises of patient Registration, OPD, IPD, Operating theatre, Blood bank, Mortuary, Emergency and casualty.

Under MTUHA the system creates certain information and make the information mandatory during registration process so that a report can be sent to MTUHA.

For Billing and recording GoT-HoMIS does electronic payment through the use of Government Electronic Payment Gateway (GePG)

In Laboratory information system, the system automate the investigations requests and process involved in delivering the concerned department of the health facility

Under inventory management GoT-HoMIS provides functionality for requisition of medical supplies, purchase of items, stock management, automatic reorder level settings, online request for stock from main store to sub-store and dispensing points. The system control medical flow from MSD to respective patient.

CHAPTER TWO

2.1. System requirements.

The hardware and software requirements specifications enlist necessary requirements that are required to accomplish the process of system installation. Any system installation needs a conducive environment for its successful installation. Before installing a system, system requirements needs to be available in order to ease the installation process.

Before installing GoT-HoMIS there must be the following pre-requisites

Server Software Requirements:

GoT-HoMIS requires a few software on a server machine for it to operate smoothly. Although the system can be installed and run on a normal desktop/laptop computer with decent specifications, a Health Facility shall require a “server” dedicated to host the system in the facility Local Area Network (LAN). The following are software requirements on the server

- i. Modern Server Operating system (Linux/Window)
- ii. Web Server:- Apache
- iii. PHP Engine
- iv. MySQL Database (This and the above two can all be installed once by the XAMPP/LAMPP package)
- v. An editor on Windows platform (Recommended Notepad++)
- vi. PHP Dependence Manager (Composer)

Server Hardware requirements

- i. RAM at least 8GB
- ii. Hard disk at least 1 Terabyte
- iii. Internet Connection

Client Software Requirements:

Since GoT-HoMIS is a web based software, the only software required on the client is an up to date Chrome Browser.

Client Hardware Requirements:

- i. At least 2GB RAM on Clients computers

- ii. Receipt Thermal printer (Preferably Epson ...)
- iii. (Small sticker) Barcode printer
- iv. Barcode reader

2.2 Installation

The installation process is as follows;

- i. Install XAMPP
- ii. Install browser e.g chrome
- iii. Install notepad ++
- iv. Install composer
- v. Copy folder containing GoT-HoMIS V3 and paste it to C:\xampp\htdocs\got_homis_v3
- vi. Open terminal/CMD
 - Change directory to root i.e cd /
 - Then go to xampp/mysql/bin

```
C:\Windows\system32\cmd.exe - mysql -u root -p
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.
C:\Users\hp>cd /
C:\>cd xampp
C:\xampp>cd mysql
C:\xampp\mysql>cd bin
C:\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 2
Server version: 10.1.19-MariaDB mariadb.org binary distribution
Copyright (c) 2000, 2016, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MariaDB [(none)]>
```

- Create database

```
MariaDB [(none)]> create database got_homis;
Query OK, 1 row affected (0.00 sec)
MariaDB [(none)]>
```

- vii. Make sure xampp is turned on
- viii. Go to htdocs, open the folder containing the database, go to .env file and edit it with notepad++, then change the database name to ensure it is similar to the name of a database you created.
- ix. Configure and clear cache. The cache is cleared and configured as follows;

```
C:\Users\hp>cd/  
C:\>cd xampp\htdocs\got_homis_live  
C:\xampp\htdocs\got_homis_live>php artisan config:cache
```

x. Database Migration and Seeding

- Database Migration is the process of creating the database schema on the database name created in step (vi) above.
- Database seeding is a simple way to add initial data sets into your database.

Database Migration steps:

```
C:\Windows\system32\cmd.exe  
Microsoft Windows [Version 6.3.9600]  
(c) 2013 Microsoft Corporation. All rights reserved.  
C:\Users\hp>cd/  
C:\>cd xampp  
C:\xampp>cd htdocs  
C:\xampp\htdocs>cd got_homis_live  
C:\xampp\htdocs\got_homis_live>php artisan migrate
```

Press enter

Database seeding steps:

Once migration is done, seed the database as follows;

```
C:\Windows\system32\cmd.exe  
Microsoft Windows [Version 6.3.9600]  
(c) 2013 Microsoft Corporation. All rights reserved.  
C:\Users\hp>cd/  
C:\>cd xampp  
C:\xampp>cd htdocs  
C:\xampp\htdocs>cd got_homis_live  
C:\xampp\htdocs\got_homis_live>php artisan db:seed
```

Press enter

Port assigning and virtual host declaration

If apache cannot be started on the default port (80), assign new port numbers as follows:

Open the folder; C:\xampp\apache\conf

Under config, open *httpd.conf* with Notepad C++ then add or edit port numbers under the Port Listening configuration part.

For example

```
58 Listen 80  
59 Listen 7070
```

Assign new port number

Then open folderExtra: C:\xampp\apache\conf\extra

- vi. Edit *httpd-vhosts.conf* to declare a *virtual host* as illustrated from line 36 to 42.

For example

```
36 <VirtualHost *:7070>
37     ServerAdmin got-homis@tamisemi.go.tz
38     DocumentRoot "C:/xampp/htdocs/GoT-HoMIS/public"
39     ServerName localhost:7070
40     ##ErrorLog "logs/dummy-host2.example.com-error.log"
41     ##CustomLog "logs/dummy-host2.example.com-access.log" common
42 </VirtualHost>
```

Line 36 - 42 - Virtual Host with listening port number 7070.

Line 37: - Administrator Server email address.

Line 38: - Folder name where system file for the domain name are Stored.

Line 39: - Local IP Address of the server where the system will be launched.

Line 40: - Contains a record of critical errors that occurred during the
Server operation.

Line 41: - Create custom domains for development in XAMPP.

- i. Restart apache and make sure the port numbers you have assigned are visible on the Apache Service port numbers on the XAMPP panel**

CHAPTER THREE

3.1 Introduction to (GoT – HoMIS) Modules

Each module and their functions available in GoT-HoMISv3 will be explained in details in this chapter.

A module is a software component or part of a program that contains one or more routines. One or more independently developed modules make up a complete program. Modules are categorized according to the functionalities. User role can be assigned/removed to a user according to the user privileges.

GoT-HoMIS consist of various users and their modules as follows;

Main Module	Description	User Role	Module Components
System Administration	Used to handle various settings and user managements	System Administrator	<ul style="list-style-type: none">• DB Setup• Item setup• Facility setup• Users list• Payment category setup
Main Pharmacy	Register and distribute items	pharmacist	<ul style="list-style-type: none">• Main pharmacy
Sub Store		Pharmacist	<ul style="list-style-type: none">• Sub store
Dispensing	Dispense items	Pharmacist	<ul style="list-style-type: none">• Dispensing
Cashier	Confirm payments	Cashier	<ul style="list-style-type: none">• Bill payment• POS
Accountant	Perform financial functions related to; accuracy, recording, analysis and presentation	Accountant	<ul style="list-style-type: none">• Financial report
Social welfare	give exemption	Social	<ul style="list-style-type: none">• Social welfare
Mortuary		Mortuary	<ul style="list-style-type: none">• Mortuary

Lab technologist	Assist physician in diagnosis by perform tests	Lab technologist	<ul style="list-style-type: none"> • Lab setting • Sample collection • Lab testing
Nurse		Nurse	<ul style="list-style-type: none"> • Ward management • Nursing care • Vital sign • Theatre • Anti natal • Post natal • Labour • Family planning
Doctor	Care and safety of patients	Doctor	<ul style="list-style-type: none"> • Inpatient • Outpatient
Hospital Secretary		Hospital Secretary	<ul style="list-style-type: none"> • Environmental health
Hospital Administrator		Hospital Administrator	<ul style="list-style-type: none"> • Debtor
Receptionist		Receptionist	<ul style="list-style-type: none"> • Reception • Emergency registration
Radiology		Radiologist	<ul style="list-style-type: none"> • Digital Radiography • Imaging department
Anaesthesia		Anaesthet	<ul style="list-style-type: none"> • Anaesthesia
Mtuha		Mtuha report	<ul style="list-style-type: none"> • Mtuha report
Dental		Dentist	<ul style="list-style-type: none"> • Dental
Eye		Eye	<ul style="list-style-type: none"> • Eye
Paediatric		Paediatric	<ul style="list-style-type: none"> • Paediatric

Reproductive Child Health(RCH)		RCH nurse	<ul style="list-style-type: none"> • Reproductive Child Health(RCH)
Orthopedic		Orthopedic	<ul style="list-style-type: none"> • Orthopedic

SYSTEM ADMINISTRATOR

System Activation, User permission and Permission role.

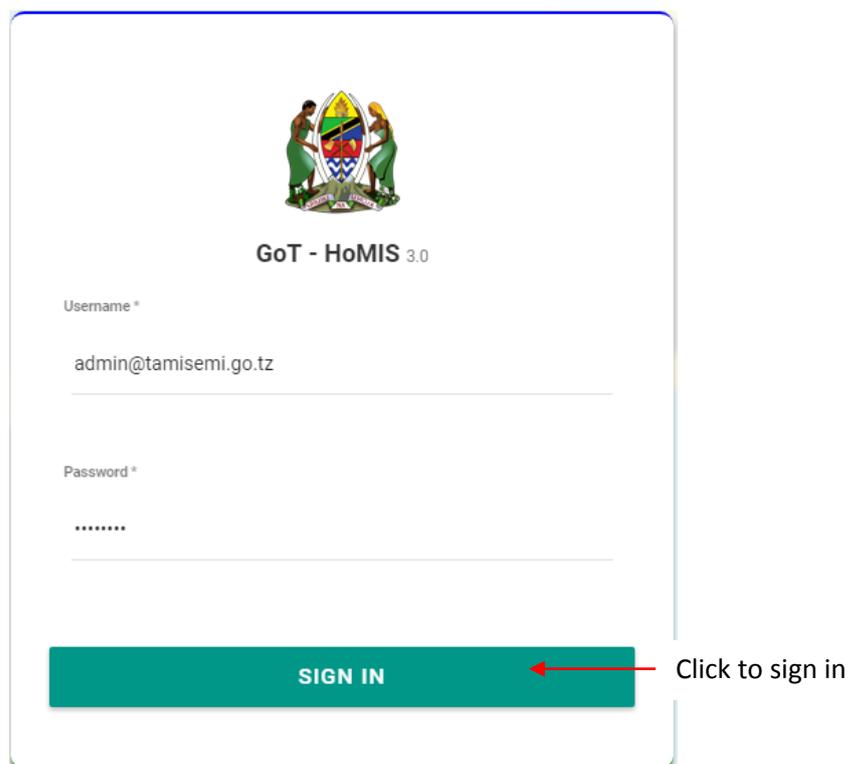
Super user/super admin is the person in charge of all other users in the system. By default, the user who signs up first and creates the organization is the Super Administrator. The Super Administrator has the utmost privileges across the entire organization. Super user is capable of: Change the role of a User to Admin and vice versa. View, manage or Change the details for any organization. There can be only one Super Admin in the entire organization.

Thereafter, Administrator must login in to the system with the valid credentials. By Default **username** = admin@tamisemi.go.tz and **password** = 12345678. After login successfully Administrator activate system Views. System views are MySQL views which control different logics and process in the system. To activate system views click on *DB Setup* then open system activation Tab, on system activation Tab click the button **ACTIVATE**. As shown below.

Note:

System database activation is compulsory. It is a very important step because it enable items sales and user details account to be activated

Figure 1.Administrator login page



GoT - HoMIS 3.0

Username *

admin@tamisemi.go.tz

Password *

SIGN IN ← Click to sign in

Figure 2. DB Setup

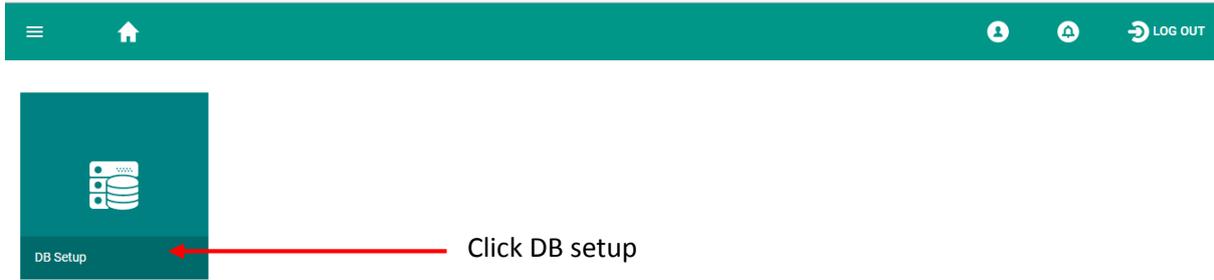


Figure 3. System activation

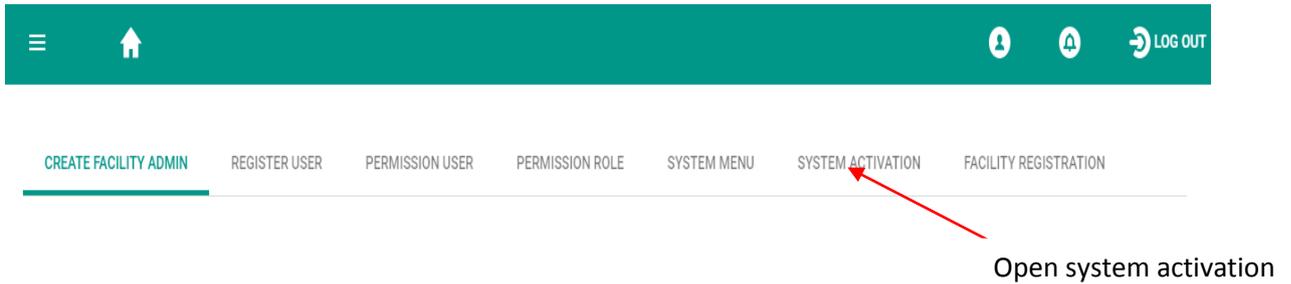
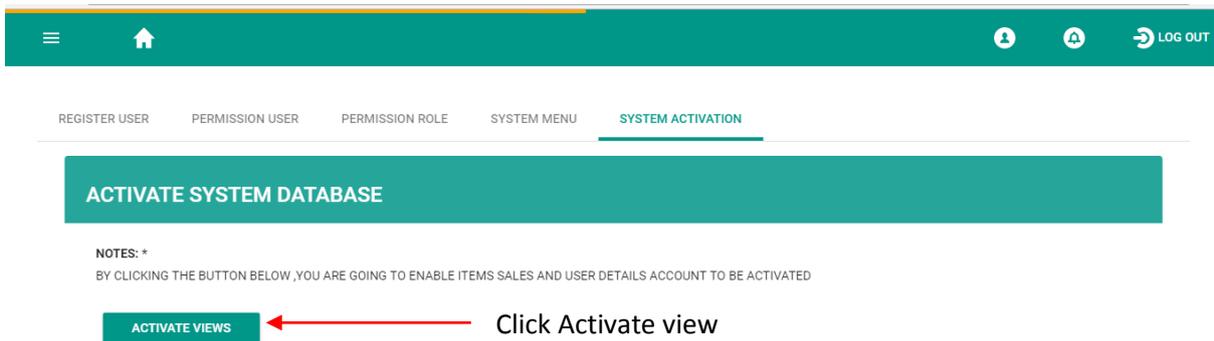


Figure 4. Activate view



System will show the loading bar with progress on the top of the page. After finishing the activation system will show “**SYSTEM DABABASE ACTIVATED**”.

NOTE: System views must be activated only once.

Afterwards, the administrator will be able to formulate the Facility. For the facility to be formulated, the administrator must open the DB Setup module, click on facility registration tab and register the facility details: Facility code, name, Address, email, phone number, facility type, council and region.

Figure 5. Facility registration

Enter facility Code: 1010

Enter facility Name: ISANZU

Enter facility Address: P.O.BOX 2324

Enter facility Email: isanzu@dodma.go.tz

Enter facility Phone Number: 0262340989

DISPENSARY

Choose Council: DODOMA

Enter Region: DODOMA

REGISTER ← Click to register facility

ITEM SETUP

Item setup enables users to *register* all items which are available in a facility.

Item setup consist of 8 modules which are;

1. ITEM PRICE

This sub-module includes the price of all items of each payment categories. After creating the price of items. The created items with their prices are listed on item priced list.

Figure 6.item setup

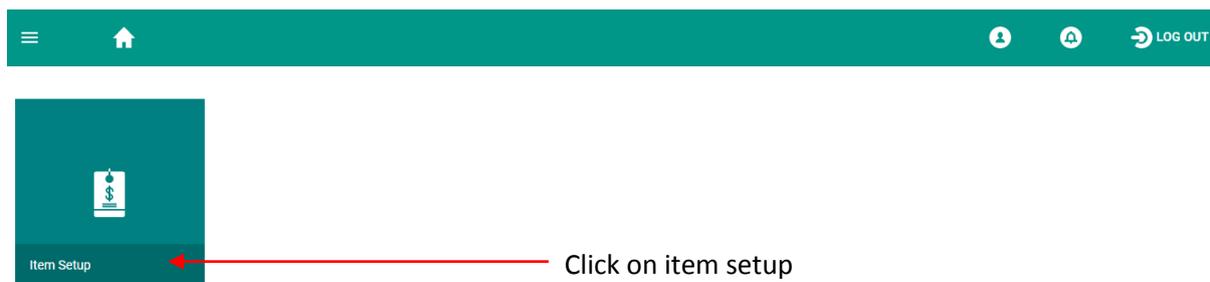


Figure 7. Create item price

ITEM PRICED LIST

CREATE ITEM PRICE

Search Item
Gliclazide

Enter REFERRAL price
200

Enter NHIF price
150

Enter HOSPITAL SHOP price
300

Enter Self Referral price
250

Enter NSSF price
180

Enter TPDF price
200

Figure 8.item price list

ITEM PRICED LIST

Search Item [VIEW ALL](#)

No	Item Name	Price	Category	Starting Financial Year	Ending Financial Year
1	Gingivectomy Each Tooth	20000	BETHEL	2017-09-01	2020-12-31
2	Gingivectomy Each Tooth	15000	REFERRAL	2017-09-01	2020-12-31
3	Glibenclamide	130	NHIF	2017-07-01	2018-06-30
4	Gliclazide	300	NHIF	2017-07-01	2018-06-30

REGISTRATION

Register the item by entering the item name and choose its corresponding department.

Search the item name and choose the item category in order to map the registered item to a correct item category.

Search the item and choose the item sub category.

After items registration the registered items with the sub departments are listed and the items with their departments are listed on item list.

The system enable **edit** of registered items on item setup.

Figure 9. Item registration

ITEM PRICE **REGISTRATION** ITEM CATEGORY EXEMPTION STATUS SUB DEPARTMENTS RECEPTION SERVICES DIAGNOSIS REGISTRY

ITEMS LIST

ITEMS WITH SUB DEPARTMENTS LIST **Open registration**

ITEM REGISTRATION

Enter Item Name
Specialist consultation

Department
OUT PATIENT DEPARTMENT (OPD)

REGISTER **Register item**

Figure 10. Item mapping

ITEM PRICE **REGISTRATION** CHANGE ITEM CATEGORY ITEM CATEGORY EXEMPTION STATUS SUB DEPARTMENTS RECEPTION SERVICES DIAGNOSIS REGISTRY

ITEMS LIST

ITEMS WITH SUB DEPARTMENTS LIST

LIST

ITEM REGISTRATION

ITEM MAPPING

ITEM MAPPING

Search Item
Gliclazide Enter Item Code(option)

Item Category
Medication Enter Item sub category

Figure 11. Item sub-department registry

ITEM PRICE **REGISTRATION** CHANGE ITEM CATEGORY ITEM CATEGORY EXEMPTION STATUS SUB DEPARTMENTS RECEPTION SERVICES DIAGNOSIS REGISTRY

ITEMS LIST

ITEMS WITH SUB DEPARTMENTS LIST

LIST

ITEM REGISTRATION

ITEM MAPPING

ITEM SUB DEPARTMENT REGISTRY

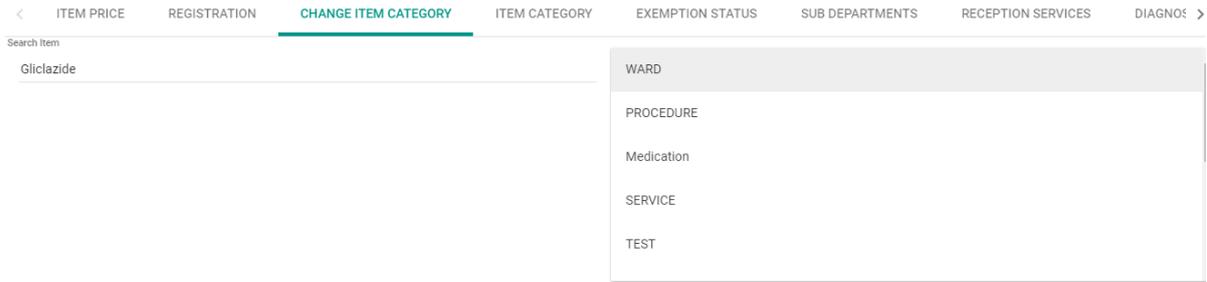
ITEM SUB DEPARTMENT REGISTRY

Search Item Choose Sub department
Gliclazide PHARMACY **SAVE**

CHANGE ITEM CATEGORY

Items assigned with incorrect categories are edited here by searching an item and choosing its correct category.

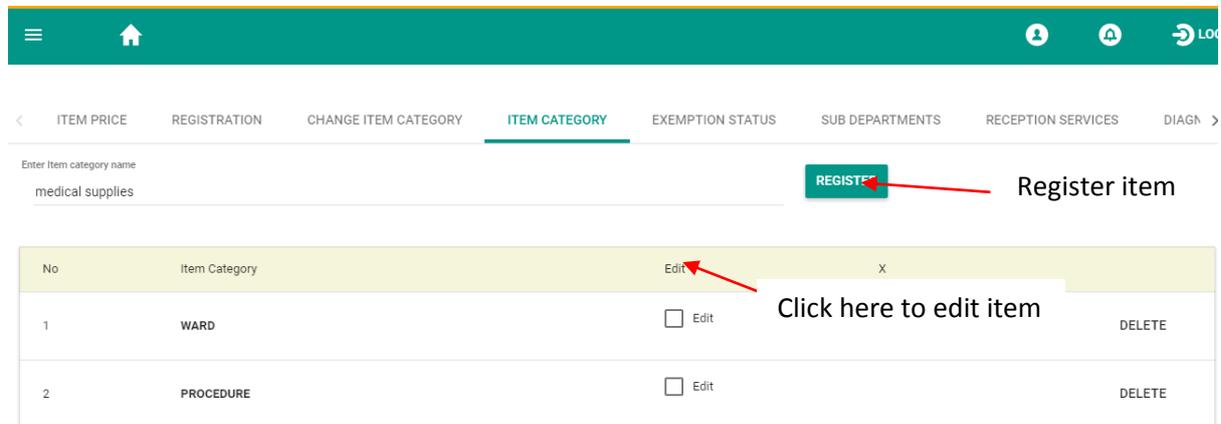
Figure 12. Change item category



ITEM CATEGORY

Item categories are registered and after registration, the registered items are listed below. The system gives an option to edit and to delete the item.

Figure 13. Item category



EXEMPTION STATUS

Items in a facility have different status, some items are considered as exempted items and others do not have exemption, thus requires a client to make payment for such an item.

System allows the search of items and assign it as an exemption item and to remove it from exemption item list.

Figure 14. Exemption status

#	ITEM	Remove
1	General Practitioner Consultation (In-Patient)	Remove

Setting item which has no

Setting item which has exemption

SUB DEPARTMENT

It enables sub departments to be registered and after registration the registered sub departments are listed at the right side of the page.

Sub departments are important for measuring performance and for report preparation.

Figure 15. Sub department registration

s/n	Sub Department Name
1	Haematology
2	Microbiology
3	Clinical Chemistry
4	Serology
5	Parasitology
6	X-RAY

RECEPTION SERVICES

It gives an option to search and to save services that needs to be viewed by the receptionist during patient/client registration.

Figure 16. Reception services

#	ITEM	Remove
1	General Practitioner Consultation (In-Patient)	Remove

[SAVE](#) Click serve to add reception services

DIAGNOSIS REGISTRY

It allows the registration of diagnosis and diagnosis code. After registration these diagnosis are viewed by the doctor and the doctor is able to assign these diagnosis to a patient.

Figure 17. Diagnosis registration

Enter Diagnosis
MALARIA [SAVE](#)

Enter Code
084

PAYMENT CATEGORY SETUP

Payment category is a module responsible for setting the payment sub-categories from User fee, Insurance or Exemption categories. After registering the payment subcategories, those payments will be listed in the patient payment category list

Figure 18. payment category setup

[Payment Category Setup](#) Click to open payment category setup

Figure 19. Payment sub-category

The screenshot shows a web interface for registering a payment sub-category. At the top, there is a teal navigation bar with a home icon, a user profile icon, a notification bell, and a 'LOG OUT' button. Below the navigation bar, there are two tabs: 'PATIENT CATEGORY' (active) and 'PATIENT CATEGORY LIST'. The main form area contains two input fields: 'Patient Category Name' with a dropdown menu showing 'User Fee', and 'Payment Sub Category Name' with a text input containing 'referral'. Below these fields is a green 'Register' button. A red arrow points from the text 'Click here to register payment subcategory' to the 'Register' button.

LAB SETTING

Lab setting is a module in the system which is used for registration of lab items. Lab setting consist of:

Figure 20. Lab setting



EQUIPMENTS

Under this sub module is where the lab equipment's are registered with the equipment status, reagent to be used and the sub department where that investigation will be carried. The equipment status is the determinants of whether the test will be taken or not if the status of an equipment is: Equipment/Reagent is OK, test can be done that means the test will be done but if the status is: Equipment has malfunctioned, test cannot be done, that means the test cannot be done.

Figure 21. Equipment registration

The screenshot shows a web interface for equipment registration. At the top, there is a teal navigation bar with a home icon, a user profile icon, a notification bell, and a 'LOG OUT' button. Below the navigation bar, there are five tabs: 'EQUIPMENTS' (active), 'LAB TESTS', 'TESTS PRICES', 'ALLOCATE TEST', and 'USERS CONFIGURATIONS'. The main form area contains three input fields: 'Equipment Name' with a text input containing 'Analyser', 'Equipment status' with a dropdown menu showing 'Equipment/Reagent is OK, test can be done', and 'Reagent to be used' with a dropdown menu showing 'Reagent one'. Below these fields is a green 'SAVE' button. A red arrow points from the text 'Click to save the Equipment' to the 'SAVE' button.

LAB TESTS

This part is where the test panel and its components as well as the single test are registered. Test panel is the group of tests all taken by a single equipment while single test is a test taken by a single equipment. N.B. The component of panel can be registered as a single test

Figure 22. Test panel registration

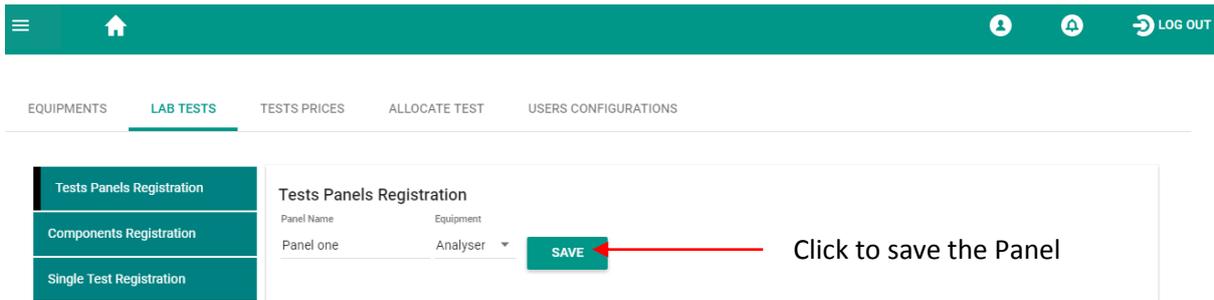


Figure 23. Component registration

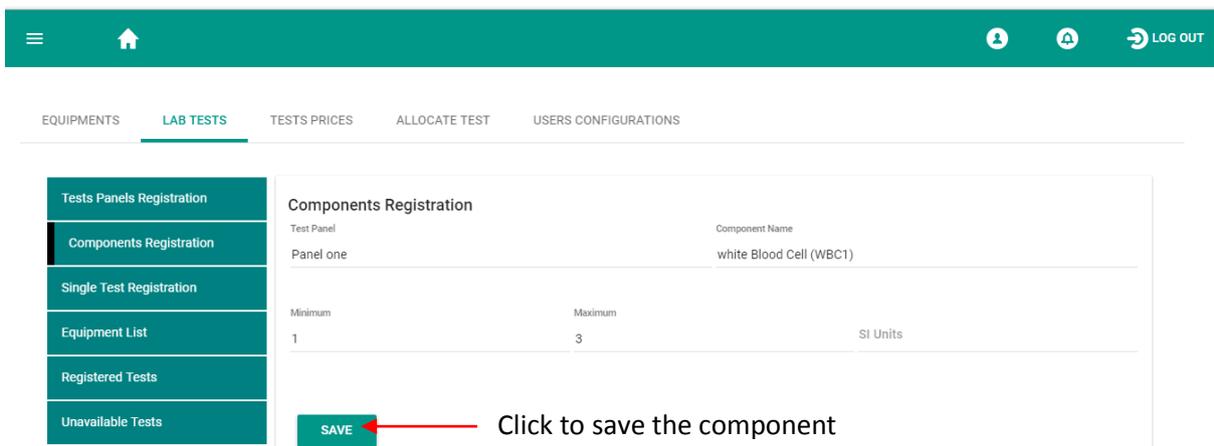
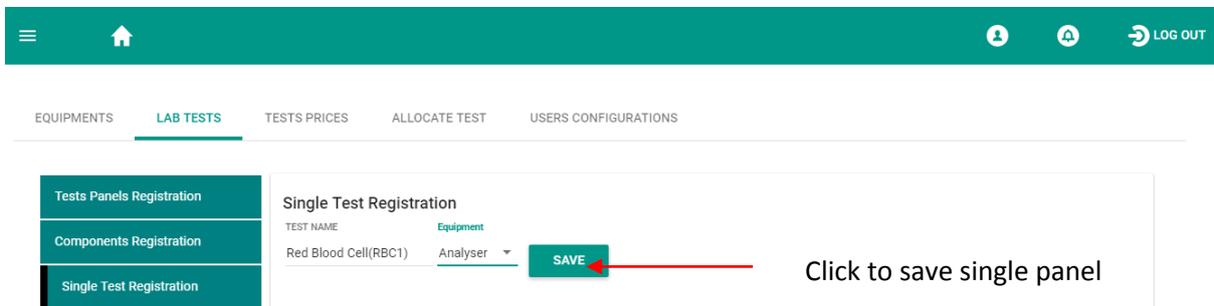


Figure 24. Single panel registration



Lab test sub module contains List of all registered equipment's, requested tests and unavailable tests are displayed under this sub module.

Figure 25. Equipment list

Click to view list of registered equipment's

Figure 26. Registered test

Search registered equipment

TEST PRICE

The price of all registered lab tests are set here, the Prices are set corresponding to the facility user payment categories.

Figure 27. Test price

Click to set price to test

ALLOCATE TEST

This sub module allow the registered lab test to be searched, assigned an equipment and a test category.

Figure 28. Test allocation

EQUIPMENTS LAB TESTS TESTS PRICES **ALLOCATE TEST** USERS CONFIGURATIONS

Search for any Lab test to set price
Panel one

Equipment Test Category Component Name
Analyser Panel Test white Blood Cell (WBC1)

Minimum Maximum SI Units
1 3

SAVE

Allocate test is also used to set the item price if the price was not set.

USER CONFIGURATION

It is where the access is given to a user responsible with a certain sub category so that he/she will be able to view all the lab tests sent to that sub-department.

Figure 29. User Configuration

JAMHURI YA MUUNGANO WA TANZANIA
WIZARA YA AFYA NA MAENDELEO YA JAMII JINSIA, WAZEE NA WATOTO

NO LIST AVAILABLE PLEASE ASSIGN BELOW

Search Lab Technologist *
Super Admin

SAVE Search user to give access CANCEL

IMAGING DEPARTMENT

This module is responsible for registering imaging items to be viewed by the doctor during the diagnosis.

DEPARTMENTS

Click on **Floating Button** to open the imaging department set up. Register **sub department** in the radiology/imaging department by selecting the department name and write the corresponding sub department.

The list of all registered sub departments are listed under this sub category.

Click floating button to open the imaging department setup



Figure 30. Sub department registration

Sub-Department Registration

SUB-DEPARTMENT REGISTRATION SUB-DEPARTMENTS LIST

Register Sub-Department

Department name Sub-department Name

IMAGING x-Ray

REGISTER Click to register sub department

CANCEL

Figure 31. Sub department list

Sub-Department Registration

SUB-DEPARTMENT REGISTRATION SUB-DEPARTMENTS LIST

Department Name	Lastly Updated	Switch to edit Sub-Department
X-RAY	2017-08-09 10:31:14	<input type="checkbox"/>
ULTRASOUND	2017-08-09 10:31:47	<input type="checkbox"/>

Switch to edit sub department

EQUIPMENT REGISTRATION AND SERVICE CONFIGURATION

Equipment registration

Write the equipment name and search its sub department, write the description of that equipment and choose the equipment status. The equipment status is the determinant of whether a test can be conducted or not depending on whether Equipment is OK test can be done or Equipment has malfunctioned, test cannot be done.

Figure 32. Equipment registration

The screenshot shows a web application window titled "Equipment and Service Registration" with a close button (X) in the top right corner. Below the title bar, there are two tabs: "EQUIPMENT REGISTRATION" (which is active and underlined) and "SERVICE CONFIGURATION". The main content area is titled "Register Equipment". It contains a table with three columns: "Equipment name", "Sub-department Name", and "Description". The first row of the table has the values "ultrasound1", "X-RAY", and "Description" respectively. Below the table, there is a "Status" section with the text "Equipment is OK test can be done". At the bottom left, there is a green "REGISTER" button, and at the bottom right, there is a "CANCEL" button.

Equipment name	Sub-department Name	Description
ultrasound1	X-RAY	Description

Status
Equipment is OK test can be done

REGISTER CANCEL

SERVICE CONFIGURATION

Search service that was registered at item setup, choose sub department name and equipment name then register the service.

Figure 33. Service configuration

The screenshot shows the same "Equipment and Service Registration" window, but with the "SERVICE CONFIGURATION" tab active and underlined. The main content area is titled "Item Configuration". It contains a table with three columns: "Service name", "Sub-department Name", and "Equipment Name". The first row of the table has the values "X-Ray (Chest) - PA", "X-RAY", and "ultrasound1" respectively. Below the table, there is a "REGISTER" button at the bottom left and a "CANCEL" button at the bottom right.

Service name	Sub-department Name	Equipment Name
X-Ray (Chest) - PA	X-RAY	ultrasound1

REGISTER CANCEL

Registered equipment's in the imaging/ radiology department, services registered and the department reports are viewed here.

N.B. Services must be registered on Item setup for them to be searched in the imaging department.

MAIN PHARMACY, SUB STORE AND DISPENSING

Item record, receiving and issuing

PHARMACY

Pharmacy is a module in a system which is responsible for managing and dispensing drugs. It is the module which focus on safe and effective medication use. The system allow Pharmacist to inform patients in all aspects of their medicine including recommending types as well as administration route and dosages. Hospital pharmacist are responsible for monitoring the supply of all medicines used in the hospital and are in charge of purchasing, dispensing and quality testing their medication stock.

Pharmacy contains Main pharmacy, Sub store and Dispensing.

MAIN STORE (MAIN PHARMACY)

Main pharmacy consist of, setting Requisitions, Item record, receiving and issuing.

Figure 34. Main pharmacy



SETTING

The system is capable of creating store types (Main store, Sub store and Dispensing), to create vendors, and to create invoices as per invoice received and Item record

Figure 35. Store creation

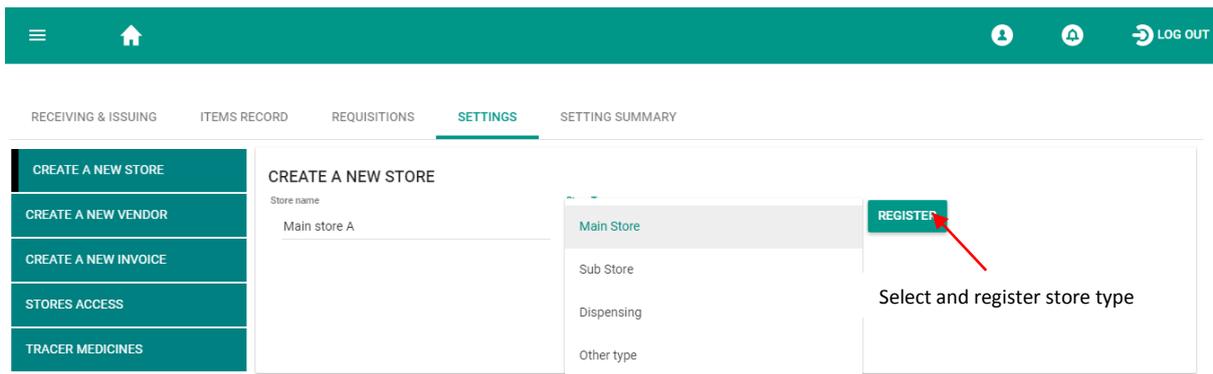


Figure 36.vendor creation

The screenshot shows the 'CREATE A NEW VENDOR' form within the 'SETTINGS' menu. The form includes fields for Vendor Name (filled with 'vendor1'), Vendor Address (filled with 'P.o.box 2324'), Vendor phone number (filled with '026 2458356'), and Vendor Contact Person (filled with '0767887755'). A 'REGISTER' button is highlighted with a red arrow, and the text 'Register vendor' is displayed next to it. The left sidebar contains menu items: CREATE A NEW STORE, CREATE A NEW VENDOR, CREATE A NEW INVOICE, STORES ACCESS, and TRACER MEDICINES.

Figure 37.New invoice

The screenshot shows the 'CREATE A NEW INVOICE' form. The 'Invoice number' field is filled with '28' and the 'Vendor Name' dropdown is set to 'vendor1'. A 'SAVE' button is highlighted with a red arrow, and the text 'Save invoice number' is displayed next to it. The left sidebar contains menu items: CREATE A NEW STORE, CREATE A NEW VENDOR, CREATE A NEW INVOICE, STORES ACCESS, and TRACER MEDICINES.

Store access are given to responsible users of a certain store by searching a user and assign the store access.

Figure 38. Store access

The screenshot shows the 'STORES ACCESS' configuration page. At the top, there is a search bar with the text 'Search patient and give access' and a red arrow pointing to it. Below the search bar, the email address 'Dafina0718998877 dafina@mtmeru.go.tz' is displayed. The page is divided into two main sections: 'STORE PER USER CONFIGURATION' and 'STORE GIVEN ACCESS'.
STORE PER USER CONFIGURATION

No	Store Name	Store Type	Check/Tick
1	MAIN STORE	Main Store	<input checked="" type="checkbox"/>
2	MAIN STORE PHARMACY	Main Store	<input type="checkbox"/>
3	Main store A	Main Store	<input type="checkbox"/>
4	SUB STORE	Sub Store	<input type="checkbox"/>

STORE GIVEN ACCESS

No	Store Name	Check/Tick
1	Main store A	REMOVE
2	sub store A	REMOVE
3	Dispensing A	REMOVE

The left sidebar contains menu items: CREATE A NEW STORE, CREATE A NEW VENDOR, CREATE A NEW INVOICE, STORES ACCESS, and TRACER MEDICINES.

This part allows the tracer medicine to be registered by searching the specific items to be traced and the status of that items on whether the item is available or not available in the facility.

RECEIVING & ISSUING ITEMS RECORD REQUISITIONS **SETTINGS** SETTING SUMMARY

CREATE A NEW STORE
CREATE A NEW VENDOR
CREATE A NEW INVOICE
STORES ACCESS
TRACER MEDICINES

TRACER MEDICINES

Search Item Name: Acetylsalicylic Acid/Aspirin/Adripin Status: Available In This Facility

REGISTER ADD TO LIST Add items to list

item(s) selected 1

Item	x
MAGNESIUM SULPHATE 500MG/ML 10ML INJ	Remove

Figure 39. Tracer medicine

RECEIVING & ISSUING ITEMS RECORD REQUISITIONS **SETTINGS** SETTING SUMMARY

CREATE A NEW STORE
CREATE A NEW VENDOR
CREATE A NEW INVOICE
STORES ACCESS
TRACER MEDICINES

TRACER MEDICINES

Search Item Name: MAGNESIUM SULPHATE 500MG/ML 10ML INJ

REGISTER Register item and its status

---status---
Available In This Facility
Not Available In This Facility

ADD TO LIST

REQUISITIONS

In requisition is where the incoming requisition can be viewed and new requisition is created.

The system allows all requisitions to be added on the list then the items are saved at once.

Figure 40. Outgoing Requisition

RECEIVING & ISSUING ITEMS RECORD **REQUISITIONS** SETTINGS SETTING SUMMARY

INCOMING REQUISITIONS
CREATE REQUISITIONS

CREATE REQUISITIONS

Item Name: PARACETAMOL MPYA Quantity Requesting: 50 Request To: Main store A Request From: Main store B

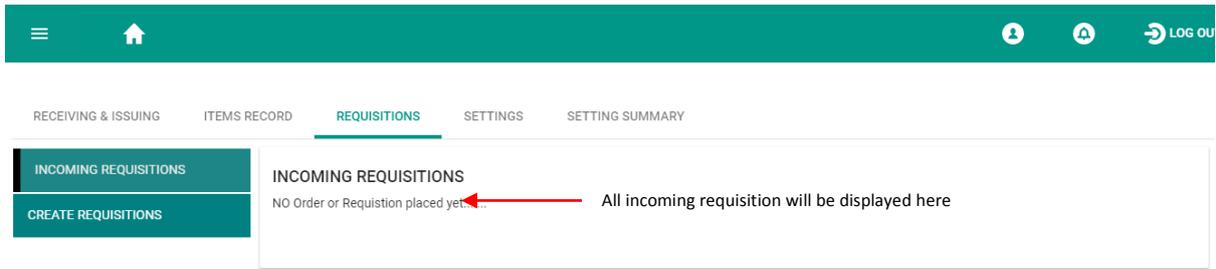
ADD TO LIST Add all requisitions

#	Name	Form	To	Quantity
1	PARACETAMOL MPYA		Main store A	50

Remove

SAVE

Figure 41. Incoming requisition



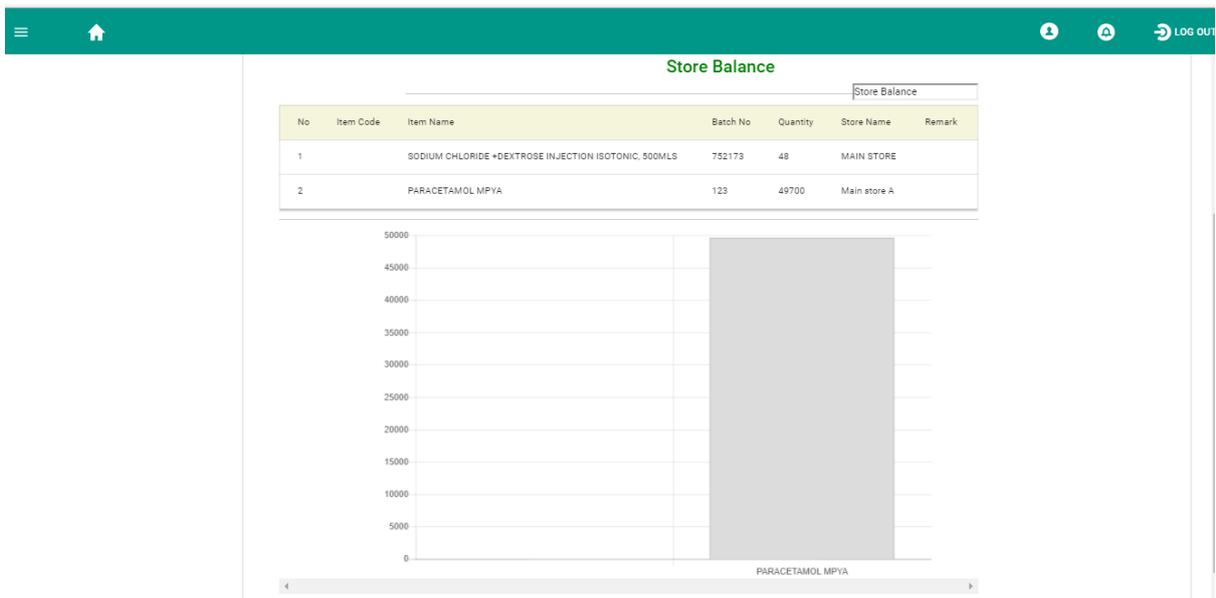
ITEM RECORD

Store records, received and issued items, tracer medicine reports and the expired items are found under this sub module.

Store record

The system gives user an option to search a specific item or to view all stored item and view the store balance, to look at detailed report, reorder level and tracer medicine.

Figure 42. Store records



Detailed report describe all details of an item

Figure 43. Detailed report

RECEIVING & ISSUING **ITEMS RECORD** REQUISITIONS SETTINGS SETTING SUMMARY

STORE RECORDS
RECEIVED AND ISSUED
TRACER MEDICINE
EXPIRED ITEMS

STORE RECORDS

Quick Search.....

Jina la Kifuo: MT MERU Wilaya : ARUSHA Mkoa : ARUSHA

Detailed Report

Detailed Report

Batch No	Quantity	Cost Price	Store Name	Store Type	Invoice	Vendor Name	Expiry Date	Received Date
123	49700	TZS 0.00	Main store A	Main Store	28	vendor1	2018-06-01	
123	50000	TZS 100.00	Main store A	Main Store	28	vendor1	2018-06-01	2017-10-01
500MLS	752173	48	TZS 0.00	MAIN STORE	Main Store	450796	MSD	2020-02-29

Scroll to view all details of an item

Figure 44. Received/ issued items

RECEIVING & ISSUING **ITEMS RECORD** REQUISITIONS SETTINGS SETTING SUMMARY

STORE RECORDS
RECEIVED AND ISSUED
TRACER MEDICINE
EXPIRED ITEMS

RECEIVED AND ISSUED

Quick Search.....

Received record Issued Record

2017-10-01 06:50:00 2017-10-10 06:50:00 SEARCH

Jina la Kifuo: MT MERU Wilaya : ARUSHA Mkoa : ARUSHA

ITEMS RECEIVED LIST

s/n	Item	Quantity	Store	Date
1	PARACETAMOL MPYA	50000	Main store A	2017-10-07 16:27:24

RECEIVING AND ISSUING

Main store receive items from vendors and issuing items to sub store, dispensing or to another main store

Note: the system allows main store can issue items directly from main store to dispensing without passing to sub store.

The system gives an option to search specific items or to view all items by specifying the date, both for issued and received records.

RECEIVING & ISSUING ITEMS RECORD REQUISITIONS SETTINGS SETTING SUMMARY

ITEM RECEIVING

ITEM RECEIVING

ITEM ISSUING

ITEM RECEIVING

Enter Invoice number

New Invoice?

MSD Tick to register new invoice number

vendor1

Figure 45. Item receiving

RECEIVING & ISSUING ITEMS RECORD REQUISITIONS SETTINGS SETTING SUMMARY

ITEM RECEIVING

ITEM RECEIVING

ITEM ISSUING

ITEM RECEIVING

Search Item: PARACETAMOL MPYA

Choose Store Name: Main store A

Choose Invoice Number: 28

VENDOR NAME: vendor1

Select Transaction Type: Normal

Enter Batch Number: 123

Enter Remarks: remarks

New Invoice?

Add all the received items then save. The system automatically calculate total price of all items received.

RECEIVING & ISSUING ITEMS RECORD REQUISITIONS SETTINGS SETTING SUMMARY

ITEM RECEIVING

ITEM RECEIVING

ITEM ISSUING

ITEM RECEIVING

New Invoice?

Item_Name Batch_Number Quantity Unit Price Expiry Date

Enter Expiry Date yyyy-mm

ADD

#	Name	Store	Invoice	Remarks	Batch_#	Quantity	Unit_Price	Cost_Price	Expiry_Date	Received_date	
1	PARACETAMOL MPYA	Main store A	28	remarks	123	50000	100.00	5,000,000.00	2018-06-01	2017-10-01	Remove

SAVE

Figure 46. Item issuing

RECEIVING & ISSUING ITEMS RECORD REQUISITIONS SETTINGS SETTING SUMMARY

ITEM RECEIVING
ITEM ISSUING

ITEM ISSUING

Search Item Name Batch Number Quantity Transaction Type

ADD Add items to issue

#	Name	Form	To	Batch_#	Quantity	
1	PARACETAMOL MPYA	Main store A	Dispensing A	123	300	Remove

SAVE

RECEIVING & ISSUING ITEMS RECORD REQUISITIONS SETTINGS SETTING SUMMARY

ITEM RECEIVING
ITEM ISSUING

ITEM ISSUING

Item Name Batch Number
PARACETAMOL MPYA 123 Store Main store A

Available Quantity Issuing/Adjustment Quantity
50000 300

Transaction Type Issuing To Choose Targeted User To Received
Normal Dispensing A Dafina

ADD TO LIST Click to save added items

SUB STORE

Sub store is a module that handles the Requisition and issuing issues, Requisition process enable sub store to receive items or to order items from main store or another sub store where applicable. Sub store receives orders from dispensing or another sub store. Sub store issues items to the dispensing point.

Sub store consist of Requisitions, Items and item issuing

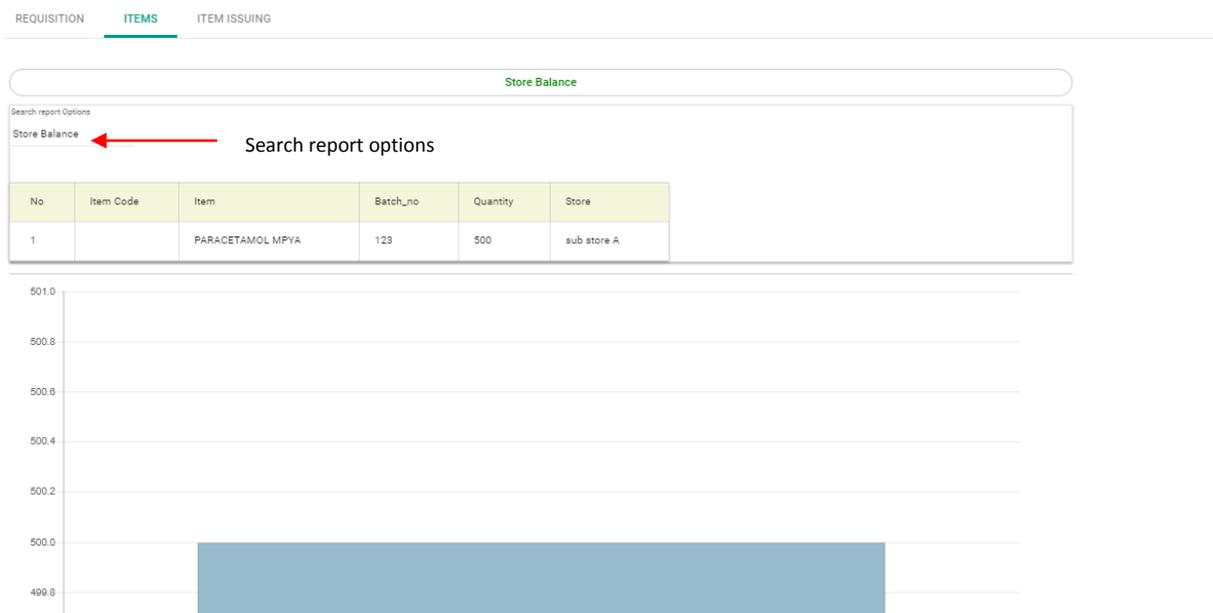
Figure 47. Sub store



Items

List the available items in sub store, system allows a user to search for report options.

Figure 48. Store balance



Item Issuing

The system allows user to choose the item to issue first then other issuing items are entered

Figure 49. Item searching

REQUISITION ITEMS **ITEM ISSUING**

Item Name

Search Item ← Search item to issue

[Choose item you want to issue](#)

Figure 50. Item issuing

REQUISITION ITEMS **ITEM ISSUING**

Item Name: PARACETAMOL MPYA

Batch Number: 123 sub store A

Issuing Quantity: 200

Transaction Type: Normal

Issuing To: Dispensing A

Choose Targeted User To Received: Dafina

ADD TO LIST ← Add all items to issue

#	Name	Form	To	Batch_#	Quantity	
1	PARACETAMOL MPYA	sub store A	Dispensing A	123	200	Remove

SAVE ← Save item issuing

Figure 51. Item requisition

REQUISITION ITEMS ITEM ISSUING

INCOMING REQUISITION

CREATE REQUISITION

CREATE REQUISITION

CREATE REQUISITION

Item Name: PARACETAMOL MPYA

Quantity Requesting: 500

Request To: Main store A

Request From: sub store A

ADD TO LIST

#	Name	Form	To	Quantity	
1	PARACETAMOL MPYA	sub store A	Main store A	500	Remove

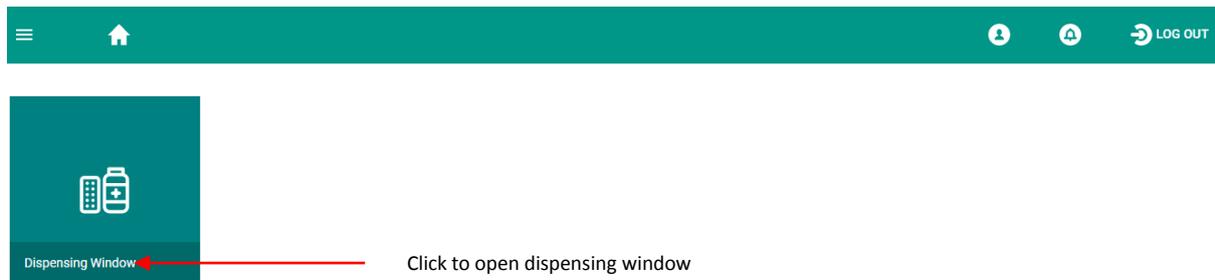
SAVE ← Click to save the requisition

DISPENSING

Dispensing is module that verifies client/patient prescriptions from doctors by either accepting it or rejecting it in case that prescription has some discrepancies. After verifying what the doctor has prescribe then the items are dispensed.

Dispensing consist of Items, dispensing, requisition, prescription verification

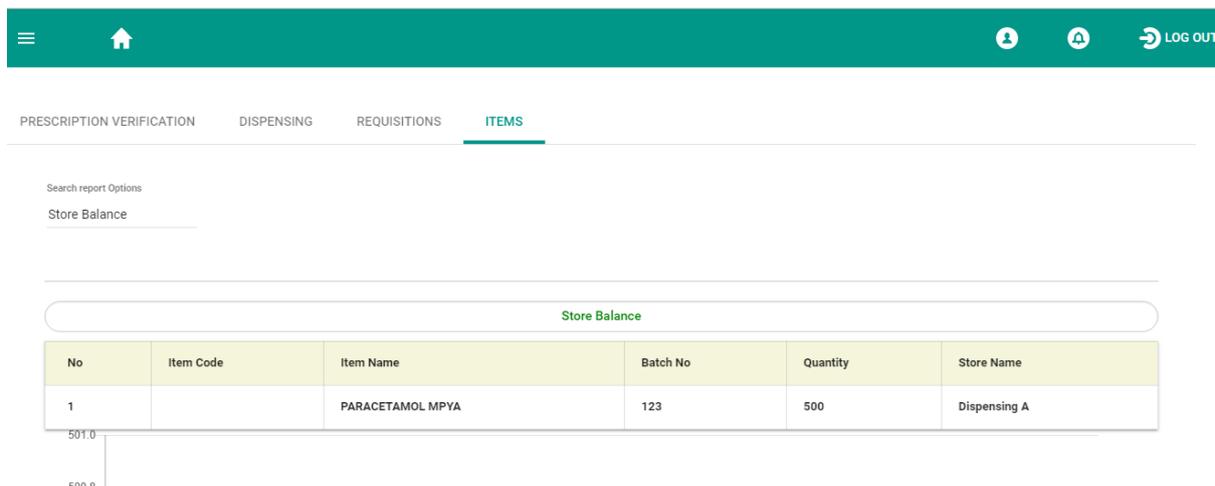
Figure 52. Dispensing window



Items

List a balance of all available items, the system enables user to search for research options such as store balance, detailed report and dispensed items.

Figure 53. Available items



Requisition

The system allows requisition to be sent from the from dispensing directly to main store and from dispensing to sub store as well as from one sub store to another sub store

Figure 54. Requisition creation

Item Name	Quantity Requesting	Request To	Request From
PARACETAMOL MPYA	50	Main store A	Dispensing A

ADD TO LIST Add items to list

#	Name	Form	To	Quantity	
1	PARACETAMOL MPYA	Dispensing A	Main store A	50	Remove

SAVE Click to save

DISPENSING

Dispensing

It is where the patient prescription are sent by the doctor are displayed.

The system allows pharmacist to accept prescriptions or to reject prescriptions back to the doctor if they happen to be inappropriate.

On dispensing, pharmacist decide the amount of medicine/other items to prescribe a patient according to the patient rank and automatically the system calculates the price of those items.

Figure 55. Dispensing

Type medical record number Enter patients MRN

NO Order or Requisition placed yet..... Requisitions will be listed here

Prescription verification

It is where the prescriptions are verified after payment.

USER REGISTRATION, PERMISSION USER AND PERMISSION ROLE.

System has many roles that need to be performed by users in their daily working habits. Every user in the system has a dedicated work that will be performed in the system.

User Registration

On user registration, it is where users of a facility are registered, the user is given the default user name and password and is assigned a corresponding professional.

Note: after login user must change the password from default password to another password before using the system.

Super admin register admin of a facility. Facility admin login to the system. After login, facility admin will register the facility and create other facility users.

Figure 56. Facility admin

CREATE FACILITY ADMIN					
Name	E-mail	Password			
Dafina	dafina@isanzu.go.tz			
Mobile number	Gender	Facility	Professionals		
0717667788	Female	ISANZU	ICT		

SAVE ← Click save to register facility admin

After registration of a facility admin, facility admin will login to the system by entering the username and password

Facility admin is responsible for creating other facility users, giving them permission user and permission roles

Figure 57. User registration

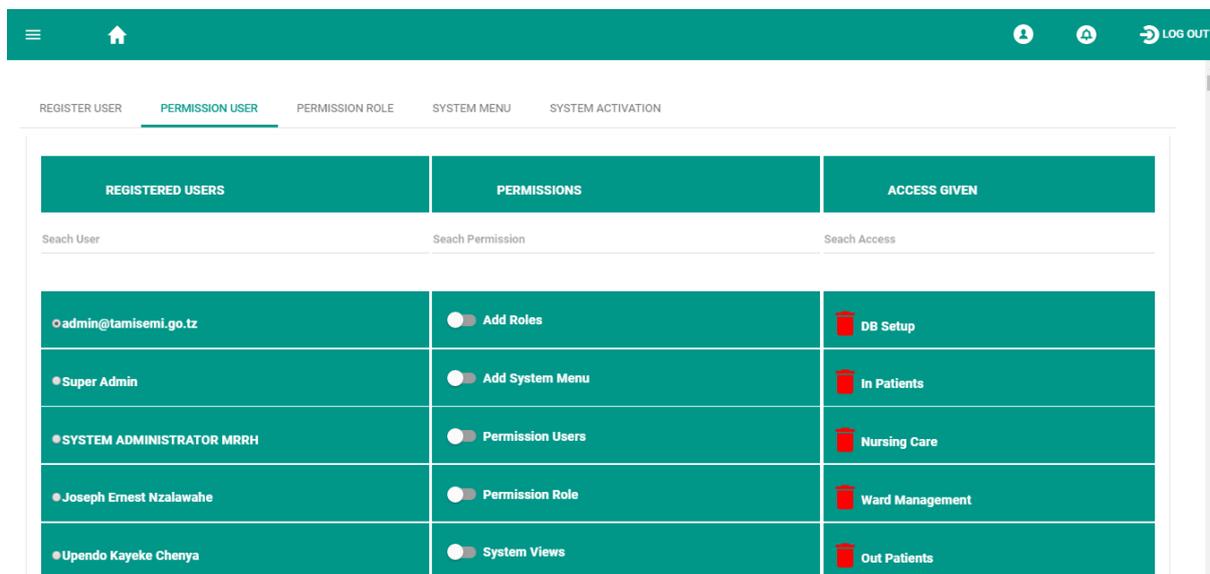
REGISTER USER				
Name	E-mail	Password		
Lisa Samwel	lisas@tamisemi.go.tz		
Mobile number	Gender	Facility	Professionals	
0717676778	Female	MWANANYAMALA	PHARMACIST	

SAVE

After registration, the user will be able to log in to the system but he/she won't be able to do any task. For a user to be able to perform any task, permission must be granted by the administrator under *permission user* tab. Administrator will search the name of a registered user among the listed registered users and after selecting the user, admin grants the user with permission according to that user's privilege by *double click* a required permission. After double click a permission those permissions displays at the right hand side under the *access given* tab.

If a wrong permission is added it can be removed by clicking the **Delete** tab.

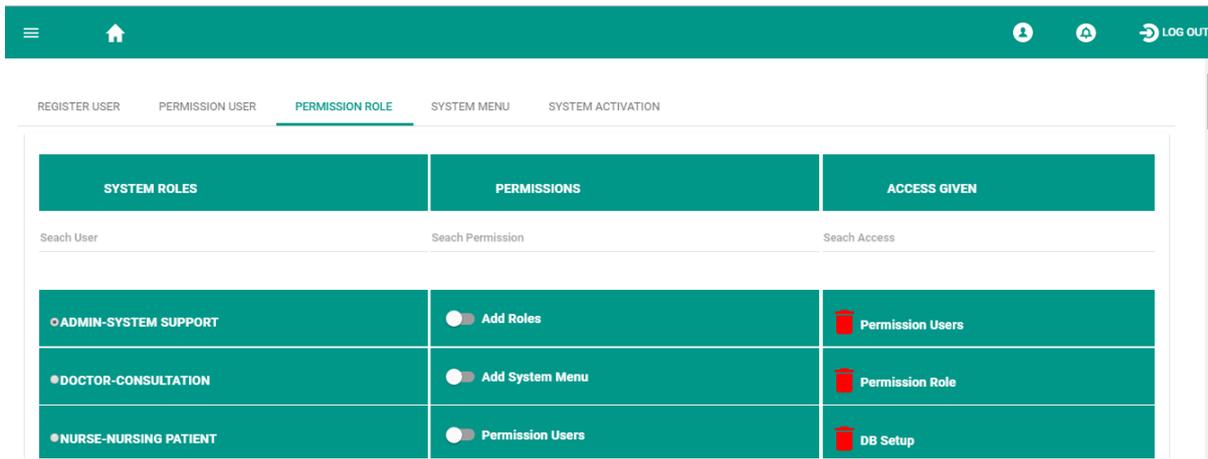
Figure 58.permission user



The system is capable of giving a permission user the ability to perform tasks of another user, the system ensure that permitted user has the required roles. Example a system can enable receptionist to perform tasks of a cashier. Administrator will do that by opening the *permission role* tab and selecting the system role. After selecting the targeted system role, administrator will grant the required permission which will display at the right hand side under the *access given* tab.

If a wrong permission is added it can be removed by clicking the **Delete** tab.

Figure 59. Permission role

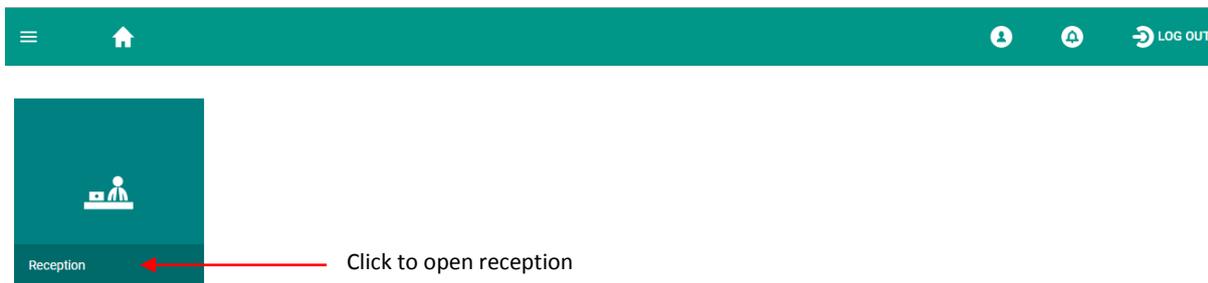


RECEPTION

Patient registration, corpse registration, and insurance verification

This is the fundamental module of the Hospital Management System. Every Patient visiting the hospital for outpatient service or inpatient service is first registered using this module. The module captures the basic personal details of the patient .under registration the system generates the Unique Sequential Medical Record Number (MRN), which is used as a patient identity, wherever he/she goes the medical records can be viewed for both outpatient as well as inpatient services. The system also generates Sequential Account Number (SAN) which is generated every time a patient pays a visit to the facility; SAN controls every execution a patient will undergo. Patients can be classified as user fee, Exemption or Insurance.

Figure 60.Reception



The system has two options of patient/client registration. Registration can be quick or full registration. Quick registration is useful for time saving where receptionist will enter only few details of a patient and the remaining details will prompt be filled on the patient next visit

Figure 61. Patient /client registration

REGISTER PATIENT INSURANCE CORPSE REGISTRATION REPORTS EDIT PATIENT

Search Re-attendance Patients *

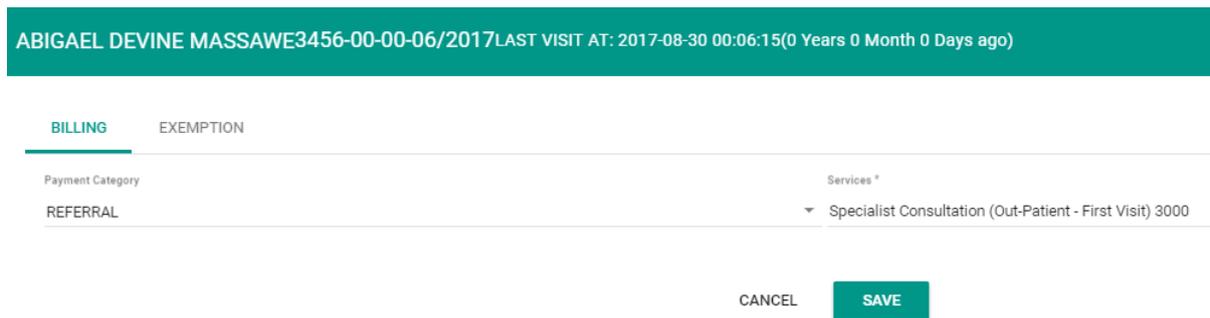
First name *	Middle Name *	Last Name *	
Abdul	Juma	Abdul	
Gender *	Date of birth *	Age	Unit
Male	1991-07-01	26	Year(s)
Mobile Number	Tribe		
0787665544	SUKUMA		

Search Residence
MOSONGO SERENGETI

QUICK REGISTER NEXT

After registering a patient, receptionist choose patients payment category. Payments categories include user fee, exemption and Insurance.

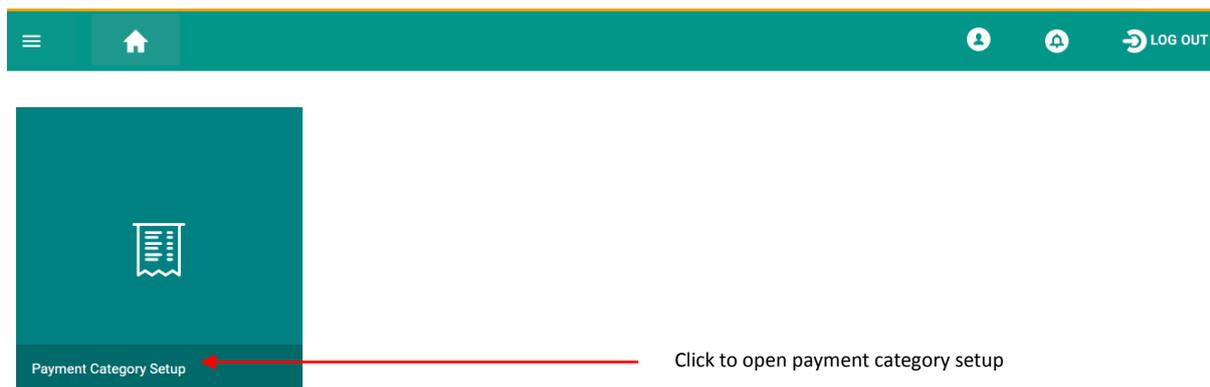
Figure 62.patients payment category



The screenshot shows a patient record header for ABIGAE DEVINE with ID MASSAWE3456-00-00-06/2017 and a last visit date of 2017-08-30. Below the header are two tabs: 'BILLING' (selected) and 'EXEMPTION'. Under the 'BILLING' tab, there are two sections: 'Payment Category' with a dropdown menu showing 'REFERRAL' and 'Services *' with a dropdown menu showing 'Specialist Consultation (Out-Patient - First Visit) 3000'. At the bottom right, there are 'CANCEL' and 'SAVE' buttons.

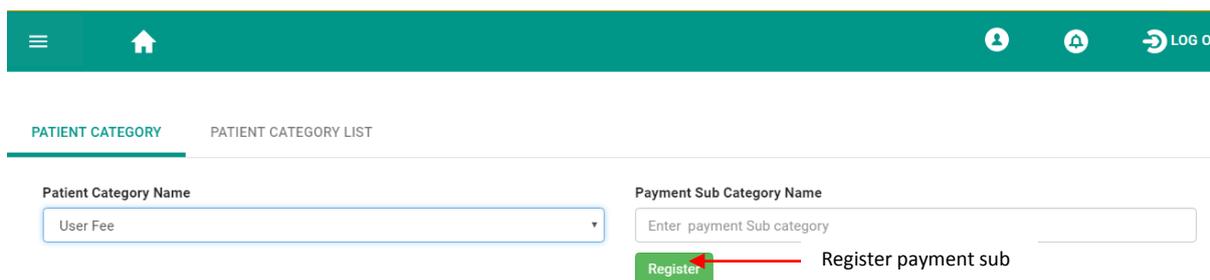
If it happens that the patient payment category is not on the list, go to payment category setup module, and click to open payment category setup, choose the patient category name and enter payment sub category. Then click register.

Figure 63.Payment category setup



The screenshot shows the 'Payment Category Setup' module. It features a teal header with navigation icons (home, user, notification, log out) and a main content area with a teal background and a white icon of a document with a checklist. A red arrow points from the text 'Click to open payment category setup' to the 'Payment Category Setup' label at the bottom left of the main content area.

Figure 64. Payment sub category registration



The screenshot shows the 'Payment Sub Category registration' interface. It has a teal header with navigation icons. Below the header are two tabs: 'PATIENT CATEGORY' (selected) and 'PATIENT CATEGORY LIST'. Under the 'PATIENT CATEGORY' tab, there are two input fields: 'Patient Category Name' with a dropdown menu showing 'User Fee' and 'Payment Sub Category Name' with a text input field containing 'Enter payment Sub category'. A green 'Register' button is located below the 'Payment Sub Category Name' field, with a red arrow pointing from the text 'Register payment sub' to the button.

After registration all the payment sub categories will be listed on patient category list. To be able to see those list, click patient category list

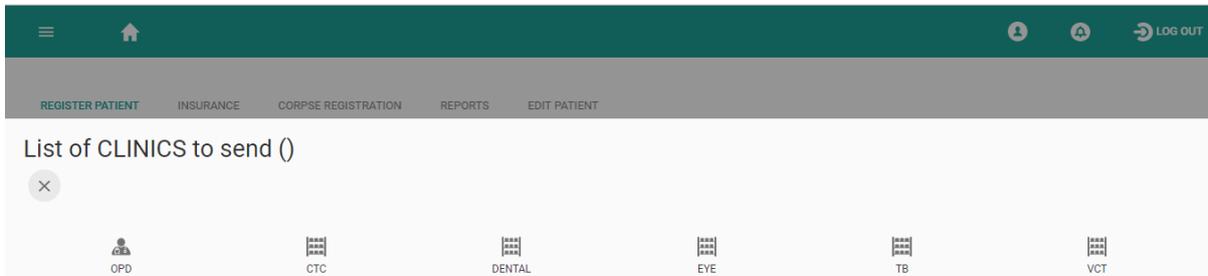
On patient category list the system allows user to edit the list.

Figure 65. Patient category list

No	Payment Type	Edit	Delete
1	REFERRAL	<input type="checkbox"/> Edit	<input type="button" value="Delete"/>
2	SELF REFERRAL	<input type="checkbox"/> Edit	<input type="button" value="Delete"/>
3	TEMPORARY EXEMPTION	<input type="checkbox"/> Edit	<input type="button" value="Delete"/>
4	NHIF	<input type="checkbox"/> Edit	<input type="button" value="Delete"/>
5	UNDER FIVE	<input type="checkbox"/> Edit	<input type="button" value="Delete"/>
6	ABOVE 60	<input type="checkbox"/> Edit	<input type="button" value="Delete"/>

After assigning the patient payment category, choose the clinic where the patient will be consulted by the doctor then click save.

Figure 66. Choose clinic



After choosing the clinic and save, the system will automatically generate the patient card.

A card contains the facility name and patient particulars.

The card carries the Unique Sequential Medical Record Number (MRN), which is used as a patient identity, wherever he/she goes

Figure 67. Patient card

MWANANYAMALA REGIONAL REFFERAL HOSPITAL

P.O.BOX 161665

Name: LISA ABI DANGOTE MRN : 3456-00-00-10/2017
Address: MROMA, HAI Gender : FEMALE
Date of Birth: 1992-07-01 Occupation : CAPENTER
Date : 2017-08-30 13:09:49

← Medical record number

PRINT CARD

INSURANCE REGISTRATION

This part enable the patients under insurance category to be registered by entering the membership number where NHIF will verify the patient details and automatically NHIF register the patient. This helps the facility to send the correct payment details of a patient.

Figure 68. Insurance registration

REGISTER PATIENT **INSURANCE** CORPSE REGISTRATION REPORTS EDIT PATIENT

Insuaran... Membership Number

NHIF 208100163492 **VERIFY** Click verify

CORPSE REGISTRATION

This part involves the registration of corpse coming from outside the facility, after registration the system generates corpse registration number.

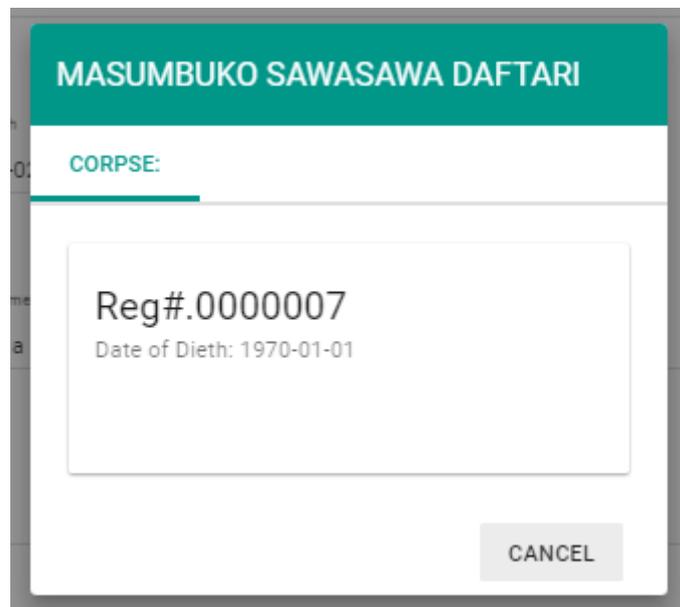
Figure 69. Corpse registration

The screenshot shows a web application interface for corpse registration. At the top, there is a green navigation bar with a home icon, a user profile icon, and a 'LOG OUT' button. Below the navigation bar, there are five tabs: 'REGISTER PATIENT', 'INSURANCE', 'CORPSE REGISTRATION' (which is active), 'REPORTS', and 'EDIT PATIENT'. The main form area contains several input fields:

- First Name ***: Masumbuko
- Middle Name ***: Sawasawa
- Last Name ***: Daftari
- Gender ***: Male
- Date of Birth**: 1995-01-02
- Date of Death**: 2017-08-30
- Transport ***: Bajaji
- Relative Name ***: mwajuma
- Relative Mobile Number ***: 0712334455
- Where Corpse Found/taken?**: KINONDONI SHAMBA KINONDONI
- Nationality**: TANZANIA
- Tribes**: -JAO

At the bottom center of the form, there is a green 'SAVE' button.

Figure 70. Corpse registration number

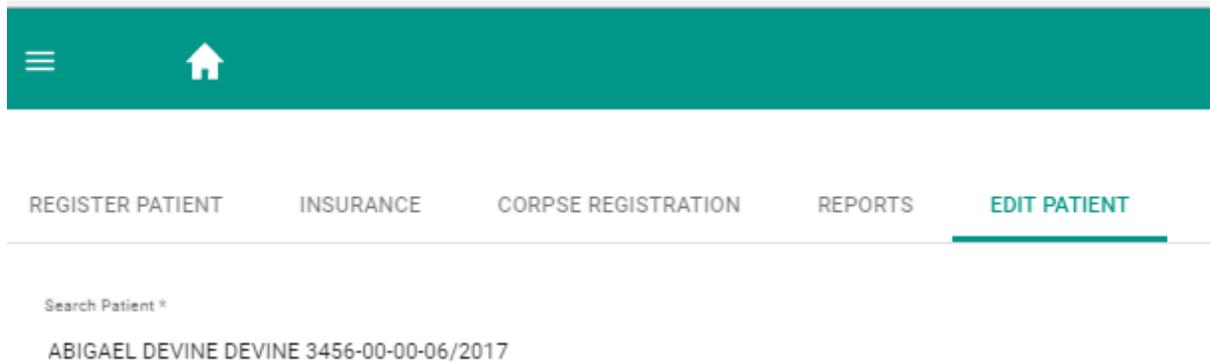


EDIT PATIENT

The system enables receptionist to edit patient details when details were incorrect entered or when there is new patient details.

In order to edit patient details, click edit patient sub module, search the patient then edit patient details then click save.

Figure 71. Edit patient



BILL PAYMENT

This module is used to record the charges for the patient services provided by the various clinical departments, e.g. lab tests, medication, medical supply, procedures and consultation. Payments are done electronically through the use of Government electronic Payment Gateway (GePG), Cash payment or POS.

For cash payment; Process payment request and generate receipt

For GePG the system first generates the control number, after payment a notification message is sent to the patient and to the facility to show that payment is successful complete.

Figure 72. Bill payment

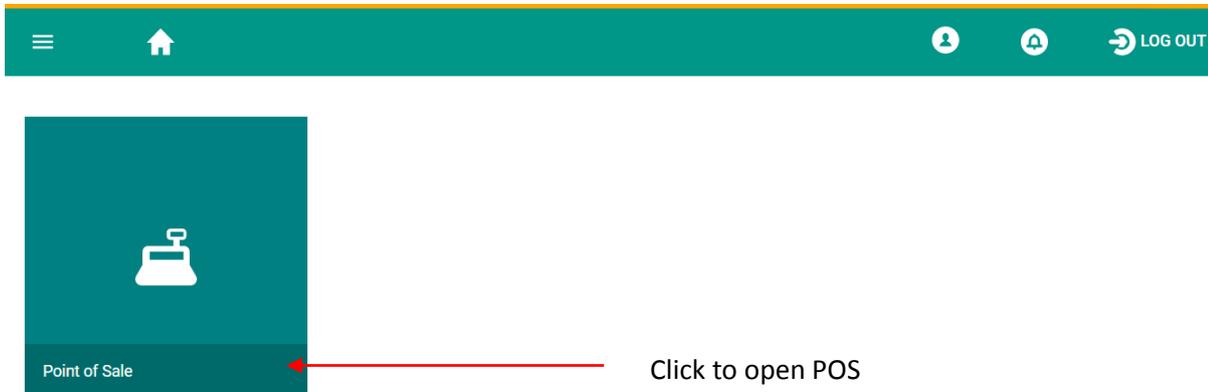
Names: ABIGAEL DEVINE MASSAWE MRN: 3456-00-00-08/2017 DoB: 2007-07-01 Gender: FEMALE				
Item Name	Unit Price	Quantity	Discount	Sub Total
CONSULTATION DENTAL	10000	1	0	Tshs 10,000.00
Grand Total				Tshs 10,000.00
<input checked="" type="radio"/> Cash <input type="radio"/> GePG				
<input type="button" value="CANCEL"/> <input type="button" value="PROCESS BILL"/>				

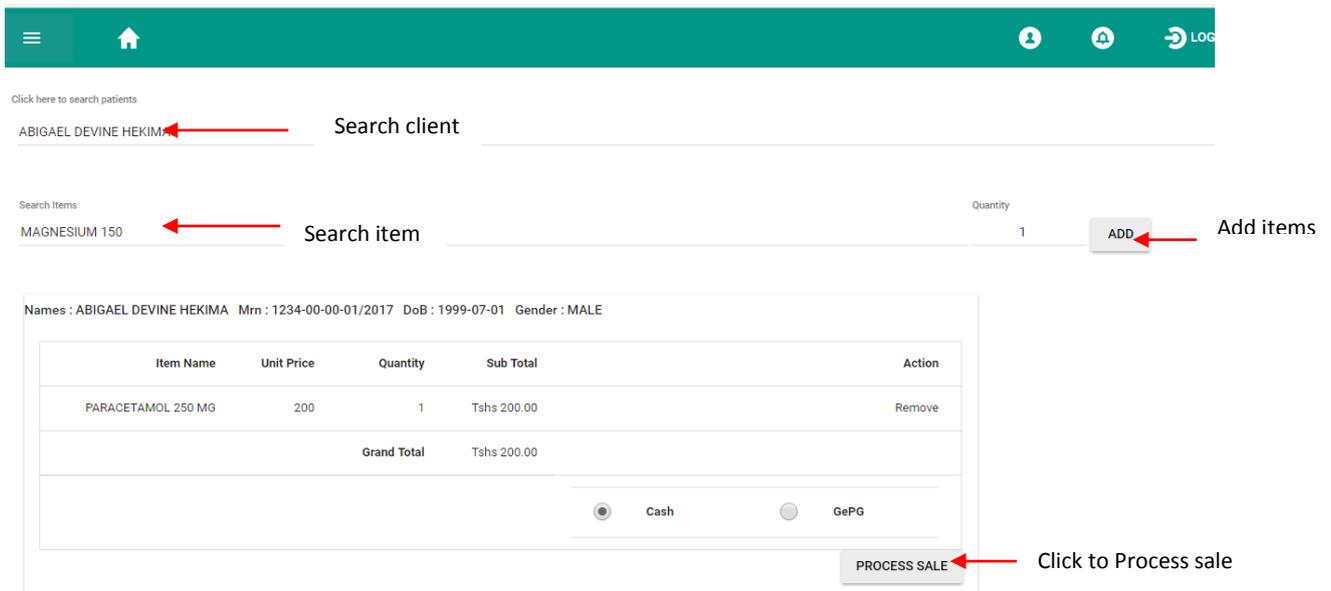
POINT OF SALE (POS)

For Point of Sale items are purchased and payments are made at once. (Point of sale is applied when a patient comes from prescription straight to the payment point, the cashier enters required items manually to the system. The client is provided with prescribed item after payment and automatically the system generates receipt.

POS is used for facilities with partially network system configured.

Figure 73. Point of sale



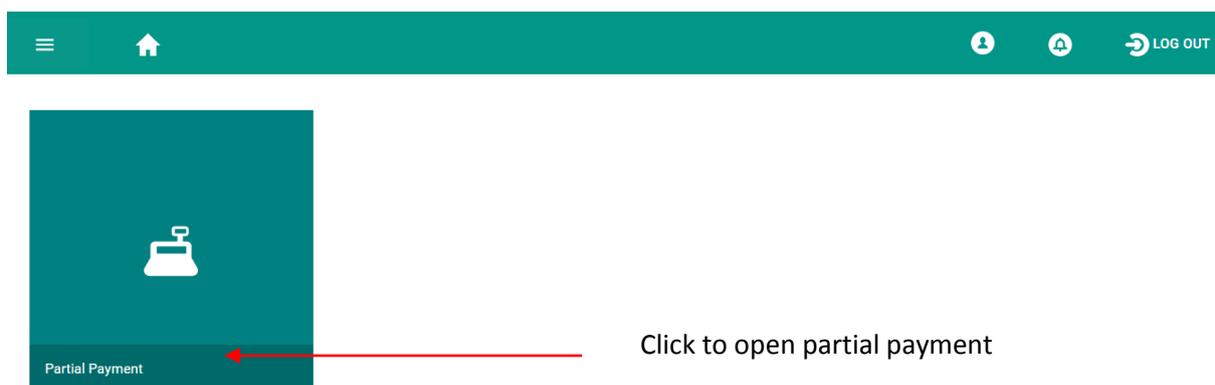


PARTIAL PAYMENT

Is a module that is used when a patient/client needs to make payment but the patient has insufficient amount of money.

The system allows that partial amount to be processed and the system will automatically generate receipt.

Figure 74. Partial payment



The system allows a client to be searched from search box in order to view a list of all items for discount, there after commit partial payment

Type medical record number
 ABIGAEEL HEKIMA 1234-00-00-01/2017

MRN: 1234-00-00-01/2017 NAME: ABIGAEEL DEVINE HEKIMA GENDER: MALE DOB: 1999-07-01 MOB NUMBER:

Item Name	Quantity	Price	Total	Prev Discount	Amount Paid	Balance To Pay
CONSULTATION OPD	1	TZS 100.00	TZS 100.00	TZS 0.00		
			<u>TZS 100.00</u>	<u>TZS 0.00</u>	TZS 0.00	<u>TZS 100.00</u>
			Amount To Pay *			

[COMMIT PARTIALPAYMENT](#)

SOCIAL WELFARE

Social welfare is concerned with exempted patients. It is responsible with client’s exemptions GBV/VAC issues, marriages issues like conflicts, complains and ward round issues handling

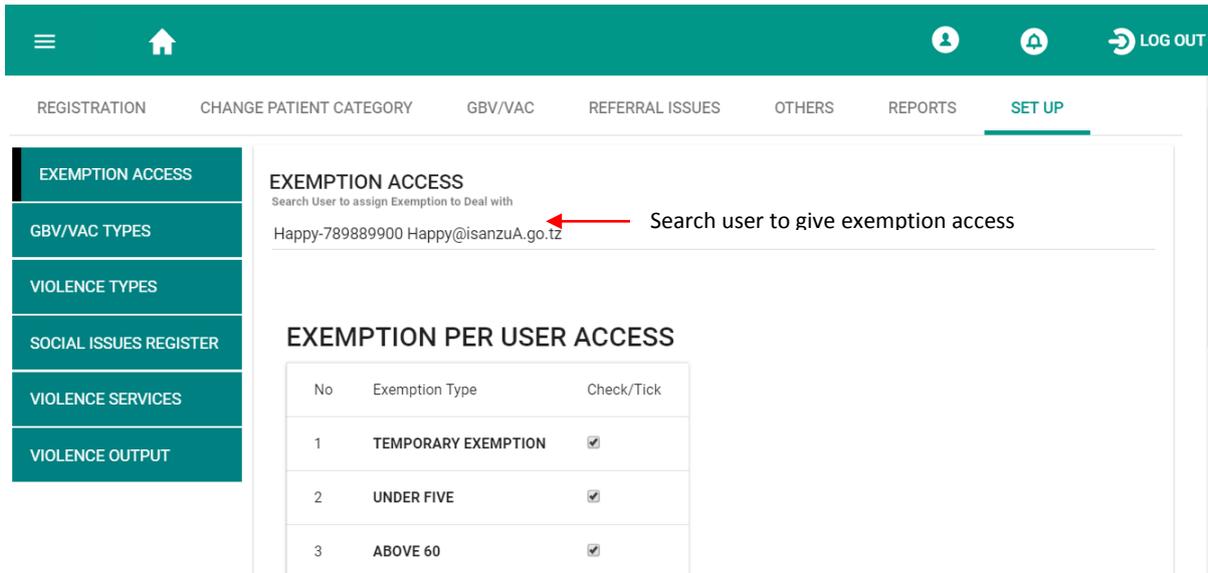
Figure 75.Social welfare



SET UP

This sub module is responsible for provision of exemption access to a user, by searching user and assign that user to deal with.

Figure 76. Exemption access



Registration of types of Gender Based Violence (GBV) and Violence Against Child, violence types, Social issue, violence services and violence output are registered under set up sub module.

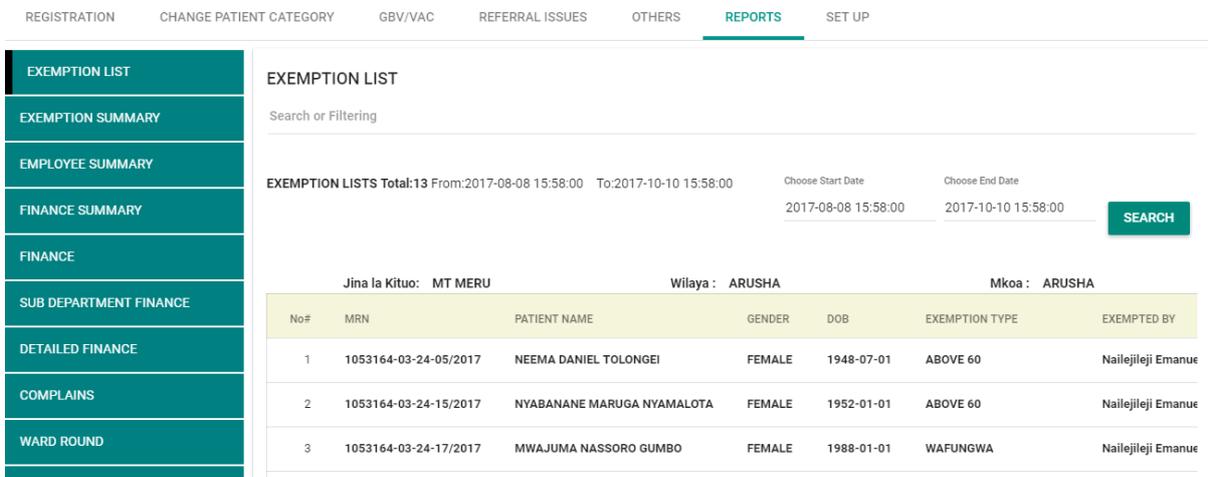
REPORT

This sub module allows social welfare to view various types of reports including:

EXEMPTION LIST REPORT

This report lists all the exemptions provided, the report gives the name of the one who gave those exemptions.

Figure 77. Exemption list



EXEMPTION SUMMARY REPORTS

Gives a summary report of gender, exemption type given and the number of those who got that exemption.

Figure 78. Summary report

Gender	Exemption Type	Total
FEMALE	ABOVE 60	4
MALE	WAFUNGWA	3
MALE	TEMPORARY EXEMPTION	2
FEMALE	UNDER FIVE	2

EMPLOYEE SUMMARY REPORT

This report shows the employees performance, it shows how many people were given exemption by that employee in a given period of time.

Figure 79. Employee summary

#	Employee	Count
1	Nailejileji Emanuel Kivuyo	11
2	john fredrick kimario	2
Total		13

FINANCE SUMMARY

This gives the overall finance summary report for total number of all exemptions from all departments.

Figure 80. Finance summary

REGISTRATION CHANGE PATIENT CATEGORY GBV/VAC REFERRAL ISSUES OTHERS **REPORTS** SET UP

FINANCE SUMMARY

Choose Start Date Choose End Date
 2017-08-01 16:06:00 2017-10-10 16:06:00 **SEARCH**

Jina la Kituo: MT MERU
 Wilaya : ARUSHA
 Mkoa : ARUSHA

EXEMPTION FINANCE
 From:2017-08-01 16:06:00 To:2017-10-10 16:06:00

#	Department	Exemptions	Amount Exempted
1	OUT PATIENT DEPARTMENT (OPD)	8	40,000.00
2	LABORATORY	1	4,000.00
3	DENTAL	1	5,000.00

FINANCE

This part shows the report of financial report of each exemptions provided in a specified department

Figure 81. Finance

REGISTRATION CHANGE PATIENT CATEGORY GBV/VAC REFERRAL ISSUES OTHERS **REPORTS** SET UP

FINANCE

Choose Start Date Choose End Date
 2017-08-01 16:06:00 2017-10-10 16:06:00 **SEARCH**

Jina la Kituo: MT MERU
 Wilaya : ARUSHA
 Mkoa : ARUSHA

EXEMPTION FINANCE
 From:2017-08-01 16:06:00 To:2017-10-10 16:06:00

#	Department	Type	Total amount Exempted
1	OUT PATIENT DEPARTMENT (OPD)	UNDER FIVE	5,000.00
2	OUT PATIENT DEPARTMENT (OPD)	ABOVE 60	5,000.00
3	OUT PATIENT DEPARTMENT (OPD)	WAFUNGWA	5,000.00
4	LABORATORY	TEMPORARY EXEMPTION	4,000.00
5	DENTAL	WAFUNGWA	5,000.00

SUB DEPARTMENT FINANCE

Gives the report from sub departments

REGISTRATION CHANGE PATIENT CATEGORY GBV/VAC REFERRAL ISSUES OTHERS **REPORTS** SET UP

EXEMPTION LIST

EXEMPTION SUMMARY

EMPLOYEE SUMMARY

FINANCE SUMMARY

FINANCE

SUB DEPARTMENT FINANCE

FINANCE

SUB DEPARTMENT FINANCE

FINANCE

SUB DEPARTMENT FINANCE

Choose Start Date: 2017-08-01 16:19:00

Choose End Date: 2017-10-13 16:19:00

Jina la Kituo: MT MERU

Wilaya : ARUSHA

Mkoa : ARUSHA

EXEMPTION SUB DEPARTMENT FINANCE

SEARCH

← Exemption from sub departments will display here

DETAILED FINANCE

Gives the exemption detailed finance report

Figure 82. Exemption detailed finance

REGISTRATION CHANGE PATIENT CATEGORY GBV/VAC REFERRAL ISSUES OTHERS **REPORTS** SET UP

EXEMPTION LIST

EXEMPTION SUMMARY

EMPLOYEE SUMMARY

FINANCE SUMMARY

FINANCE

SUB DEPARTMENT FINANCE

DETAILED FINANCE

COMPLAINS

MARRIAGE CONFLICTS

WARD ROUND

MTUHA

DETAILED FINANCE

Choose Start Date: 2017-07-01 12:51:00

Choose End Date: 2017-10-26 12:51:00

Jina la Kituo: TUMBI

Wilaya :

Mkoa :

EXEMPTION DETAILED FINANCE

From: 2017-07-01 12:51:00 To: 2017-10-26 12:51:00 Total: 5,000.00

#	NAME	CATEGORY	VALIDATION	SERVICE	DEPT
1	SALIMA SHOMARY HAMIS 107787-01-30-00/2017	TEMPORARY EXEMPTION	CHRONIC DISEASE	CONSULTATION OUTPATIENT NEW VISIT	OUT PATII
2	JOHN LAWILE MROPE 107787-00-00-05/2017	UNDER FIVE	UNDER FIVE	CONSULTATION OUTPATIENT NEW VISIT	OUT PATII
Total					

WARD ROUND REPORT, COMPLAINS REPORT and MTUHA REPORT can be viewed under report sub module tab

Figure 83.Mtuha report

MTUHA								
'SIRI'		Choose Start Date		Choose End Date				
JAMHURI YA MUUNGANO WA TANZANIA WIZARA YA AFYA MAENDELEO YA JAMII JINSIA, WAZEE NA WATOTO		2017-07-03 16:28:00		2017-10-12 16:28:00				
 MFUMO WA TAARIFA ZA UENDESHAJI WA HUDUMA ZA AFYA MTUHA TOLEO LA TATU: MWAKA 2014 TAARIFA YA MWEZI YA UKATILI WA KIJINSIA NA UKATILI DHINI YA WATOTO								
Jina la Kituo: MT MERU		Wilaya : ARUSHA			Mkoa : ARUSHA			
		From:2017-07-03 16:28:00 To:2017-10-12 16:28:00						
na:	Aina Ya Huduma	Makundi Ya Wateja Kwa Umri						Jumla
		Miezi 0-59	Miaka 5-9	Miaka 10-14	Miaka 15-17	Miaka 18-24	Miaka 25 na zaidi	
1a	Idadi ya wateja wote KE	2	0	0	0	0	5	7
1b	Idadi ya wateja wote ME	0	0	0	0	1	5	6
2a	Idadi ya wateja Wapya KE	2	0	0	0	0	5	7
2b	Idadi ya wateja Wapya ME	0	0	0	0	1	5	6
2c	Wateja waliokuja kwa Ufuatiliaji(Folloup Visit) KE	2	0	0	0	0	5	7
3a	Idadi ya watoto waliopo katika mazingira Hatarishi KE	0	0	0	0	0	0	0
3b	Wateja waliokuja kwa Ufuatiliaji(Folloup Visit) ME	0	0	0	0	1	5	6

DETAILED FINANCE								
COMPLAINS								
MARRIAGE CONFLICTS								
WARD ROUND								
MTUHA								
Jina la Kituo: TUMBI		Wilaya :			Mkoa :			
		From:2017-04-01 12:54:00 To:2017-10-26 12:51:00						
na:	Aina Ya Huduma	Makundi Ya Wateja Kwa Umri						Jumla
		Miezi 0-59	Miaka 5-9	Miaka 10-14	Miaka 15-17	Miaka 18-24	Miaka 25 na zaidi	
1a	Idadi ya wateja wote KE	0	1	1	0	0	11	14
1b	Idadi ya wateja wote ME	0	1	0	0	1	5	7
2a	Idadi ya wateja Wapya KE	0	1	1	0	0	11	14
2b	Idadi ya wateja Wapya ME	0	1	0	0	1	5	7
2c	Wateja waliokuja kwa Ufuatiliaji(Folloup Visit) KE	0	1	1	0	0	11	14
3a	Idadi ya watoto waliopo katika mazingira Hatarishi KE	0	0	0	0	0	0	0
3b	Wateja waliokuja kwa Ufuatiliaji(Folloup Visit) ME	0	1	0	0	1	5	7
4a	Wateja walioulizwa maswali ya utambuzi(Screening) KE			0	0	0	0	0
4b	Wateja walioulizwa maswali ya utambuzi (Screening) ME			0	0	0	0	0
4c	Wazazi/Walezi walioulizwa maswali ya utambuzi kwaniaba ya watoto (Screening) KE	0	0			0	0	0
4d	Wazazi/Walezi walioulizwa maswali ya utambuzi kwaniaba ya watoto (Screening) ME	0	0			0	0	0

OTHERS

This sub module enables complains and ward round to be registered

COMPLAINS

- It is dealing with visiting each facility ward to check patients with issues faced them socially like neglecting in a ward or missing necessities like food and helping them to solve

Figure 84.Register complains

The screenshot shows a web application interface for registering complaints. At the top, there is a green navigation bar with a home icon, a user profile icon, a notification bell icon, and a 'LOG OUT' button. Below the navigation bar is a search bar labeled 'Search Patient *'. The main content area is divided into two sections: a left sidebar with 'COMPLAINS REGISTER' (highlighted) and 'WARDS ROUND REGISTER', and a main form titled 'COMPLAINS REGISTER'. The form contains the following fields: 'Area of Complain' with a dropdown menu showing 'OUT PATIENT DEPARTMENT (OPD)'; 'Complain' with a text input field containing 'COMPLAIN'; 'Immediate Measure Taken' with a text input field; 'Solution' with a text input field; and 'Feedback' with a text input field containing 'FEEDBACK'. A green 'SAVE' button is located at the bottom right of the form.

Figure 85.Register ward round

The screenshot shows a web application interface for registering ward rounds. At the top, there is a green navigation bar with a home icon, a user profile icon, a notification bell icon, and a 'LOG OUT' button. Below the navigation bar is a search bar labeled 'Search Patient *'. The main content area is divided into two sections: a left sidebar with 'COMPLAINS REGISTER' and 'WARDS ROUND REGISTER' (highlighted), and a main form titled 'WARDS ROUND REGISTER'. The form contains the following fields: 'Issue' with a dropdown menu showing 'katelekezwa'; 'Enter Your Plan' with a text input field containing 'plan'; 'Output' with a text input field containing 'output'; and 'Remarks' with a text input field containing 'remarks'. A green 'SAVE' button is located at the bottom left of the form.

REFERRAL ISSUES

Incoming and outgoing referral issues are displayed under referral issues sub module.

GBV/VAC

Under GBV/VAC sub modules the system allows user to search for violence that patient uncounted, service is given, client violence effect is analysed, informant details are recorded and if there is any attachment it will be uploaded.

Figure 86.violence

REGISTRATION CHANGE PATIENT CATEGORY **GBV/VAC** REFERRAL ISSUES OTHERS REPORTS SET UP

Search Patient *
JOHN LAWILE LAWILE 107787-00-00-05/2017

VIOLENCE

SERVICES GIVEN

CLIENT VIOLENCE EFFECT

INFORMANT

ATTACHMENT

MARRIAGE ISSUES

VIOLENCE

Search violence_types: GBV Enter Date of event occurred: 2017-08-01 12:33:00 Search Violence Category: ukatili wa kimwili

KUPIGWA KUCHOMWA NA KITU CHA NCHA KALI

Violence	Type
ukatili wa kimwili	KUPIGWA Remove

SAVE

Figure 87.Client violence effect

REGISTRATION CHANGE PATIENT CATEGORY **GBV/VAC** REFERRAL ISSUES OTHERS REPORTS SET UP

Search Patient *
JOHN LAWILE LAWILE 107787-00-00-05/2017

VIOLENCE

SERVICES GIVEN

CLIENT VIOLENCE EFFECT

INFORMANT

ATTACHMENT

MARRIAGE ISSUES

CLIENT VIOLENCE EFFECT

Search output: ulemavu wa kudumu

Service: ulemavu wa kudumu Remove

SAVE

CHANGE PATIENT CATEGORY

This is applicable for changing the category of a patient who was first registered as a payment patient but now that patient needs exemption or if a patient needs to be changed from one exemption type to another exemption.

Enter patient, Choose exemption type, Fill the exemption reason, Register.

The system will generate the exemption number

REGISTRATION

First register patient by entering of patient required particulars.

Figure 88.Social patient registration

REGISTRATION CHANGE PATIENT CATEGORY GBV/VAC REFERRAL ISSUES OTHERS REPORTS SET UP

Search Patient *

First name SMAWEL Middle Name SAMWEL Last Name SAMWEL

Gender Male Date of birth 1956-01-01 Age 61 Unit Year(s)

Search Residence KIGONGONI MONDULI Mobile Number 0786778866

Marital Status* Occupation* Tribe*

Choose exemption type (e.g. under five, temporary exemption etc.)

Fill the exemption reason, under exemption reason; there are two things involved. The reason can be (*under five, temporary exemption* etc.) or the reason can be a *card number/ID* carried by a patient.

NAME: SMAWEL SAMWEL SAMWEL MRN: 1234-00-00-02/2017 GENDER:MALE

Choose exemption type ABOVE 60 Exemption Reason/Reference above sixty

Choose Service CONSULTATION OPD Upload Choose Files

REGISTER

11 / 255

After registration the system generates a patient card.

Figure 89.patient card

[PRINT CARD](#)

IsanzuA REGIONAL REFFERAL HOSPITAL


p. o. box 2345

Name: SMAWEL SAMWEL SAMWEL	MRN : 1234-00-00-02/2017
Address: KIGONGONI,	Gender : MALE
Date of Birth: 1956-01-01	Occupation : ENGINEER
Nationality: TANZANIA	Date : 2017-10-08 17:08:15

DEBTOR

This module consist of Debtor list, Discount and debt summary report

Debtor list

Debtor enable a Patient to be given services through temporary exemption which will be marked as a dept. the module is under control of hospital secretary (HS). On clearing their debt they must go to HS to clear their bills. There after the patient go to bill payment in order to clear their bills.

Figure 90. Debtor list

☰ 🏠 👤 🔔 🚪 LOG OUT

DEBTORS LISTDISCOUNTDEBTS SUMMARY REPORT

No#	MRN	PATIENT NAME	GENDER	EXEMPTED BY	DATE OF ISSUE	
1	3456-00-00-01/2017	NASSORO SALUM KIUTA	MALE	social	2017-09-07 01:49:06	VIEW

Discount

System under this module enables social welfares / Hospital secretary (HS) to give discount for some services to patients with less amount of money, if a facility has such policy. For example if a client /patient is required to pay 5800Tsh/= bill and the only amount he/she has is 4500Tsh/=, a user can get a discount of 500Tsh/=.

Note: The amount of money client/patient have to pay after discount is maintained under partial payment module.

Figure 91 Discount

NAME: NASSORO SALUM KIUTA MRN: 3456-00-00-01/2017 GENDER:MALE X

#	Item	Discount	Amount	Grand Tot	#	Item	Discount	Amount	
1	General Practitioner Consultation (Out-Patient - First Visit)	Tshs 0.00	Tshs 3,000.00	Tshs 3,000.00	X	1	General Practitioner Consultation (Out-Patient - First Visit)	Tshs 0.00	Tshs 3,000.00
		Tshs 0.00	Tshs 3,000.00	Tshs 3,000.00					

☰ 🏠 👤 🔔 🔙 LOG OUT

DEBTORS LIST DISCOUNT DEBTS SUMMARY REPORT

Type medical record number
DAFINA MPEKU 3456-00-00-03/2017

MRN: 3456-00-00-03/2017 NAME: DAFINA ALBIN MPEKU GENDER: FEMALE DOB: 1982-07-01 MOB NUMBER:

Item Name	Quantity	Price	Total	Prev Discount	Current Discount	Balance To Pay	Create Debt
Urine For Pregnancy Test (UPT)	1	TZS 5,000.00	TZS 5,000.00	TZS 0.00	<input type="text" value="1000"/> 20.00%		CREATE DEBT
			<u>TZS 5,000.00</u>	<u>TZS 0.00</u>	<u>TZS 1,000.00</u>	<u>TZS 4,000.00</u>	
				0.00%	20.00%	80.00%	
							COMMIT DISCOUNT

Debts Summary Report

This module shows all summaries of debtors and their total amount.

VITAL SIGNS

Vital signs are a group of most important signs that indicate the status of the body's vital functions, these measurements are taken to help assess the general physical health of a person, give clues to possible disease, and show progress toward recovery.

The system allows any body responsible for taking vital signs to be able to take the vitals.

Vital Sign and Anthropometric

VITAL SIGN TAKING VITAL SIGN RECORDS

Search Patient

ANNA SEKASUA PETER

ANNA SEKASUA PETER 25 Years (001-00-00-01/2017)

Register Vitals

Body Weight(Kg)	Height or Length(cm)	Body Temperature(°C)	Systolic Pressure(mmHg)	Diastolic Pressure(mmHg)
45	150	27	50	
Respiratory Rate(bpm)	Pulse Rate(bpm)	Oxygen Saturation(%)		

SAVE VITALS

Figure 92. Vital signs record

ANNA SEKASUA PETER 25 Years (001-00-00-01/2017)

Vital Sign and Anthropometrics Records

2017-09-29 11:44:27

ANNA SEKASUA PETER MRN: 001-00-00-01/2017 Gender: FEMALE Age: 25 Years

Vital signs and Anthropometrics

Body Weight	45 Kg	2017-09-29 12:46:01	SUPER ADMIN
Height or Length	150 cm	2017-09-29 12:46:01	SUPER ADMIN
Body Temperature	27 °C	2017-09-29 12:46:01	SUPER ADMIN
Systolic Pressure	50 mmHg	2017-09-29 12:46:01	SUPER ADMIN

OUT PATIENT

Consultation queue, treatment, death certification and doctor performance

Outpatient provides diagnosis and care for patients that do not need to stay overnight. It is an important part of the overall running of the hospital. It is normally integrated with the in-patient through admission services and managed by consultant physicians and surgeons who also

attend inpatients in the wards. Many patients are examined and given treatment as outpatients before being admitted to the hospital at a later date as inpatients. This module consists of the following sub modules which includes;

Figure 93. Outpatient



CONSULTATION QUEUE

Consultation queue contains a list of patients who have satisfied to be consulted by the doctor which involves patients who have made payments and exempted patients all of which are waiting to be consulted by the doctor concerned it also contains a quick search tab that will enable the doctor to search a patient by patient's full name and his/her medical record number. Doctor picks the clients/patients from consultation queue in order to attend them as follows:

Figure 94. Consultation queue

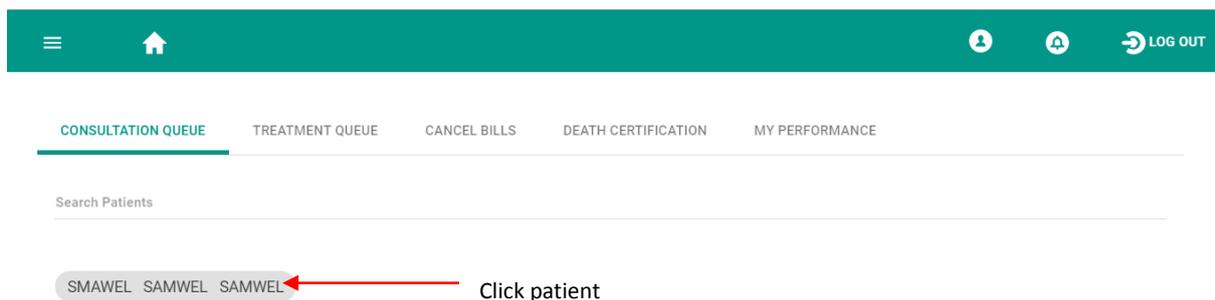
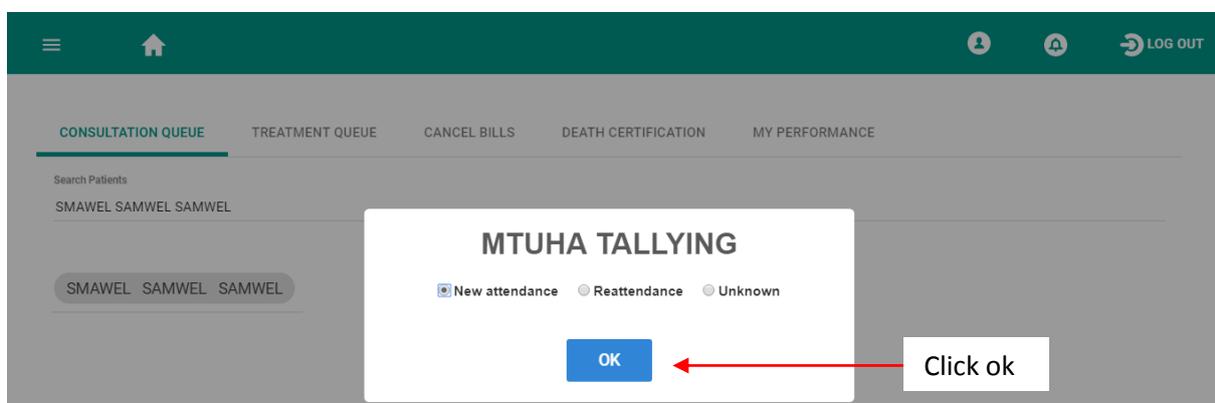


Figure 95. MTUHA tallying



Previous visit

First the doctor looks at the patient's previous visits history. For the new patients, the previous visits history will be seen once the patient is clerked by the doctor.

If it is a new patient, there won't be previous visit history until the patient is clerked is when the patient history will be available

Figure 96. Previous visit



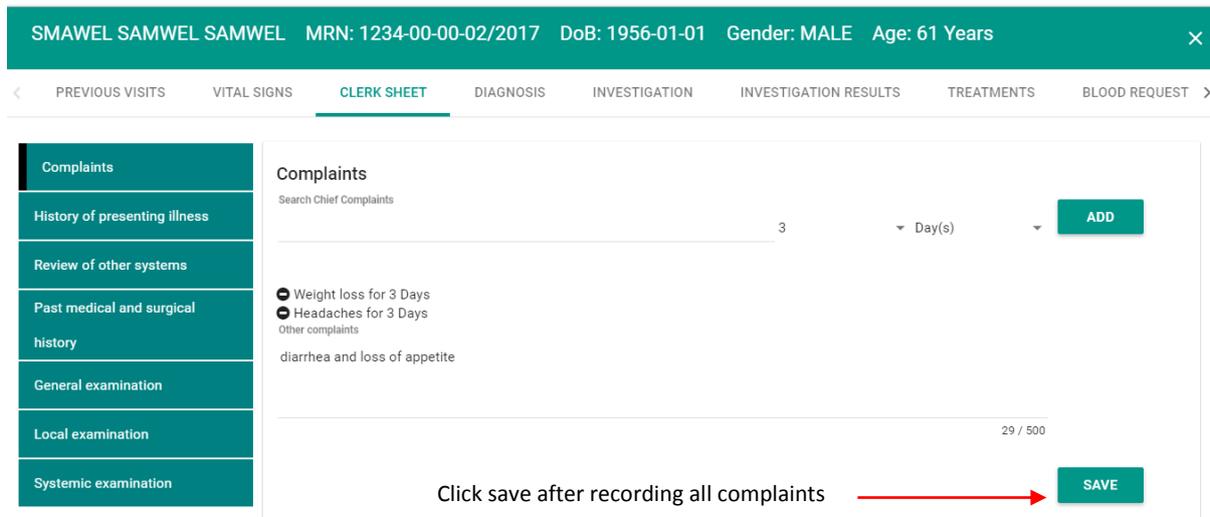
Vital sign

This part enables a doctor to view all vitals that were taken concerning a particular patient.

Clerk sheet

This is where doctor discuss with the patient about the illness. After discussing the doctor will be able to search the complaints and duration of the occurrence of that complaints according to what the patient said apart from searching the complaints, the system enable doctor to write the complaints in details from what was heard from the patient.

Figure 97. Complaints



Doctor will write the history of presenting illness here and take a review of other system to check if there is any inconsistency.

Figure 98. History of presenting illness

Header: SMAWEL SAMWEL SAMWEL MRN: 1234-00-00-02/2017 DoB: 1956-01-01 Gender: MALE Age: 61 Years

Navigation: PREVIOUS VISITS VITAL SIGNS **CLERK SHEET** DIAGNOSIS INVESTIGATION INVESTIGATION RESULTS TREATMENTS

Left sidebar: Complaints, History of presenting illness, Review of other systems, Past medical and surgical history, General examination

Main content: **History of presenting illness**
Write PHI here...
history of presenting illness
29 / 500
SAVE

Figure 99. Review of other system

Header: SMAWEL SAMWEL SAMWEL MRN: 1234-00-00-02/2017 DoB: 1956-01-01 Gender: MALE Age: 61 Years

Navigation: PREVIOUS VISITS VITAL SIGNS **CLERK SHEET** DIAGNOSIS INVESTIGATION INVESTIGATION RESULTS TREATMENTS

Left sidebar: Complaints, History of presenting illness, Review of other systems, Past medical and surgical history, General examination

Main content: **Review of other systems**
Search ENT Search cardiovascular Search respiratory system Search gastrointestinal system
Search musculoskeletal syst... Search genitourinary system Search central nervous system Search endocrine system
RoS summary ← Write summary of review of other systems (ROS)
0 / 500
SAVE

The doctor will write any past medical and surgical history of that patient and be able to search for any allergy to that patient. If it happens that a patient is allergic to something, the allergy message will pop up to the treatment tab to remind the doctor when medication is prepared to be given to that patient.

Figure 100. Past medical and surgical history

Header: SMAWEL SAMWEL SAMWEL MRN: 1234-00-00-02/2017 DoB: 1956-01-01 Gender: MALE Age: 61 Years

Navigation: PREVIOUS VISITS VITAL SIGNS **CLERK SHEET** DIAGNOSIS INVESTIGATION INVESTIGATION RESULTS TREATMENTS BLOOD REQUEST

Left sidebar: Complaints, History of presenting illness, Review of other systems, Past medical and surgical history, General examination, Local examination, Systemic examination

Main content: **Past medical and surgical history**
Write past surgical history here... past surgical history 21 / 500
Write past admissions history here... past admission history 22 / 500
Write blood transfusion history here... blood transfusion history 25 / 500
Write immunisation/supplement here... Immunization 12 / 500
Search allergies: Sulphur Drugs
Sulphur Drugs -> Allergy
SAVE

General examination

General examination concerning a patient illness will be written, local examination will be done where the doctor will investigate a specific area.

Figure 101. General examination

Systemic examination

This part enable a doctor to perform systemic examination, systemic examination involves physical touch various system.

Note: the difference between review of other systems and systemic examination is that; system examination involves physical touch.

Figure 102. Systemic examination

Diagnosis

After clerking a patient, this part enables a doctor to write the possible diagnosis, the possible diagnosis written here will be confirmed by the doctor once the investigation are complete and investigation results are sent to the doctor.

Figure 103. Diagnosis

SMAWEL SAMWEL SAMWEL MRN: 1234-00-00-02/2017 DoB: 1956-01-01 Gender: MALE Age: 61 Years

PREVIOUS VISITS VITAL SIGNS CLERK SHEET **DIAGNOSIS** INVESTIGATION INVESTIGATION RESULTS TREATMENTS BLOOD REQUEST

Provisional diagnosis: PLASMODIUM FALCIPARUM MALARIA, UNSPECIFIED B50.9

Differential diagnosis: TYPHOID FEVER A01.0

PLASMODIUM FALCIPARUM MALARIA, UNSPECIFIED-->Provisional

TYPHOID FEVER-->Differential

Save the diagnosis **SAVE**

Investigation

This part enables a doctor to choose what a patient is to be investigated. After choosing the investigation the patient will make payments and go for investigation.

Figure 104. Investigation

JUMA DOSA HAJI MRN: 1053164-00-00-01/2016 DoB: 1996-07-01 Gender: MALE Age: 21 Years

PREVIOUS VISITS VITAL SIGNS CLERK SHEET DIAGNOSIS **INVESTIGATION** INVESTIGATION RESULTS TREATMENTS BLOOD REQUEST DISPOSITION

Haematology Microbiology Clinical Chemistry Serology Parasitology X-RAY ULTRASOUND ECHO ECG

Search here...

HAEMOGLOBIN(HB) - 4000 Tshs SCKLING TESTING(HB) - 3000 Tshs ESR(HB) - 3000 Tshs

FBP - 10000 Tshs Panel one - 10000 Tshs

HAEMOGLOBIN(HB) - 4000 Tshs SCKLING TESTING(HB) - 3000 Tshs ESR(HB) - 3000 Tshs

FBP - 10000 Tshs Panel one - 10000 Tshs

Selected orders: Panel one - 10000 Tshs

Write clinical summary here... clinical summary **Write clinical summary** Urgent **SAVE** Choose status

Investigation results

Results of what had been investigated from the Laboratory/Radiology is returned to the doctor, the doctor views the investigation results, the results will assist doctor to confirm diagnosis and make treatment.

Figure 105. Lab investigation results

JUMA DOSA HAJI MRN: 1053164-00-00-01/2016 DoB: 1996-07-01 Gender: MALE Age: 21 Years

PREVIOUS VISITS VITAL SIGNS CLERK SHEET DIAGNOSIS INVESTIGATION **INVESTIGATION RESULTS** TREATMENTS BLOOD REQUEST DISPOSITION

LAB RESULTS

2017-10-02	Investigation	Description	Attachment	Remarks	Verifier	Date
	HAEMOGLOBIN(HB)	remarks	ATTACHMENT		Super Admin	

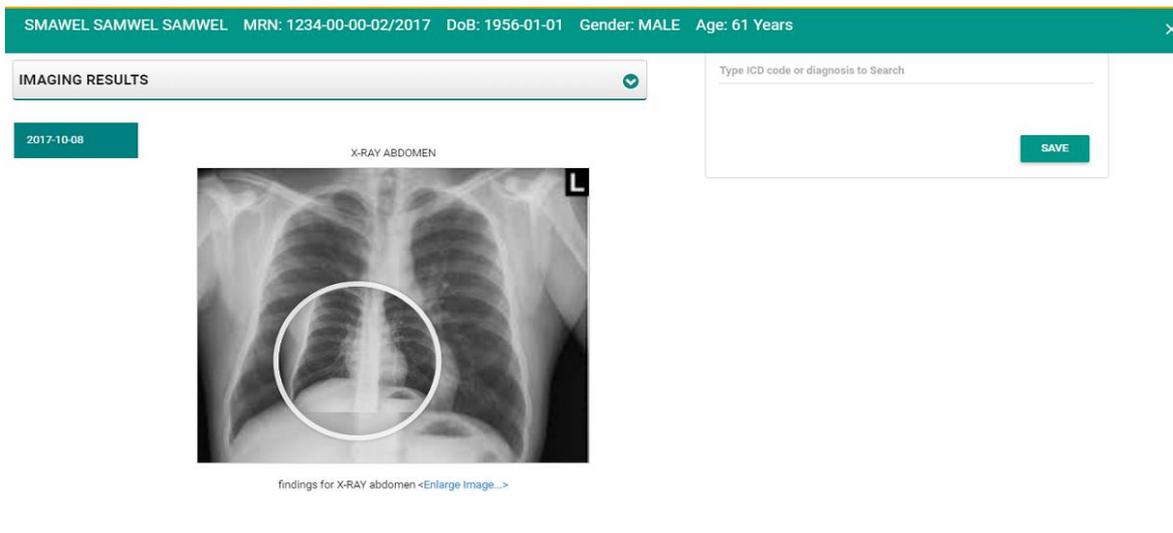
Confirmed Diagnosis

Type ICD code or diagnosis to Search

confirm diagnosis

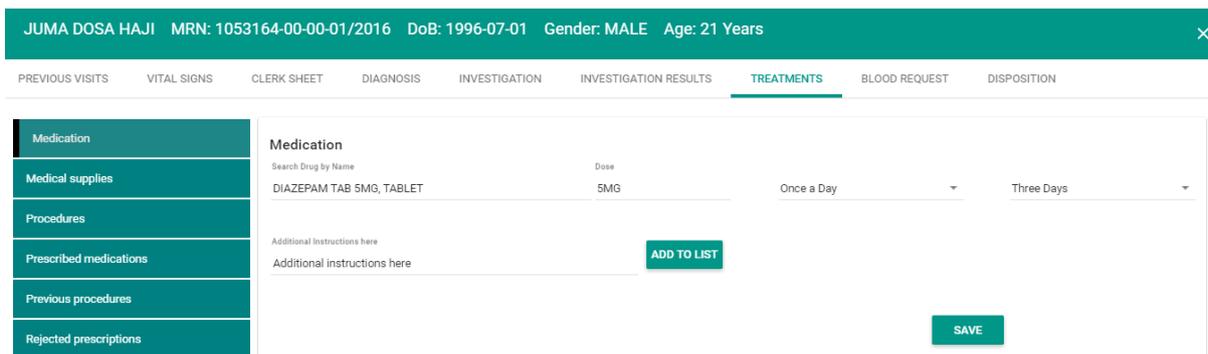
SAVE

Figure 106. Imaging/radiology results



Treatment

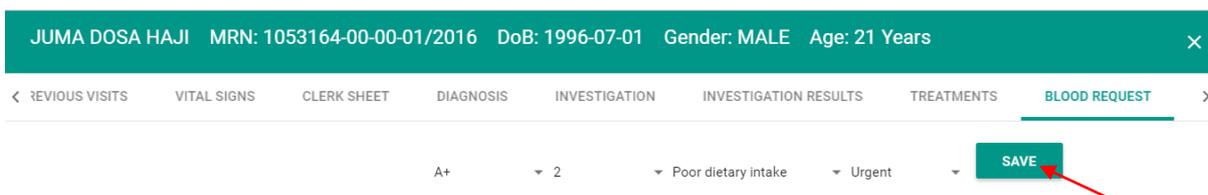
This part enable a doctor to gives medication, medical supplies or procedures to a patient. Doctor will be able to see all prescribed medications, previous procedures and rejected prescription.



Blood request

It is where the patient need for blood is requested and the request goes to the blood bank.

Figure 107. Blood request

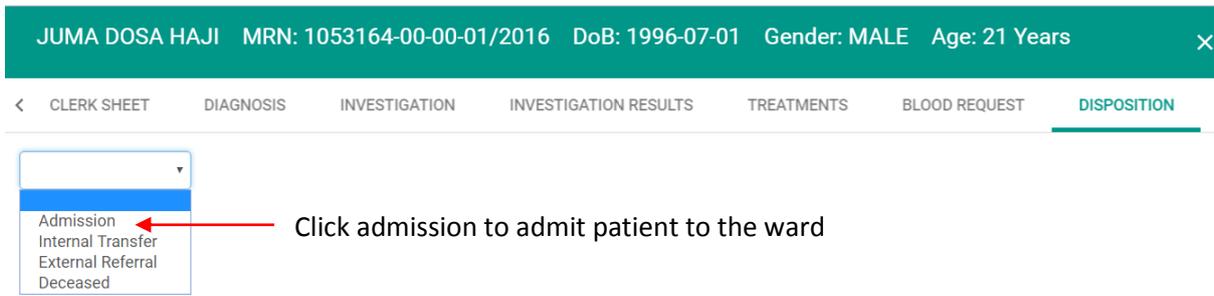


Click save to request blood

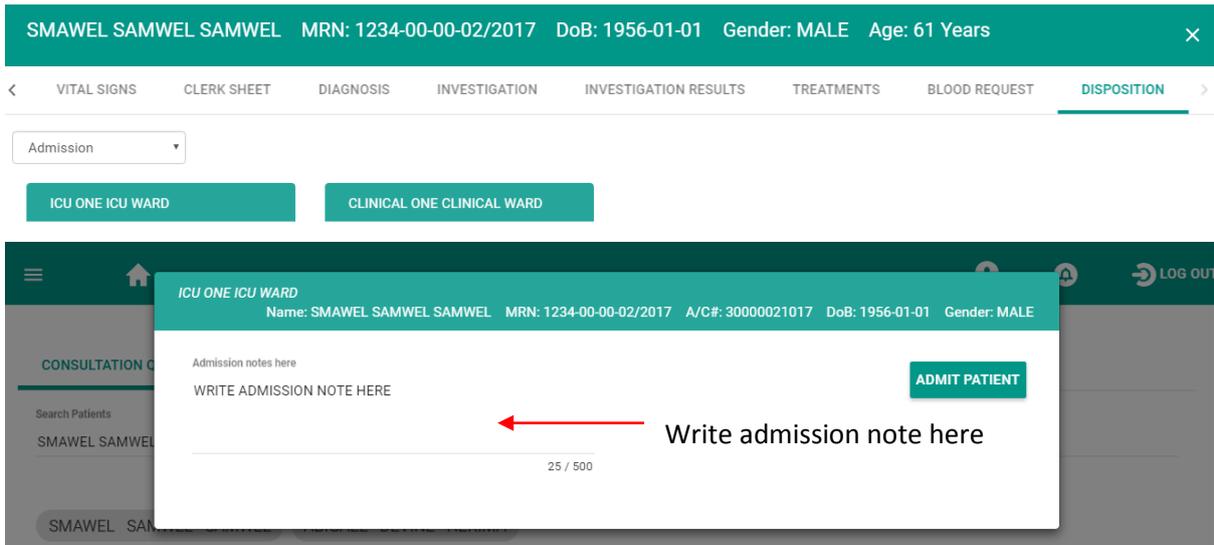
Disposition

On disposition a patient can be admitted to the ward, transferred to other clinic, referred to external hospital or deceased to mortuary.

Figure 108. Disposition



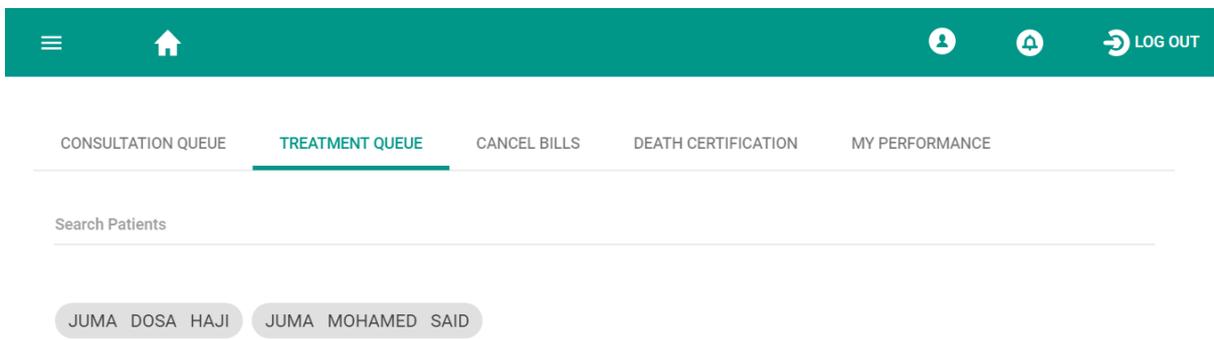
On admission, the doctor admits the patient by writing the admission note and select a ward that a patient will be admitted.



TREATMENT QUEUE

Treatment queue contains a list of patients who have already gone through the laboratory for investigation and they are waiting to get diagnosis confirmation from the doctor so as to receive treatment. Diagnosis is confirmed under diagnosis sub module and medication is provided on treatment.

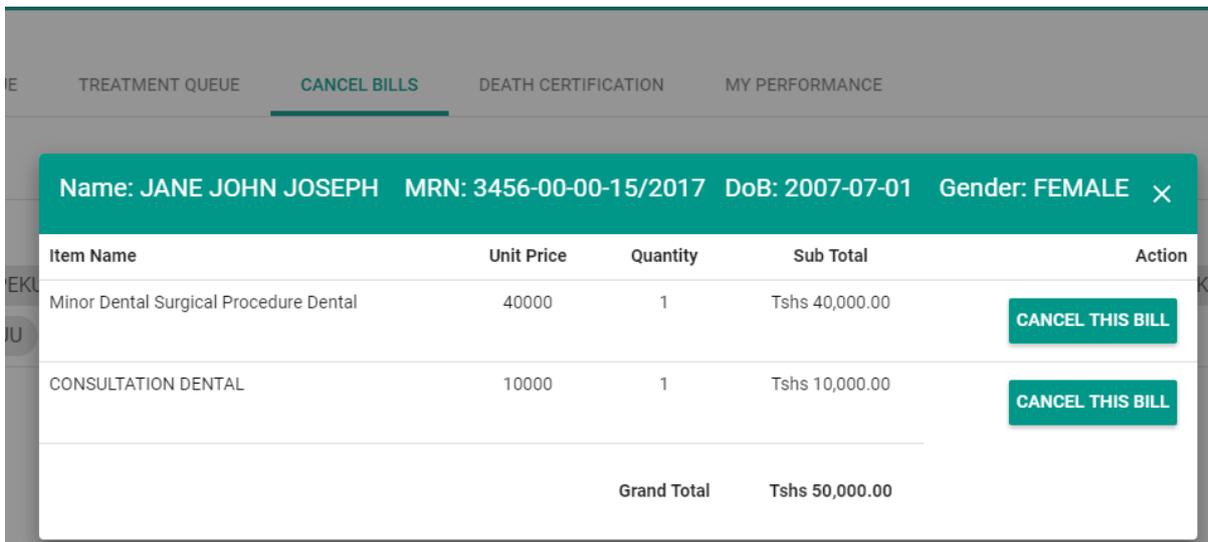
Figure 109. Treatment queue



CANCEL BILLS

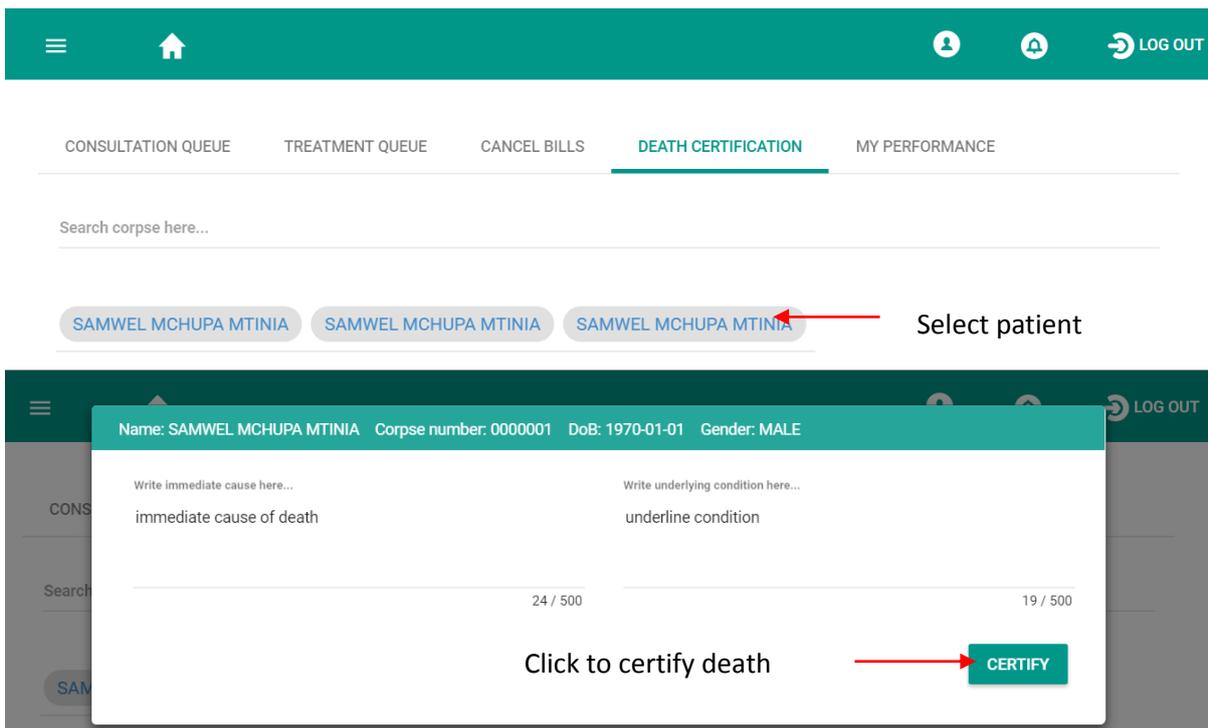
Cancel bills contains a list of patients' pending bills whereby these investigation bills are either not important for the patient to undergo with or a certain patient as failed to make payments for a particular investigation bill.

Figure 110. Cancel bill



DEATH CERTIFICATION

Death certification involves a list of corpse who are coming outside the facility and have been registered by receptionist and they await to be certified by the doctor, this certification allows the doctor to fill in the immediate cause of death of a particular corpse and underlying conditions for that death.



MY PERFORMANCE

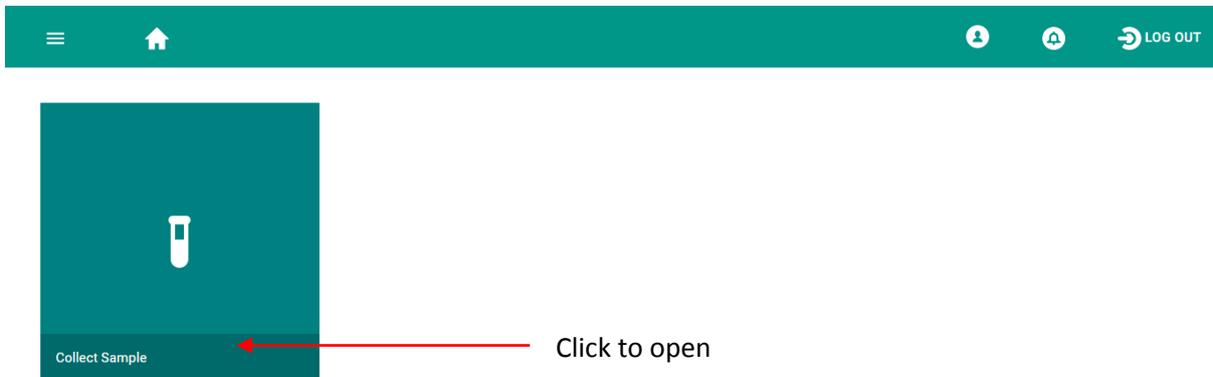
This section gives out the performance evaluation report of a particular doctor depending on a specific date and time.

COLLECT SAMPLE

LABORATORY INVESTIGATION

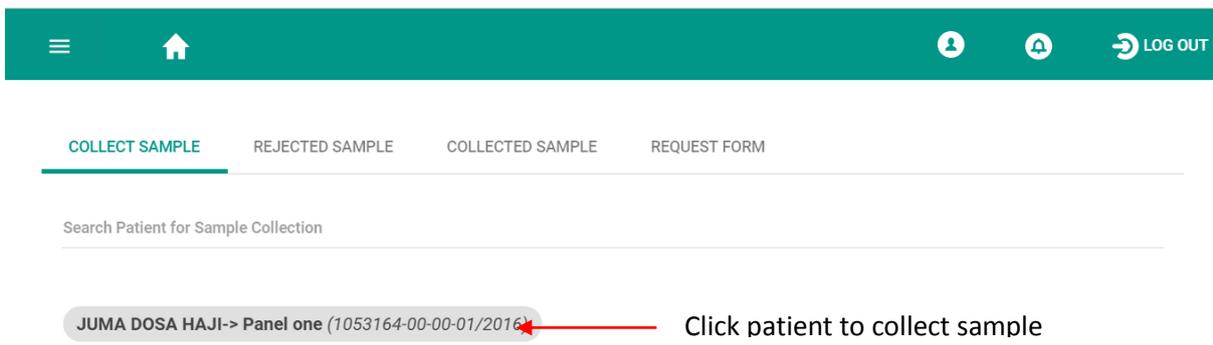
Patient sample is collected under collect sample module

Figure 111. Collect sample

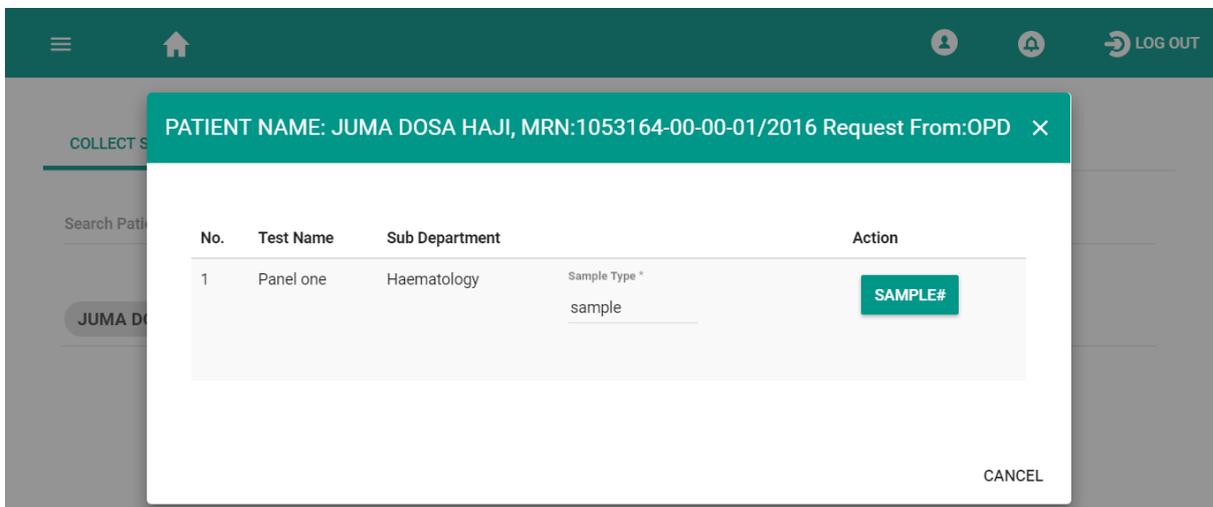


All rejected sample will be listed on rejected sample sub module, list of all collected sample are listed on collected sample tab.

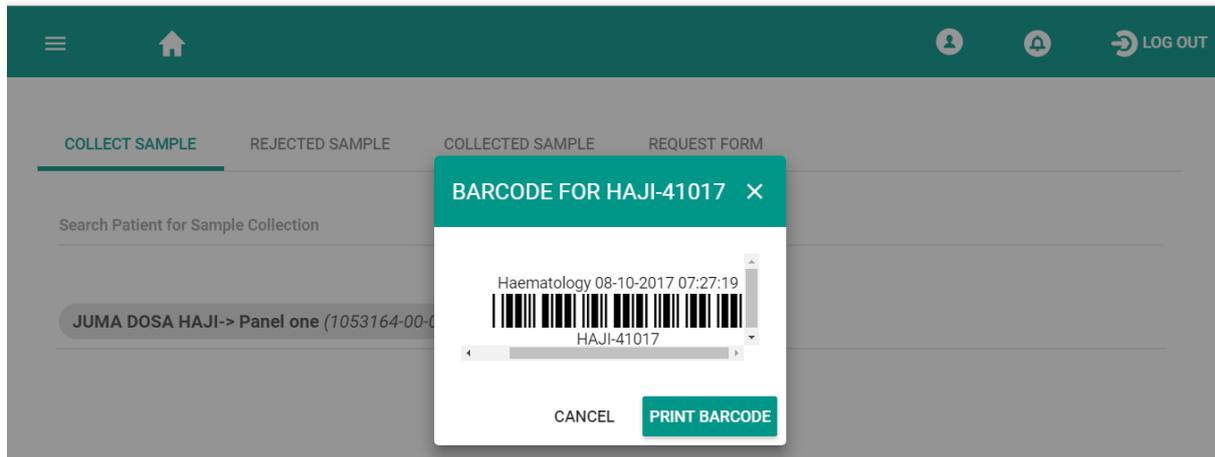
Request form sub module contains all request forms for sample collection



Collect patient sample then click sample to save



The system will automatically generate barcode for patient sample

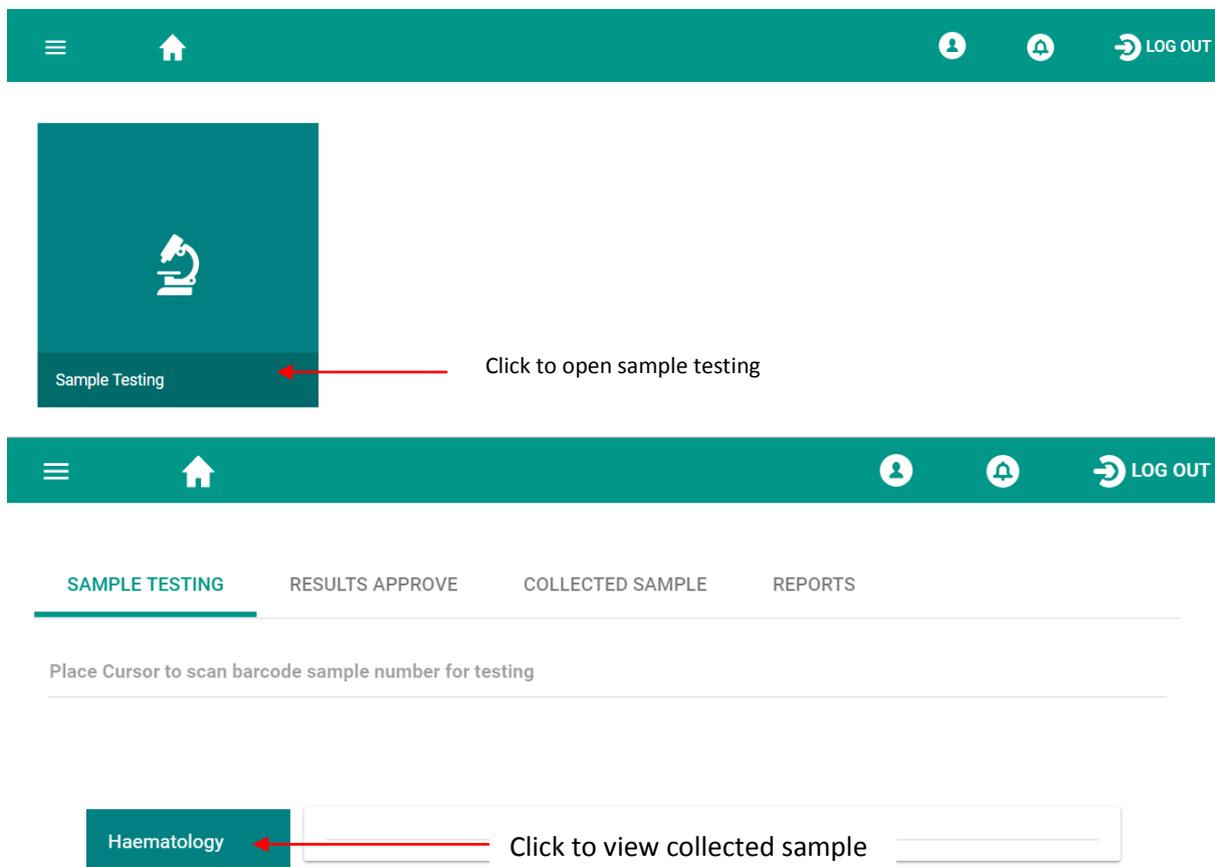


SAMPLE TESTING

After collecting sample, that sample is tested and verified on sample testing sub module tab.

For the lab sample to be viewed and tested access must be given to the users' configuration on lab setting tab.

2. Figure 112. Sample testing



Place Cursor to scan barcode sample number for testing

Haematology JUMA MOHAMED SAID (11017):HAEMOGLOBIN(HB) Click to test sample

Figure 113.investigation form

		Age: 34 Years	
		Residential Address:	
Request to: HAEMATOLOGY		Clinic/Ward:	
Request Date	Requested By	Doctor Contact	
Type of Specimen:		Date Collected: 02-09-2017	Time:04:00
Collected By:			
Clinical Notes relevant for the investigation requested			
Diagnosis		Investigation Requested	
Diagnosis		HAEMOGLOBIN(HB)	
Specimen Number: 11017	Date Received:.....	Time Received:	Received By:

Write results for the investigation done

Investigation results SAVE Reject

Write lab investigation results Here, then click save

SAMPLE TESTING RESULTS APPROVE COLLECTED SAMPLE REPORTS

Place Cursor to scan barcode sample number

Haematology JUMA MOHAMED SAID SAMPLE NUMBER: 11017

PATIENT NAME: JUMA MOHAMED SAID SAMPLE NUMBER: 11017 ✕

Choose Files download.jpg

Remarks

remarks

CANCEL SAVE RESULTS

Click to save results

These investigation results will be viewed by the doctor in the investigation results tab.

After testing the sample, sample results are approved

[SAMPLE TESTING](#) **[RESULTS APPROVE](#)** [COLLECTED SAMPLE](#) [REPORTS](#)

Place Cursor to scan barcode sample number for test approve

JUMA MOHAMED SAID-HAEMOGLOBIN(HB) (11017)

2017-10-02		JOHN FREDRICK KIMARIO	
Type of Specimen: JUMA SAMPLE	Date Collected:2017-10-02	Time Collected: 02:01:02	Collected By: john fredrick kimario
Clinical Notes relevant for the investigation requested			
SUMMARY HERE			
Diagnosis		Investigation Requested	
		HAEMOGLOBIN(HB)	
Specimen Number: 11017	Date Received:	Time Received:	Received By:

Investigation Report

remarks

[Preview](#) → Preview to approve the investigation results

If the investigation results are found correct they will be approved. The system allow user to reject investigation results if found incorrect. The rejected sample will go back to sample collector.

[SAMPLE TESTING](#) **[RESULTS APPROVE](#)** [COLLECTED SAMPLE](#) [REPORTS](#)

Place Cursor to scan barcode sample number for test approve

JUMA MOHAMED SAID-HAEMOGLOBIN(HB) (11017)

PATIENT NAME: JUMA MOHAMED SAID SAMPLE NUMBER: 11017 ✕

Description: remarks

[REJECT](#) [APPROVE](#)

RADIOLOGY/IMAGING INVESTIGATION

Investigation to imaging department through system involve automation generation of request forms from system. Doctor on investigation tab initiate the process. The doctor click respective sub department and choose required investigation according to patient situation.

To request investigation doctor write clinical notes and specify whether it is urgent or routine investigation

<input type="checkbox"/> X-Ray Thoracic Spine - (AP And Lateral) - 10000 Tshs	<input type="checkbox"/> X-Ray Thoracic Spine - Oblique - 10000 Tshs	<input checked="" type="checkbox"/> X-Ray Toe (AP & Lateral) - 10000 Tshs
<input type="checkbox"/> X-Ray Whole Spine And Pelvis (AP & Lateral) - 20000 Tshs	<input type="checkbox"/> X-Ray Wrist (AP & Lateral) - 10000 Tshs	<input type="checkbox"/> barium swallow - 50000 Tshs

Selected orders

Write clinical summary here...
clinical summary

Routine

SAVE

X-Ray Toe (AP & Lateral) - 10000 Tshs

14 / 500

SMAWEL SAMWEL SAMWEL MRN: 1234-00-00-02/2017 DoB: 1956-01-01 Gender: MALE Age: 61 Years

- PREVIOUS VISITS
- VITAL SIGNS
- CLERK SHEET
- DIAGNOSIS
- INVESTIGATION**
- INVESTIGATION RESULTS
- TREATMENTS
- BLOOD REQUEST
- DISPOSITION

- Haematology
- Microbiology
- Clinical Chemistry
- Serology
- Parasitology
- TB
- Immunology
- X-RAY**

Search here...

X-RAY ABDOMEN - 1000 Tshs

Write clinical summary here...

CLINICAL SUMMARY

Urgent

SAVE

Selected orders

X-RAY ABDOMEN - 1000 Tshs

16 / 500

All investigations requests sent by the doctor to radiology will be seen in digital radiography dashboard

Navigation bar with icons: Home, Profile, Notifications, Logout

Digital Radiograph

- DIGITAL RADIOGRAPH**
- INVESTIGATION VERIFICATION
- INVESTIGATION REPORTS

Search Patient

Digital radiograph dash board

S SMAWEL SAMWEL SAMWEL - X-RAY ABDOMEN

The system will generate radiology request form which displays in imaging sub department

Figure 114. Request form

The screenshot shows a web application interface for a radiology request form. At the top, a teal header bar contains patient information: "SMAWEL SAMWEL SAMWEL MRN: 1234-00-00-02/2017 DoB: 1956-01-01 Gender: MALE Age: 61 Years". Below this is a navigation bar with three tabs: "PATIENT REQUEST FORM" (selected), "MESSAGE NOTIFICATION", and "IMAGING REPORTS". The main content area is titled "Radiology Request Form" and includes the following fields: "Requested By : Happy", "Department: OPD Time : 2017-10-09 00:56:28 Priority : Urgent", "Investigation Name : X-RAY ABDOMEN", and "Clinical Notes: CLINICAL SUMMARY". There is a checkbox for "Findings Only" which is currently unchecked. Below this is a file upload section with a "Choose Files" button and a file named "download.jpg". At the bottom, there is a text area labeled "Radiological Findings For X-RAY ABDOMEN".

Investigation verification

Doctor must verify investigations in order to avoid updating incorrect information. After verifying investigation, doctors will be able to see images and findings

The screenshot shows a mobile application interface. At the top, there is a teal header bar with a home icon, a user profile icon, and a "LOG O" button. Below this is a grey bar with the text "Digital Radiograph". A modal window is displayed in the center, titled "SMAWEL SAMWEL SAMWEL 1234-00-00-02/2017" with a close button (X). The modal contains a list of items: "Digital Image", "Patients Findings", and "Add Findings". At the bottom of the modal are two buttons: "VERIFY" (teal) and "DELETE" (orange). A "CLOSE" button is located at the bottom right of the modal.

These investigation results will be viewed by the doctor in the investigation results tab.

IN PATIENT

Consultation queue, treatment, death certification and doctor performance

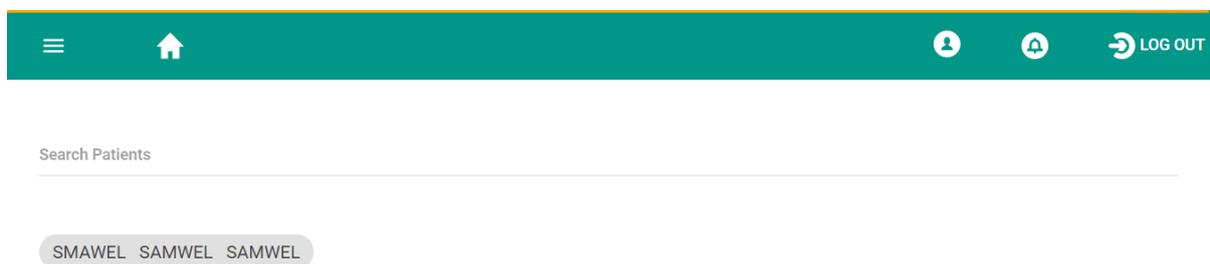
In patient provides diagnosis and care for patients who were admitted to the ward. Inpatient is a sick person who is admitted in the hospital wards.

This module consists of the following sub modules which includes;

Figure 115. In patient



The system has a search option on in patient dash board which allows user to search for a patient. List of admitted patients from nursing care are listed on in patient dash board.

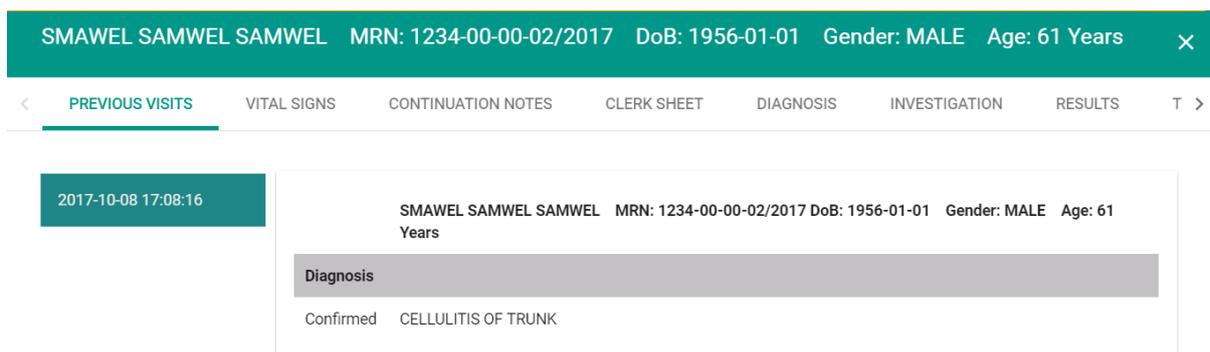


Previous visit

First the doctor looks at the patient's previous visits history. For the new patients, the previous visits history will be seen once the patient is clerked by the doctor.

If it is a new patient, there won't be previous visit history until the patient is clerked is when the patient history will be available

Figure 116. Previous visit



Vital sign

This part enables a doctor to view all vitals that were taken concerning a particular patient.

Figure 117.Vital sign

SMAWEL SAMWEL SAMWEL MRN: 1234-00-00-02/2017 DoB: 1956-01-01 Gender: MALE Age: 61 Years				
PREVIOUS VISITS VITAL SIGNS CONTINUATION NOTES CLERK SHEET DIAGNOSIS INVESTIGATION RESULTS				
2017-10-08 20:37:03	Name	Value	Time taken	Staff's names
	Body Weight	100 Kg	2017-10-08 20:37:03	Happy
	Height or Length	160 cm	2017-10-08 20:37:03	Happy
	Body Temperature	25 °C	2017-10-08 20:37:03	Happy
	Systolic Pressure	89 mmHg	2017-10-08 20:37:03	Happy
	Diastolic Pressure	33 mmHg	2017-10-08 20:37:03	Happy

Continuation Notes

The ward round is a parade through the hospital of professionals where most decision making concerning patient care is made. It provides an opportunity for the multi-disciplinary team to listen to the patient's narrative and jointly interpret the patient's concerns. The senior doctor as round leader must seek the input of nursing whose observations may be under-appreciated due to traditional professional hierarchy. This increases the importance of senior staff in ensuring continuity of care and the need for the joint round as the focus of optimal decision making.

Figure 118.Major ward round

SMAWEL SAMWEL SAMWEL MRN: 1234-00-00-02/2017 DoB: 1956-01-01 Gender: MALE Age: 61 Years	
PREVIOUS VISITS VITAL SIGNS CONTINUATION NOTES CLERK SHEET DIAGNOSIS INVESTIGATION RESULTS	
Major ward-round Service ward-round	<p>Major ward-round</p> <p>Show more... Show less...</p> <p>Write continuation notes here...</p> <p>patient continuation note</p> <hr/> <p>25 / 500</p> <p>SAVE</p>

Service ward round

The service ward round is a parade through the hospital of professionals where most decision making concerning patient care is made. It provides an opportunity for the in charge to listen to the patient's narrative and jointly interpret the patient's concerns.

Figure 119. Service ward round

SMAWEL SAMWEL SAMWEL MRN: 1234-00-00-02/2017 DoB: 1956-01-01 Gender: MALE Age: 61 Years

PREVIOUS VISITS VITAL SIGNS CONTINUATION NOTES CLERK SHEET DIAGNOSIS INVESTIGATION RESULTS T

Major ward-round
Service ward-round

Service ward-round

Show more... Show less...

Write continuation notes here...

continuation notes

18 / 500

SAVE

Clerk sheet

This is where doctor discuss with the patient about the illness. After discussing the doctor will be able to search the complaints and duration of the occurrence of that complaints according to what the patient said apart from searching the complaints, the system enable doctor to write the complaints in details from what was heard from the patient.

Figure 120. Complains

SMAWEL SAMWEL SAMWEL MRN: 1234-00-00-02/2017 DoB: 1956-01-01 Gender: MALE Age: 61 Years

PREVIOUS VISITS VITAL SIGNS CLERK SHEET DIAGNOSIS INVESTIGATION INVESTIGATION RESULTS TREATMENTS BLOOD REQUEST

Complains
History of presenting illness
Review of other systems
Past medical and surgical history
General examination
Local examination
Systemic examination

Complains

Search Chief Complaints 3 Day(s) ADD

Weight loss for 3 Days
 Headaches for 3 Days
Other complains
diarrhea and loss of appetite

29 / 500

Click save after recording all complains → SAVE

Doctor will write the history of presenting illness here and take a review of other system to check if there is any inconsistency.

Figure 121. History of presenting illness

The screenshot shows a patient record for SMAWEL SAMWEL SAMWEL (MRN: 1234-00-00-02/2017, DoB: 1956-01-01, Gender: MALE, Age: 61 Years). The 'CLERK SHEET' tab is active. On the left, a sidebar lists navigation options: Complaints, History of presenting illness (selected), Review of other systems, Past medical and surgical history, and General examination. The main content area is titled 'History of presenting illness' and contains a text input field with the placeholder 'Write PHI here...' and the text 'history of presenting illness'. A character count '29 / 500' is visible. A 'SAVE' button is located at the bottom right.

Figure 122. Review of other system

The screenshot shows the same patient record. The 'CLERK SHEET' tab is active. The sidebar on the left has 'Review of other systems' selected. The main content area is titled 'Review of other systems' and features several search input fields: Search ENT, Search cardiovascular, Search respiratory system, Search gastrointestinal system, Search musculoskeletal syst..., Search genitourinary system, Search central nervous system, and Search endocrine system. Below these is a 'RoS summary' field with a red arrow pointing to it and the instruction 'Write summary of review of other systems (ROS)'. A character count '0 / 500' is shown. A 'SAVE' button is at the bottom right.

The doctor will write any past medical and surgical history of that patient and be able to search for any allergy to that patient. If it happens that a patient is allergic to something, the allergy message will pop up to the treatment tab to remind the doctor when medication is prepared to be given to that patient.

Figure 123. Past medical and surgical history

The screenshot shows a medical software interface for a patient named SMAWEL SAMWEL SAMWEL, MRN: 1234-00-00-02/2017, DoB: 1956-01-01, Gender: MALE, Age: 61 Years. The 'CLERK SHEET' tab is active, showing a sidebar with navigation options: Complaints, History of presenting illness, Review of other systems, Past medical and surgical history (selected), General examination, Local examination, and Systemic examination. The main content area is titled 'Past medical and surgical history' and contains three text input fields: 'Write past surgical history here...' (with 'past surgical history' entered), 'Write past admissions history here...' (with 'past admission history' entered), and 'Write blood transfusion history here...' (with 'blood transfusion history' entered). Below these are three character count indicators: '21 / 500', '22 / 500', and '25 / 500'. There is also a section for 'Write immunisation/supplement here...' with 'Immunization' entered and a character count of '12 / 500'. An 'Allergies' section is visible with a search bar containing 's', a dropdown menu showing 'Sulphur Drugs', and a 'SAVE' button. A 'Search allergies' button is also present.

General examination

General examination concerning a patient illness will be written, local examination will be done where the doctor will investigate a specific area.

Figure 124. General examination

The screenshot shows the same medical software interface, but the 'General examination' section is selected in the sidebar. The main content area is titled 'General examination' and contains a text input field with 'general examination' entered. A character count indicator shows '19 / 500'. A 'SAVE' button is located at the bottom right of the main content area.

Systemic examination

This part enable a doctor to perform systemic examination, systemic examination involves physical touch various system.

Note: the difference between review of other systems and systemic examination is that; system examination involves physical touch.

Figure 125. Systemic examination

SMAWEL SAMWEL SAMWEL MRN: 1234-00-00-02/2017 DoB: 1956-01-01 Gender: MALE Age: 61 Years

Complaints

History of presenting illness

Review of other systems

Past medical and surgical history

General examination

Local examination

Systemic examination

Systemic examination

MUSCULOSKELETAL
RESPIRATORY
CARDIOVASCULAR
GASTROINTESTINAL
GENITOURINARY

Inspection	System	Category	Observation	Actions
	Musculoskeletal	Inspection	chest wall indrawing	Remove
	Musculoskeletal	Palpation	positive patella balotment test	Remove
	Musculoskeletal	Percussion	hyperresonance chest	Remove

Palpation

Percussion

hyperresonance chest

Auscultation

[SAVE](#)

Diagnosis

After clerking a patient, this part enables a doctor to write the possible diagnosis, the possible diagnosis written here will be confirmed by the doctor once the investigation are complete and investigation results are sent to the doctor.

Figure 126. Diagnosis

SMAWEL SAMWEL SAMWEL MRN: 1234-00-00-02/2017 DoB: 1956-01-01 Gender: MALE Age: 61 Years ×

PREVIOUS VISITS
VITAL SIGNS
CONTINUATION NOTES
CLERK SHEET
DIAGNOSIS
INVESTIGATION
RESULTS
T >

<p>Provisional diagnosis</p> <p>ERYTHRASMA L08.1</p>	<p>Differential diagnosis</p> <p>PILONIDAL CYST L05</p>	<p>ERYTHRASMA-- >Provisional ⊖</p> <p>ERYTHRASMA-- >Differential ⊖</p> <p>PILONIDAL CYST-- >Differential ⊖</p>
--	---	--

Save the diagnosis → [SAVE](#)

Investigation

This part enables a doctor to choose what a patient is to be investigated. After choosing the investigation the patient will make payments and go for investigation.

Figure 127. Investigation

JUMA DOSA HAJI MRN: 1053164-00-00-01/2016 DoB: 1996-07-01 Gender: MALE Age: 21 Years

PREVIOUS VISITS VITAL SIGNS CLERK SHEET DIAGNOSIS **INVESTIGATION** INVESTIGATION RESULTS TREATMENTS BLOOD REQUEST DISPOSITION

Haematology
Microbiology
Clinical Chemistry
Serology
Parasitology
X-RAY
ULTRASOUND
ECHO
ECG

Search here...

<input type="checkbox"/> HAEMOGLOBIN(HB) - 4000 Tshs	<input type="checkbox"/> SCKLING TESTING(HB) - 3000 Tshs	<input type="checkbox"/> ESR(HB) - 3000 Tshs
<input type="checkbox"/> FBP - 10000 Tshs	<input checked="" type="checkbox"/> Panel one - 10000 Tshs	
<input type="checkbox"/> HAEMOGLOBIN(HB) - 4000 Tshs	<input type="checkbox"/> SCKLING TESTING(HB) - 3000 Tshs	<input type="checkbox"/> ESR(HB) - 3000 Tshs
<input type="checkbox"/> FBP - 10000 Tshs	<input type="checkbox"/> Panel one - 10000 Tshs	

Selected orders Panel one - 10000 Tshs

Write clinical summary here... clinical summary **Write clinical summary** Urgent **SAVE**

Choose status

Results

Results of what had been investigated from the Laboratory/Radiology is returned to the doctor, the doctor views the investigation results, the results will assist doctor to confirm diagnosis and make treatment.

Figure 128. Lab Investigation results

JUMA DOSA HAJI MRN: 1053164-00-00-01/2016 DoB: 1996-07-01 Gender: MALE Age: 21 Years

PREVIOUS VISITS VITAL SIGNS CLERK SHEET DIAGNOSIS INVESTIGATION **INVESTIGATION RESULTS** TREATMENTS BLOOD REQUEST DISPOSITION

LAB RESULTS

Investigation	Description	Attachment	Remarks	Verifier	Date
2017-10-02	HAEMOGLOBIN(HB)	remarks	ATTACHMENT	Super Admin	

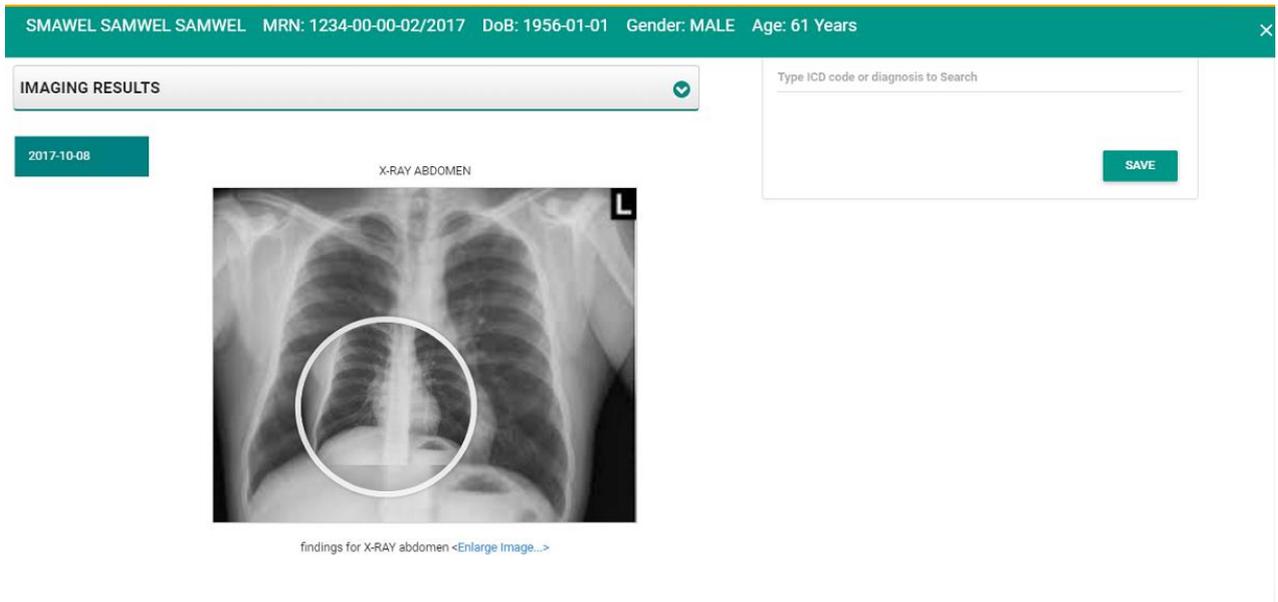
Confirmed Diagnosis

Type ICD code or diagnosis to Search

confirm diagnosis

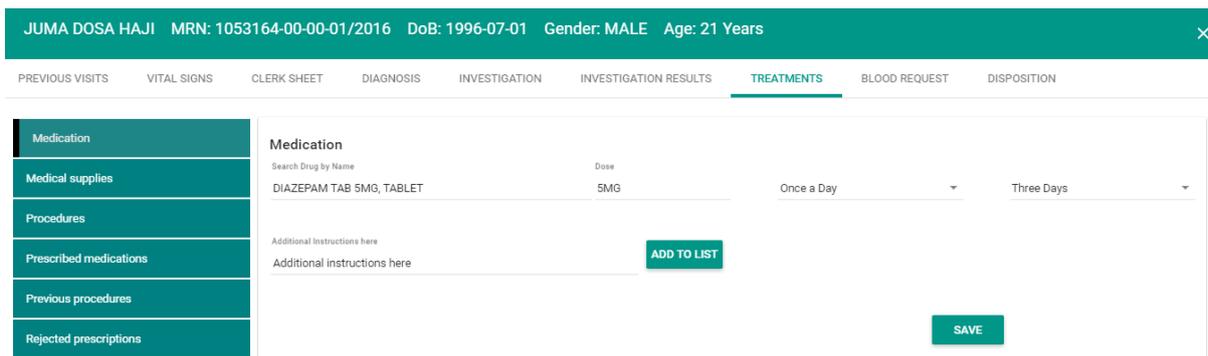
SAVE

Figure 129.Imaging/Radiology results



Treatment

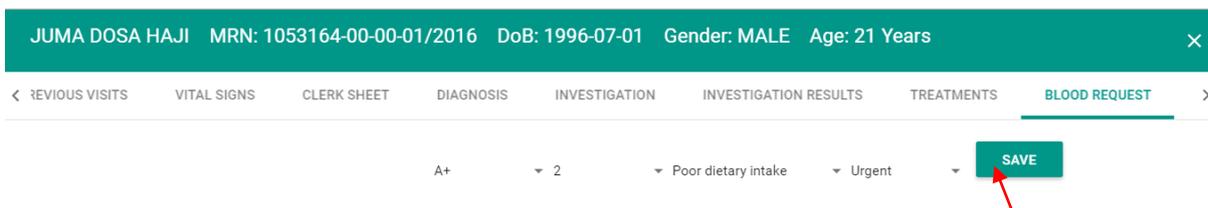
This part enable a doctor to gives medication, medical supplies or procedures to a patient. Doctor will be able to see all prescribed medications, previous procedures and rejected prescription.



Blood request

It is where the patient need for blood is requested and the request goes to the blood bank.

Figure 130. Blood request



Click save to request blood

Disposition

On disposition a patient can be discharged, transferred to other clinic, referred to external hospital or deceased to mortuary.

Figure 131. Disposition

SMAWEL SAMWEL SAMWEL MRN: 1234-00-00-02/2017 DoB: 1956-01-01 Gender: MALE Age: 61 Years

PREVIOUS VISITS VITAL SIGNS CONTINUATION NOTES CLERK SHEET DIAGNOSIS INVESTIGATION RESULTS TREATMENTS BLOOD REQUEST **DISPOSITION**

Discharge
Internal Transfer
External Referral
Deceased

Figure 132. Discharge

SMAWEL SAMWEL SAMWEL MRN: 1234-00-00-02/2017 DoB: 1956-01-01 Gender: MALE Age: 61 Years

PREVIOUS VISITS VITAL SIGNS CONTINUATION NOTES CLERK SHEET DIAGNOSIS INVESTIGATION RESULTS TREATMENTS BLOOD REQUEST **DISPOSITION**

Discharge

GENERATE REPORT

Facility info	 IsanzuA REGIONAL REFERRAL HOSPITAL, p.o.box 2345, isanzuA@dodoma.go.tz
Patient info	SMAWEL SAMWEL SAMWEL MRN: 1234-00-00-02/2017 DoB: 1956-01-01 Gender: MALE Age: 61 Years
Doctor's name	

DISCHARGE THIS PATIENT

Patient discharge

The system allows the doctor to give permission of discharging a patient and there after nurse will complete the action of discharging patient

Figure 133. Patient discharge report

SMAWEL SAMWEL SAMWEL MRN: 1234-00-00-02/2017 DoB: 1956-01-01 Gender: MALE Age: 61 Years

PREVIOUS VISITS VITAL SIGNS CONTINUATION NOTES CLERK SHEET DIAGNOSIS INVESTIGATION RESULTS TREATMENTS BLOOD REQUEST **DISPOSITION**

Discharge

GENERATE REPORT

Facility info	 IsanzuA REGIONAL REFERRAL HOSPITAL, p.o.box 2345, isanzuA@dodoma.go.tz
Patient info	SMAWEL SAMWEL SAMWEL MRN: 1234-00-00-02/2017 DoB: 1956-01-01 Gender: MALE Age: 61 Years
Diagnosis	
Confirmed	CELLULITIS OF TRUNK
Diagnosis IPD	
Provisional	ERYTHRASMA
Differential	ERYTHRASMA
Differential	PILONIDAL CYST
Doctor's name	

DISCHARGE THIS PATIENT

WARD MANAGEMENT

Ward management is a module responsible for the management of a hospital ward.

Nurse or ward manager is the responsible person under this module.

It is a part of the In-Patient Module and is used to set wards, to locate beds and to assign nurse to ward.

Ward creation

This part is responsible for creating wards. In order to create ward open ward management, then register ward type and ward grade

Go to accommodation fee tab then search for ward grade to set price,

Create ward by writing ward name, search ward type and ward class then register ward.

Figure 134.ward management

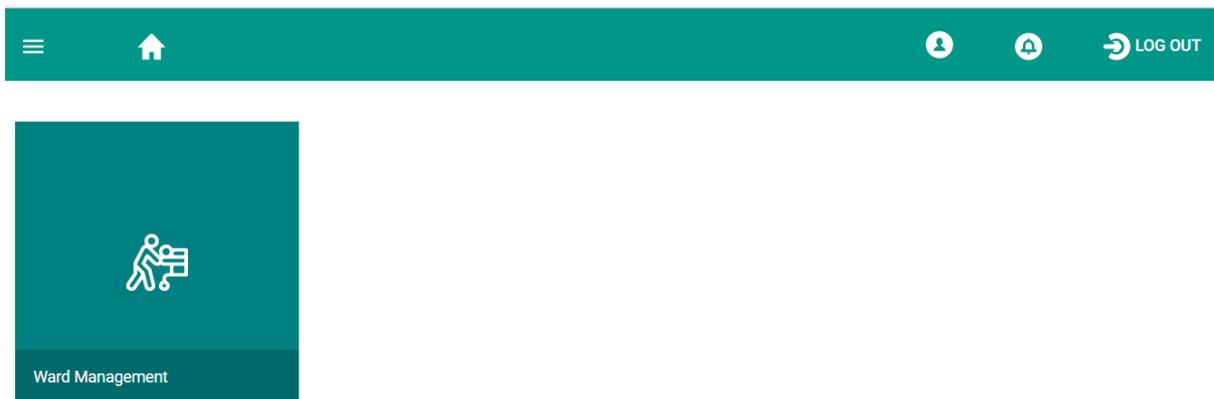


Figure 135.Ward type

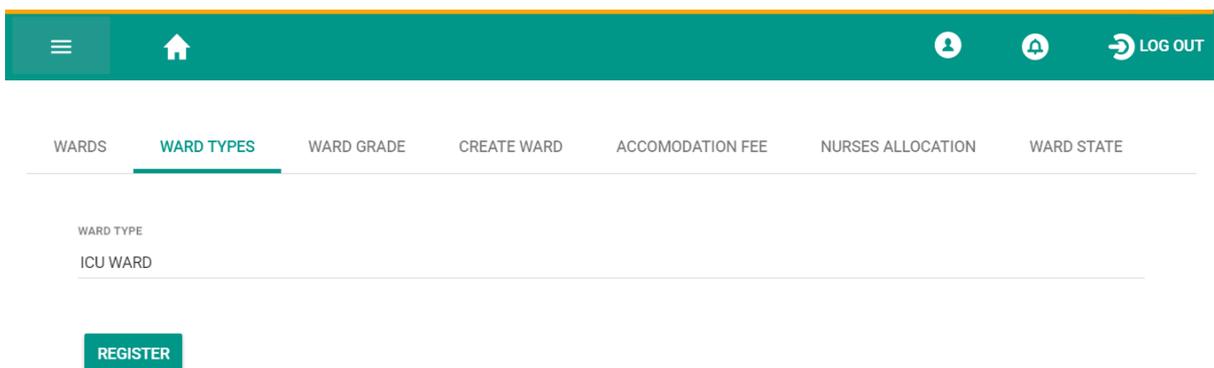


Figure 136. Ward grade

WARDS WARD TYPES **WARD GRADE** CREATE WARD ACCOMODATION FEE NURSES ALLOCATION WARD STATE

WARD GRADE
GRADE A

REGISTER

Figure 137. Fee accommodation

WARDS WARD TYPES WARD GRADE CREATE WARD **ACCOMODATION FEE** NURSES ALLOCATION WARD STATE

Search for any ward grade to set price
GRADE A

REFERRAL: 20000 SELF REFERRAL: 30000 NHIF: 25000 HOSPITAL SHOP:

Starting Year 2017-10-02 Ending Year 2017-10-31

SAVE

Figure 138. Create ward

WARDS WARD TYPES WARD GRADE **CREATE WARD** ACCOMODATION FEE NURSES ALLOCATION WARD STATE

WARD NAME ICUWARD1 WARD TYPES ICU WARD WARD CLASS GRADE A

SAVE

Figure 139. List of wards

No.	NAME OF THE WARD	WARD TYPE	ACTION
1	ICU ONE	ICU WARD	VIEW BEDS
2	CLINICAL ONE	CLINICAL WARD	VIEW BEDS

Nurse allocation

Nurse allocation tab is where nurse is assigned the access to ward

Figure 140. Nurse allocation

Nurse Assignment

WARD NAME: ICU ONE ICU WARD

NURSE NAME*: Happy -789889900 NURS X

ALLOCATE

To create bed open wards tab, click view beds then enter bed name and bed type then save
Under ward tab is where list of beds are displayed.

Figure 141. CREATE BED

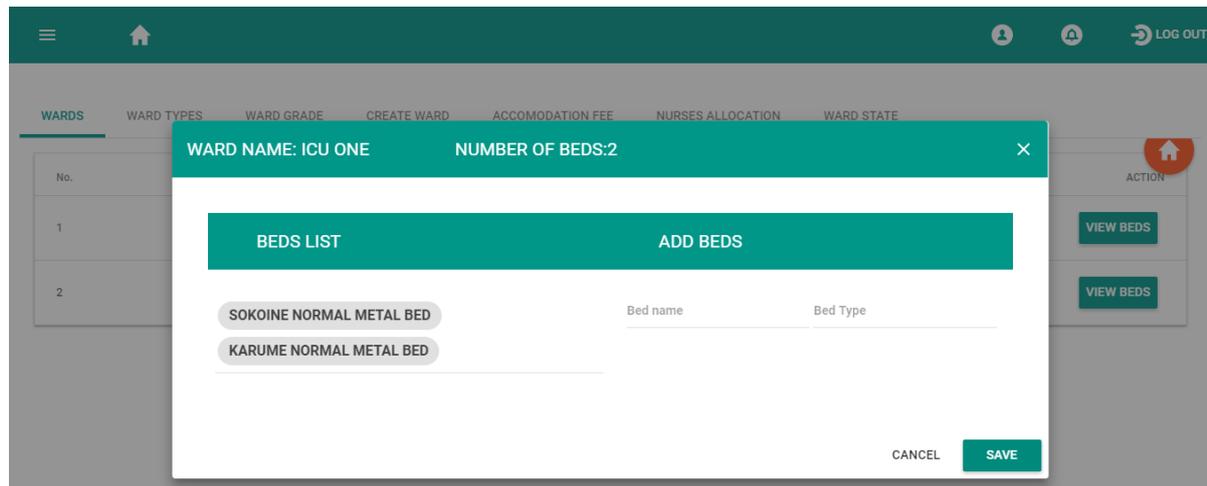
WARD NAME: ICU ONE NUMBER OF BEDS:0

BEDS LIST ADD BEDS

Bed name: KARUME Bed Type: NORMAL METAL BED

CANCEL SAVE

Figure 142. Bed lists



NURSING CARE

Nursing care is a care provided by a registered nurse for patients. This module consist of sub modules such as admission request, admitted, diagnosis, nursing care plans, and treatment. Charting, collect sample, reports and discharge.

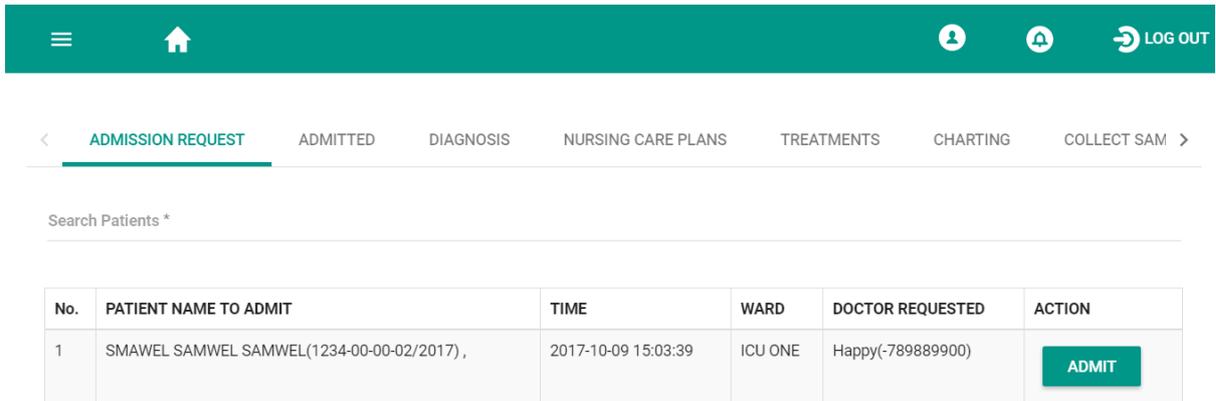
Figure 143.Nursing care



Admission request

Is where the list of admitted patient from the doctor will be found, the role of a nurse under admission request tab is to accept admission request and to assign bed to the admitted patient

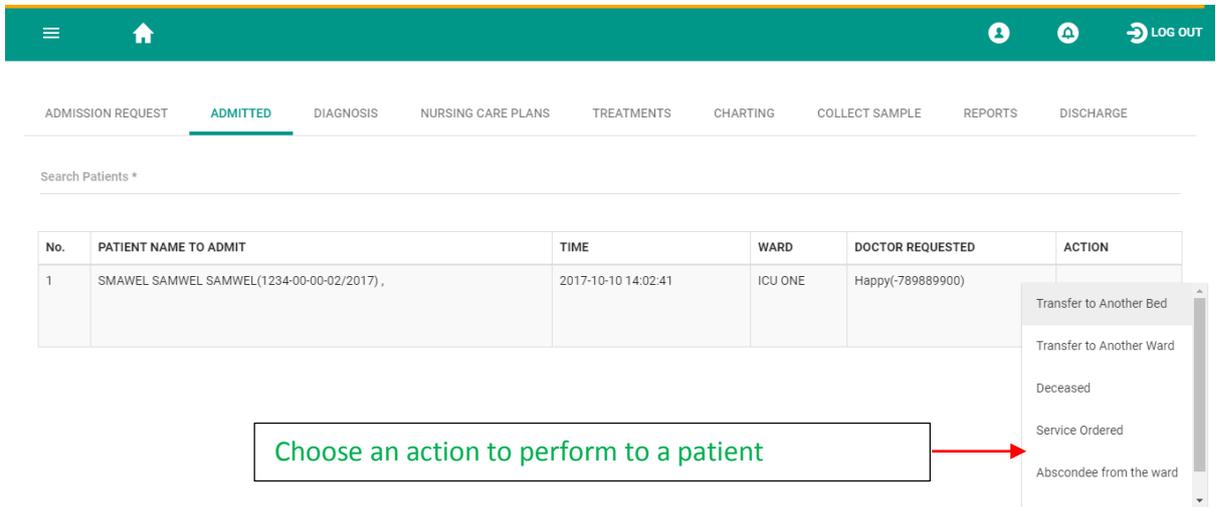
Figure 144. Admission request



Admitted

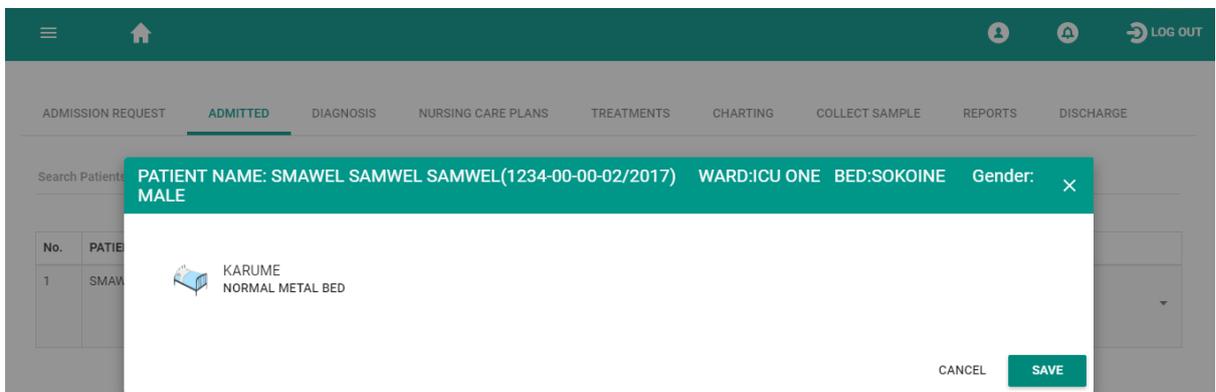
Is a list of all admitted patients, this part allows the nurse to transfer patient to another bed, to transfer patient to another ward, to decessa a patient, to provide all other services ordered to a patient, to deal with patient absconded and serious patients.

Figure 145. Admitted patients



Transfer patient to another bed

Nurse will choose a bed where the patient will be transferred



Transfer patient to another ward

The nurse is able to transfer patient to another ward and write reasons for the transfer

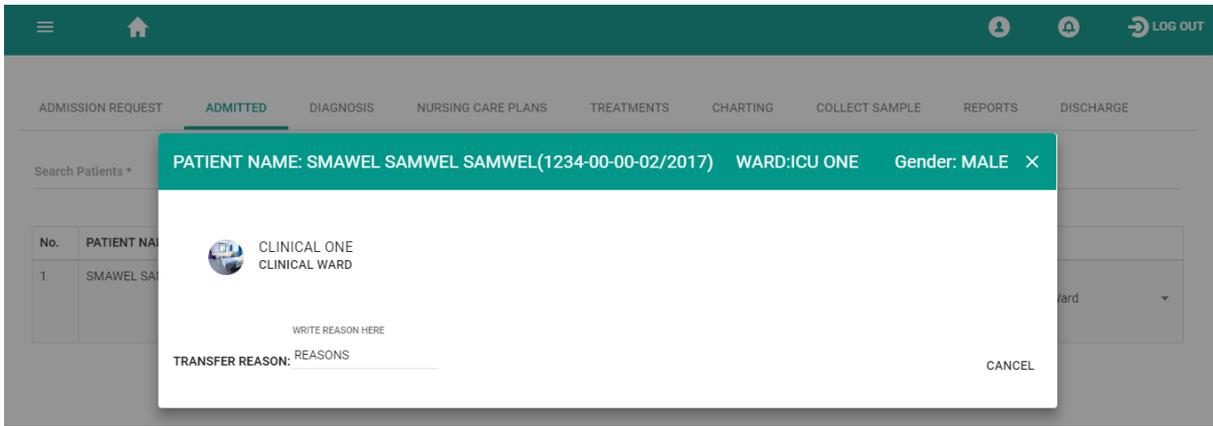
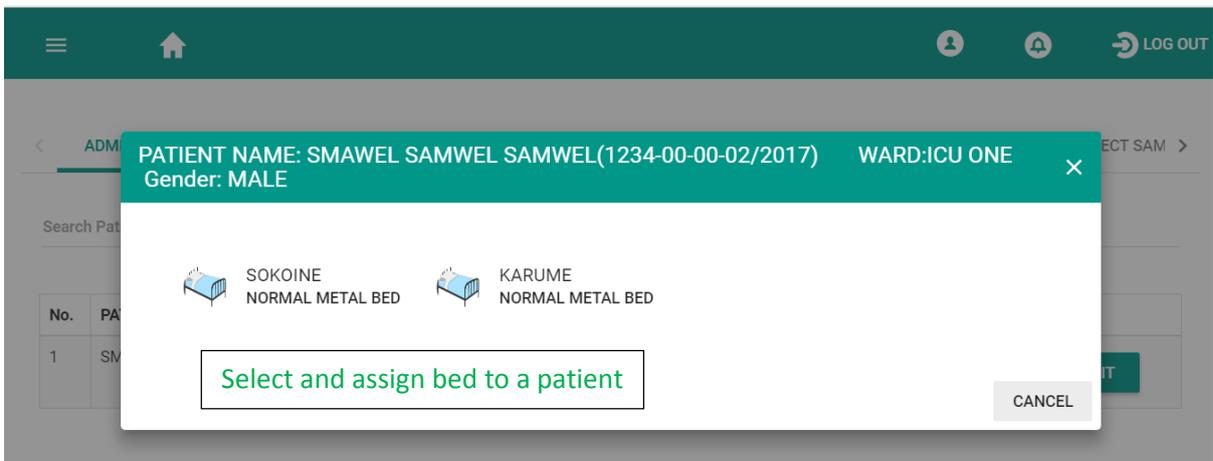


Figure 146. Beds



Service ordered

PATIENT NAME: SMAWEL SAMWEL SAMWEL(1234-00-00-02/2017) WARD:ICU ONE BED:SOKOINE Gender: MALE

Search Item to Create Patient B... quantity *

PARACETAMOL 250 MG nul X 5 ADD

No.	SERVICE NAME	QUANTITY	ACTION
1	PARACETAMOL 250 MG	5	REMOVE

SAVE

No.	SERVICE NAME	ORDERED BY	PAYMENT STATUS	TIME REQUESTED
1	CONSULTATION OPD	Happy	UNPAID	2017-10-08 17:09:33
2	X-RAY ABDOMEN	Happy	UNPAID	2017-10-09 00:56:28
3	X-RAY ABDOMEN	Happy	UNPAID	2017-10-10 09:06:37
4	CONSULTATION OPD	Happy	PAID	2017-10-10 10:35:29

CANCEL

Diagnosis

The system through diagnosis tab enable a nurse to view the diagnosis performed to a patient

Search Patients *

No.	PATIENT NAME TO ADMIT	TIME	WARD	DOCTOR REQUESTED	ACTION
1	SMAWEL SAMWEL SAMWEL(1234-00-00-02/2017) ,	2017-10-10 14:02:41	ICU ONE	Happy(-789889900)	VIEW

Click view to see patient diagnosis

Nursing care plan

This sub module enables a nurse to write the nursing plan and to preview those plans.

Discharge

Doctor is the responsible person to give permission to discharge a patient.

This is part enable nurse to discharge a patient after discharge permission from the doctor

Search Patients *

No.	PATIENT NAME TO ADMIT	TIME	WARD	DOCTOR REQUESTED	ACTION
1	SMAWEL SAMWEL SAMWEL(1234-00-00-02/2017) ,	2017-10-09 15:41:06	ICU ONE	Happy(-789889900)	Select ▾

DISCHARGE PERMIT

PATIENT'S NAME: SMAWEL SAMWEL SAMWEL
BED NO:

REG :1234-00-00-02/2017
ADMISSION DATE: 2017-10-09

WARD:ICU ONE
ADDRESS: KIGONGONI, MONDULI

FOLLOW UP DATE

October 2017

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
40	01	02	03	04	05	06	07
41	08	09	10	11	12	13	14
42	15	16	17	18	19	20	21
43	22	23	24	25	26	27	28
44	29	30	31	01	02	03	04
45	05	06	07	08	09	10	11

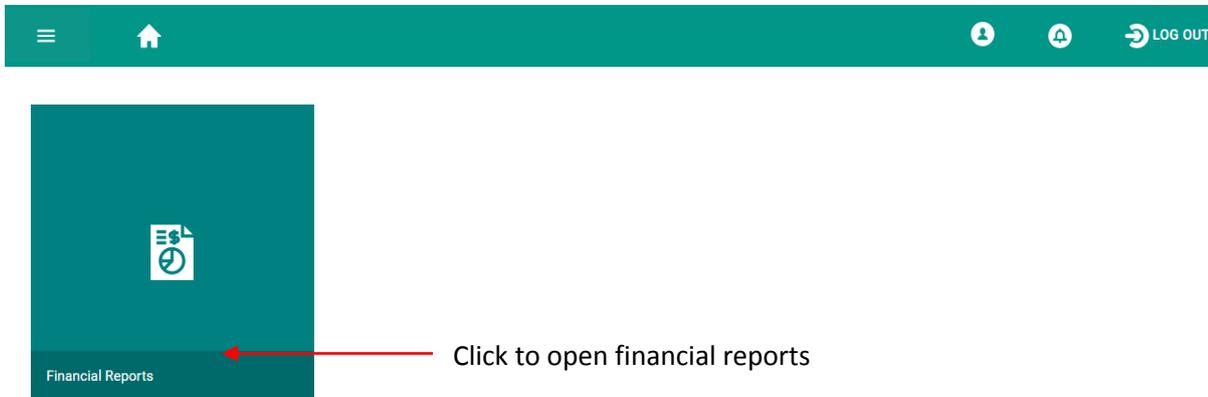
DOMESTIC DOSAGE DESCRIPTIONS

[DISCHARGE](#) [CANCEL](#)

FINANCIAL REPORT

This module is responsible for viewing financial reports at department's level sub-departments level and detailed reports of all transaction made on user fee category. Employee's reports, exemption reports and pending bills can be viewed under this module.

Figure 147. Financial report

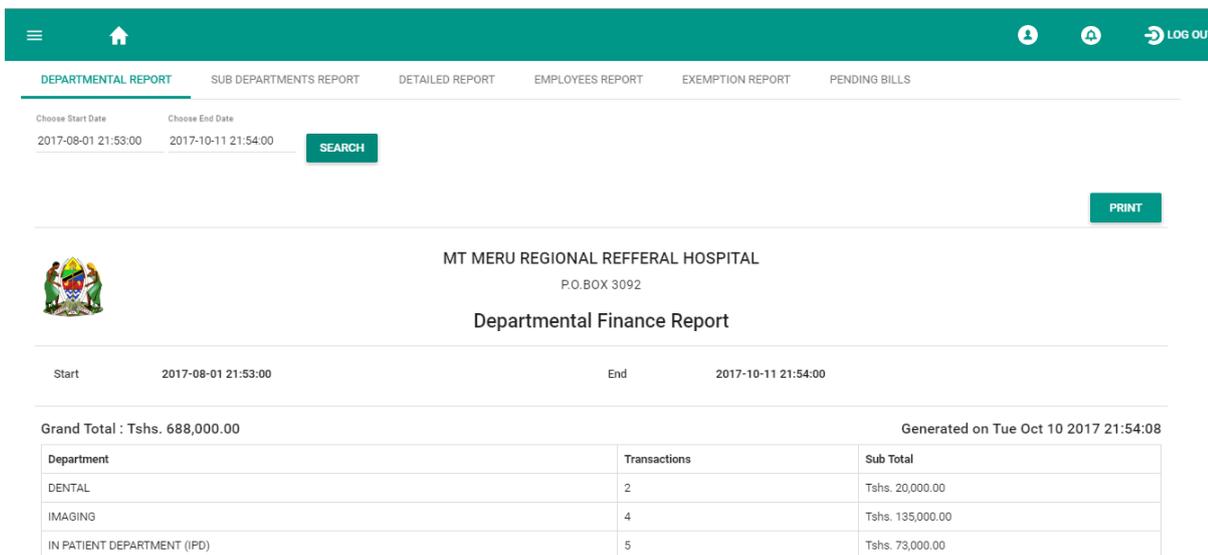


All reports are accessed on the six tabs which are;

DEPARTMENTAL REPORT.

It view all transaction that were made on specific departments e.g. Laboratory, Imaging, and Pharmacy etc.

Figure 148. Departmental report



SUB-DEPARTMENT REPORT.

Sub-department report it show the custom made report which configured on sub-departmental item configuration in item Setup. Here Accountant can able to view all category of transaction according to specific sub-departments.

Figure 149. Sub departmental financial report

DEPARTMENTAL REPORT **SUB DEPARTMENTS REPORT** DETAILED REPORT EMPLOYEES REPORT EXEMPTION REPORT PENDING BILLS

Choose Start Date Choose End Date
 2017-10-01 21:53:00 2017-10-12 21:53:00 **SEARCH**

IsanzuA REGIONAL REFERRAL HOSPITAL
 p.o.box 2345

Sub departments Finance Report

Start 2017-10-01 21:53:00 End 2017-10-12 21:53:00

Grand Total : Tshs. 200.00 Generated on Tue Oct 10 2017 21:56:44

Sub department	Transactions	Sub Total
OPD	2	Tshs. 200.00

PRINT

DETAILED REPORT.

It show details of all transactions made by cashiers to patients. On detail report all informations of bills will be displayed for tracking purpose.

DEPARTMENTAL REPORT SUB DEPARTMENTS REPORT **DETAILED REPORT** EMPLOYEES REPORT EXEMPTION REPORT PENDING BILLS

Choose Start Date Choose End Date
 2017-07-04 22:04:00 2017-10-12 22:04:00 **SEARCH**

Cash Payments

MT MERU REGIONAL REFERRAL HOSPITAL
 P.O.BOX 3092

Detailed Finance Report(Cash)

Start 2017-07-04 22:04:00 End 2017-10-12 22:04:00

Grand Total : Tshs. 715,000.00 Generated On Tue Oct 10 2017 22:04:22

Quick search

Sale ID	MRN	Patient Name	Staff Name	Quantity	Sub Total	Discount	Date	
2	1053164-03-23-66/2017	MARIAM MEDARD MOFULU	kipengere yahaya yusuph	1	Tshs. 12,000.00	Tshs. 0.00	2017-09-19 20:47:49	MORE... PRINT
3	1053164-03-23-67/2017	STRATON JOHN MUSHI	kipengere yahaya yusuph	1	Tshs. 5,000.00	Tshs. 0.00	2017-09-19 20:49:13	MORE... PRINT

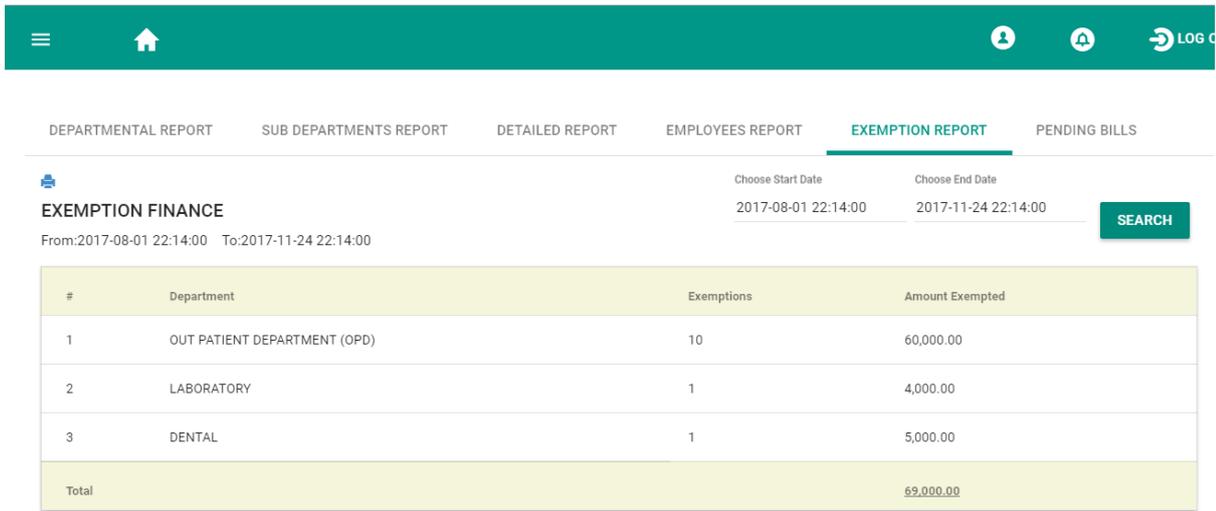
PRINT

Click more to view other

EXEMPTION REPORT.

Exemptions report has all reports of exempted patients in the facilities on their respective departments.

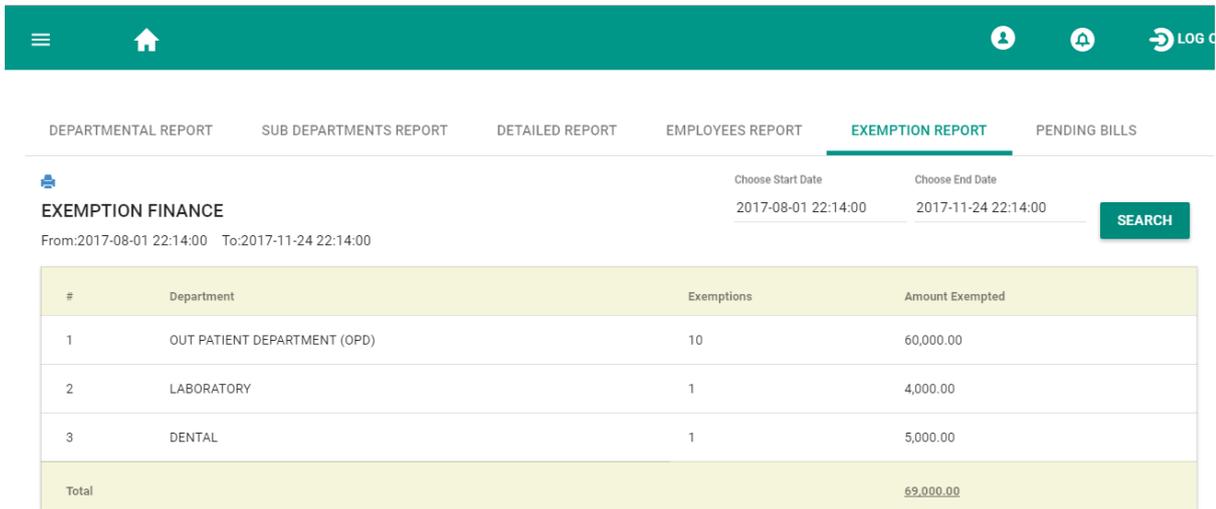
Figure 150. Exemption report



PENDING BILLS.

All pending bills which took more than 48 hours will be displayed.

Figure 151. Pending bills



NOTE: There are different ways to reach to a clinics;

Reception > clinics

Reception> appointment>clinic

Reception>choose Billing/Exemption & service of that clinic >choose clinic from list of clinics>cashier>Appointment>specific clinic

OPD>appointment> payment> clinic

Reception>choose Billing/Exemption & service of that clinic >choose clinic from list of clinics>cashier>OPD>Disposition > respective clinic.

ENVIRONMENTAL HEALTH

Environmental health is a module responsible for managing Notifiable diseases, Anti-rabies vaccination and Handles Environmental cleanliness.

Notifiable diseases deals with All patients suspected and verified that they have affected with those notifiable diseases like cholera are sorted separately with other patients for monitoring them perpendicularly.

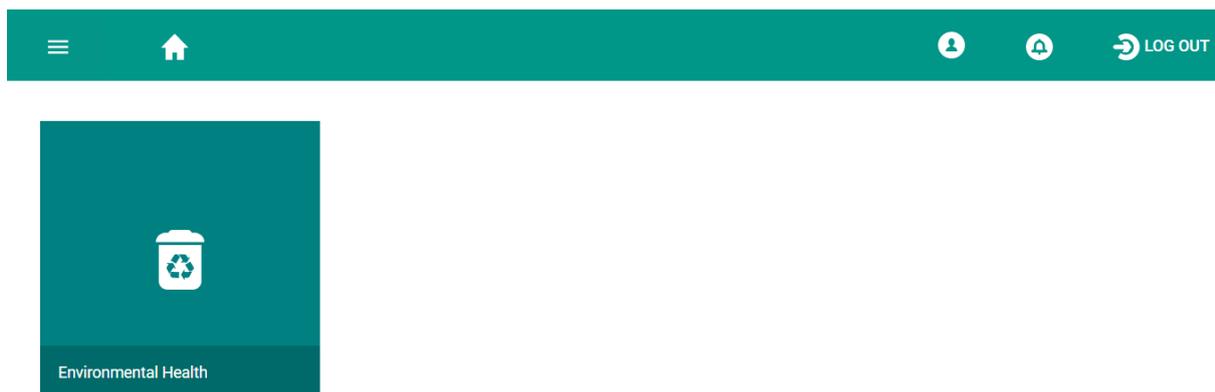
Anti-rabies vaccination deals with proving vaccinations of Anti rabies to all patients bitten by dogs and making follow up to all patients bitten to get vaccination

Environmental cleanliness where it handles equipment's for cleanliness, Wastes collection, Wastes disposal and Nuisances.

Environmental cleanliness includes two main types of equipment's for wastes storage before disposal which are *Bin Liners and Waste Bins*. Each equipment contains its sub equipment

Around the facility there are things which make facility environments to be inconvenient, these things are called nuisance. The nuisances are of different types. Once nuisance happen there must be an *Abatement* i.e. means to prevent them. Apart from nuisances around the facility surrounding there are different types of waste. For these wastes to be cleaned detergents must be used. Different types of equipment's must be used and different disposal methods are used according to the type of waste.

Figure 152.Environmental health



Environmental health works as follows.

Settings

This part is where all registration concerning environmental are done

Register nuisance

Navigation: DISEASES/OUTBREAK | VACCINATION | RECEIVING | TREATMENT/WASTE | NUISANCE | REPORTS | **SETTINGS**

Left sidebar: Nuisance Register | Equipment Type Register | Equipments List | Waste Type Register | Disposal Methods | Notifiable Diseases

Main content: **Nuisance Register**
 Register Nuisance Type
 Input: kupiga kelele [REGISTER]
 Table:

No#	Nuisance	Edit	X

Register equipment type: there are two main categories of equipment types which are *Bin Liners and Waste Bins*.

Navigation: DISEASES/OUTBREAK | VACCINATION | RECEIVING | TREATMENT/WASTE | NUISANCE | REPORTS | **SETTINGS**

Left sidebar: Nuisance Register | **Equipment Type Register** | Equipments List | Waste Type Register | Disposal Methods | Notifiable Diseases

Main content: **Equipment Type Register**
 Register Equipment and Tools
 Input: Bin liners [REGISTER]
 Table:

No#	Equipment Type	Edit	X

Equipment list: various equipment list fall to different equipment type.

Navigation: DISEASES/OUTBREAK | VACCINATION | RECEIVING | TREATMENT/WASTE | NUISANCE | REPORTS | **SETTINGS**

Left sidebar: Nuisance Register | Equipment Type Register | **Equipments List** | Waste Type Register | Disposal Methods | Notifiable Diseases

Main content: **Equipments List**
 Choose Equipment Type * [Bin liners] Register Equipment Name * [dust bin] Add Equipment
 Equipment/Tool Status * [Available]
 [REGISTER]
 Table:

No#	Equipment Name	Equipment Type	Status	Edit	X

Waste types: different types of wastes are registered here

Nuisance Register

Equipment Type Register

Equipments List

Waste Type Register

Disposal Methods

Notifiable Diseases

Waste Type Register

Register Waste Type

Liquid **REGISTER**

No#	Waste Type	Edit	X
-----	------------	------	---

Disposal method: register different methods of disposal

Nuisance Register

Equipment Type Register

Equipments List

Waste Type Register

Disposal Methods

Notifiable Diseases

Disposal Methods

Register Disposal Methods

burning **REGISTER**

No#	Disposal Method	Edit	X
-----	-----------------	------	---

Notifiable disease

Navigation: DISEASES/OUTBREAK | VACCINATION | RECEIVING | TREATMENT/WASTE | NUISANCE | REPORTS | **SETTINGS**

Left Sidebar: Nuisance Register | Equipment Type Register | Equipments List | Waste Type Register | Disposal Methods | **Notifiable Diseases**

Notifiable Diseases
Register a New Notifiable Diagnosis
TRACHOMA A71

No#	Disease	Remove
1	CHOLERA	REMOVE
2	TRACHOMA	REMOVE

SAVE

Disease /outbreak

This part contain summary reports of outbreak disease, patient list and outbreak summary

Figure 153.summary report

Navigation: **DISEASES/OUTBREAK** | VACCINATION | RECEIVING | TREATMENT/WASTE | NUISANCE | REPORTS | SETTINGS

Left Sidebar: **Summary Report** | Patients List | Outbreak Summary

Summary Report
Choose Start Date: 2017-01-01 13:14:00 | Choose End Date: 2017-10-28 13:14:00 | **SEARCH**

Jina la Kituo: TUMBI | Wilaya : KIBAHA | Mkoa : PWANI

DISEASE OUTBREAK SUMMARY

s/n	DISEASES	<5 YEARS				>5 YEARS				TOTAL	
		C		D		C		D		C	D
		M	F	M	F	M	F	M	F		
1	Acute Flacid Paralysis	0	0			1	0			1	
2	Cholera	0	0			1	0			1	
3	Malaria	0	0			1	0			1	

Figure 154. Patient list

DISEASES/OUTBREAK VACCINATION RECEIVING TREATMENT/WASTE NUISANCE REPORTS SETTINGS

Summary Report
Patients List
 Outbreak Summary

Patients List

Choose Start Date: 2017-06-01 13:15:00 Choose End Date: 2017-10-28 13:15:00 **SEARCH**

DISEASE OUTBREAK

No#	Disease	Patient	Gender	Notified By	Date
1	Acute Flacid Paralysis	MWINYI KIKOTI MWINJUMA (3456-00-00-01/2017)	MALE	doctor	2017-09-10 08:40:12
2	Rabies	MWINYI KIKOTI MWINJUMA (3456-00-00-01/2017)	MALE	doctor	2017-09-10 08:40:12
3	Plague	MWINYI KIKOTI MWINJUMA (3456-00-00-01/2017)	MALE	doctor	2017-09-10 08:40:12
4	Yellow fever	MWINYI KIKOTI MWINJUMA (3456-00-00-01/2017)	MALE	doctor	2017-09-09 18:04:46
5	Meningococcal infection	MWINYI KIKOTI MWINJUMA (3456-00-00-01/2017)	MALE	doctor	2017-09-09 18:04:46
6	Malaria	JACKLINE JUSTINE MKANDASALI (3456-00-00-06/2017)	MALE	doctor	2017-09-07 14:26:17

Figure 155. Outbreak summary

DISEASES/OUTBREAK VACCINATION RECEIVING TREATMENT/WASTE NUISANCE REPORTS SETTINGS

Summary Report
 Patients List
Outbreak Summary

Outbreak Summary

Choose Start Date: 2017-06-01 13:15:00 Choose End Date: 2017-10-26 13:15:00 **SEARCH**

DISEASE OUTBREAK SUMMARY

No#	Disease	Gender	Quantity
1	Acute Flacid Paralysis	MALE	1
2	Cholera	MALE	1
3	Malaria	MALE	1
4	Meningococcal infection	MALE	1
5	Plague	MALE	1
6	Rabies	MALE	1

Vaccination

Deals with proving vaccinations of Anti rabies to all patients bitten by dogs and making follow up to all patients bitten to get vaccination

Ant Rabies

Ant Rabies

Summary Report

Ant Rabies

NAME: MWINYI KIKOTI MWINJUMA (3456-00-00-01/2017) D.O.B: Gender: MALE

Search Patient *

Choose Vaccination Batch Number * Choose Injection Type * Choose Dose Type *

89 I/V First Dose

REGISTER

Summary report

Ant Rabies

Summary Report

Summary Report

Choose Start Date: 2017-04-01 13:17:00 Choose End Date: 2017-10-28 13:17:00 **SEARCH**

Jina la Kituo: TUMBI Wilaya: KIBAHA Mkoa: PWANI

ANTRABIES MONITORING FORM

filter data or search..

s/n	ARV BN	PERSON SUSPECTED	DOSE SCHEDULE	LAST DOSE (DATE)	ADDRESS	OFFICER & TITLE
1	89	SALOME JACKSON WILLIAM 3456-00-00-02/2017	1st	2017-09-16 09:38:11	0652576368	admin@tamisemi.go.tz

Receiving

Equipment receiving

Click receive item, select equipment type and enter quantity of equipment receive then register

Ant Rabies Receiving

Equipment Receiving

ITEM BALANCE

ITEM ISSUING

SUMMARY REPORT

Equipment Receiving

Receive Item

Choose Start Date: 2017-06-01 13:18:00 Choose End Date: 2017-10-31 13:18:00 **SEARCH**

No#	Equipment Name	Quantity	Date
1	dust bin	90	2017-08-19 13:53:30
2	dust bin	700	2017-09-08 14:27:50
3	liners	7	2017-08-19 13:53:39
4	zoleo	45	2017-08-21 19:44:29
5	koleo	67	2017-08-21 19:44:40
6	yellow	10	2017-09-08 14:39:53

Item balance

Display the quantity of available equipment

Item issuing

Click issue item, choose equipment type and enter the quantity of equipment's to be issued

Search and view equipment name and the quantity issued

Summary Report

View summary of received and issued equipment's

Treatment/Waste

It handles different ways of waste disposals like incinerations, burning etc

Waste collection and waste disposal are registered here

Waste Collection

Waste Dispose

Choose Waste Type * Enter Waste Amount Collect... Choose Equipment ...

REGISTER

Nuisance

It handles annoying issues like noises, sounds

Choose the type of nuisance, its cause, location, way to overcome it and the end date.

Choose Nuisance Type * Enter Nuisance Cause *

kupiga kelele cause

Enter Location * Enter Abatement

location abatment

Choose End Date

2017-10-12 23:52:00

REGISTER

Report

A report of waste collection, waste disposal and nuisance is shown here.

Waste collected report

Waste Collected

Waste Disposed

Nuisance Report

Waste Collected

Graphical View?

Choose Start Date Choose End Date SEARCH

No Data Found.....

WASTE COLLECTED SUMMARY

Nuisance report

Waste Collected

Waste Disposed

Nuisance Report

Nuisance Report

Graphical View?

Choose Start Date Choose End Date SEARCH

2017-06-01 13:23:00 2017-10-31 13:23:00

No Data Found.....

NUISANCE REPORT SUMMARY

#	Nuisance	Location	Cause	Abatement	Date
1	kelele	ccc	ccc	cc	2017-08-03 18:18:00
2	kukojoa hadharani	gatin	foleni	fain	2017-08-14 19:31:00
3	kuimbaimba ovyo	hhgh	nill	nill	2017-08-09 19:35:00
4	kucheka kwa nguvu	wodini	alibanwa kucheka	viboko	2017-08-23 15:58:00
5	maji machafu	nhhg	rffrt		2017-09-08 14:52:00
Total		5			

REPRODUCTIVE CHILD HEALTH (RCH)

Reproductive Child Health (RCH) is a module responsible for the health of a mother, father and child with the aim of reducing infant, child and maternal mortality rates. Reproductive health should be looked at through a lifecycle approach as it affects both men and women from infancy to old age

The module consist of five main parts which are: Anti natal, Post natal, labour and Family Planning.

In RCH the patient/client is registered if it is first time visit and on registration the details of both father and mother are recorded. The system enable a patient search for the re-attendance.

ANTI NATAL

Anti natal is the period of pregnancy which performed various check-up during pregnancy for the early detection of possible complications of pregnancy together with uterine and fatal abnormalities. Ant natal care includes general examination, abdominal examination, vaginal examination, regular tests to monitor the progress of the pregnancy, ultrasound scanning, checks of weight, blood checks, tests of Hormones and Enzymes to assess the efficiency of the Placenta, and frequent tests of the blood pressure and urine.



The system allows user to register mother and partner informations, to take previous pregnancy details and indicators, related vaccinations, investigations, attendance and recommendation. a patient can be transferred to other clinics

☰ 🏠 👤 🔔 🚪 LOG OUT

[REGISTRATION](#) [PREGNANCY](#) [VACCINATIONS](#) [INVESTIGATIONS](#) [ATTENDANCE](#) [RECOMMENDATIONS](#) [TRANSFER](#)

Search Client here

First Name *
 Middle Name *
 Last Name *
 Gender *

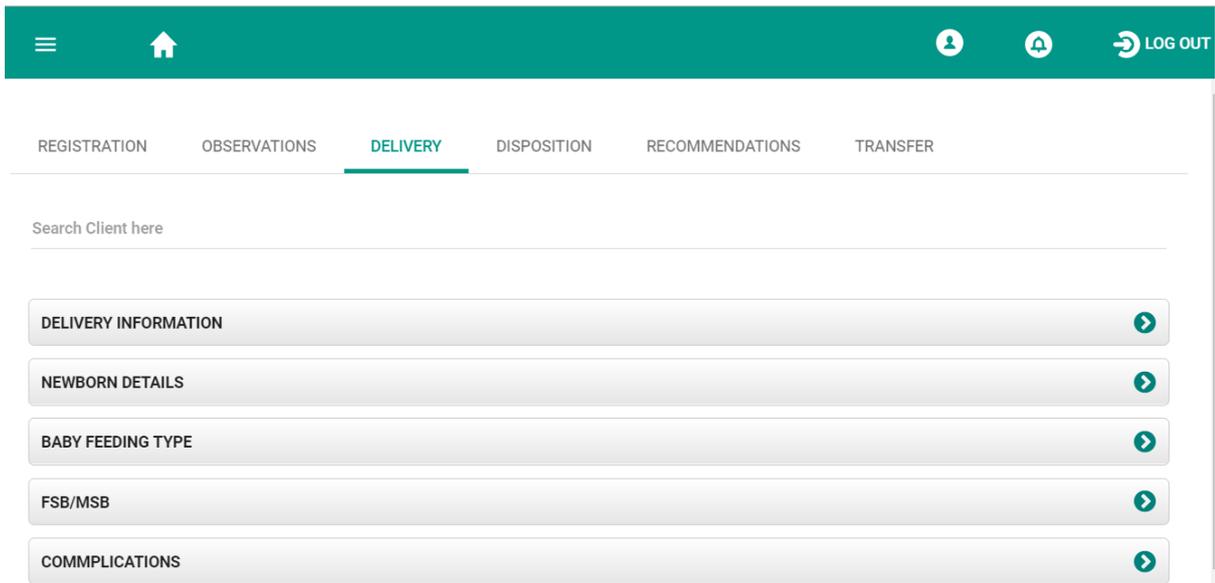
Date of birth
 Age
 Unit

LABOUR

Labour is the period during delivery, Post natal is the period begins from birth and ends when the baby is six weeks of age.



Labour patients are first registered, various observations are taken, and delivery information is recorded

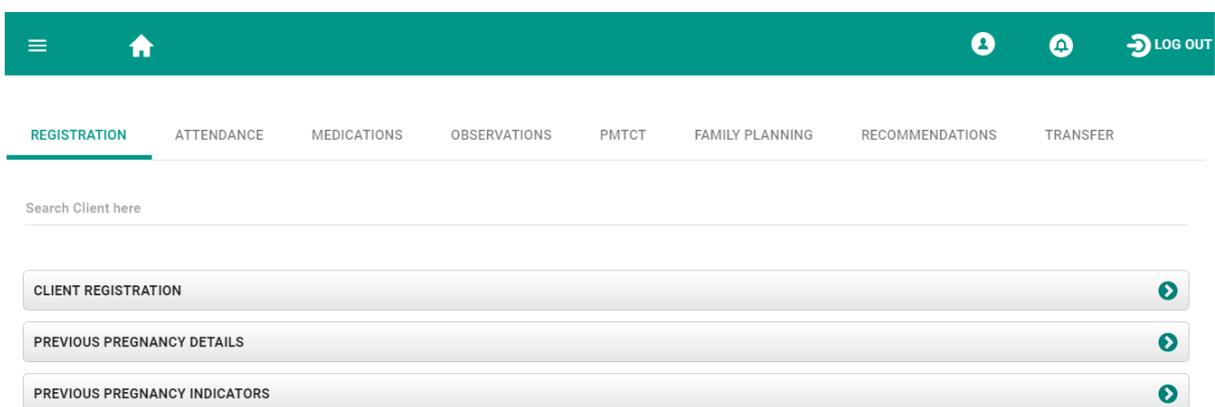


POST NATAL

The postnatal period is a very special time where women undergo the transition into motherhood period after delivery.



In post natal the patients is registered and patient attendance is recorded, various observations to mother and child are done

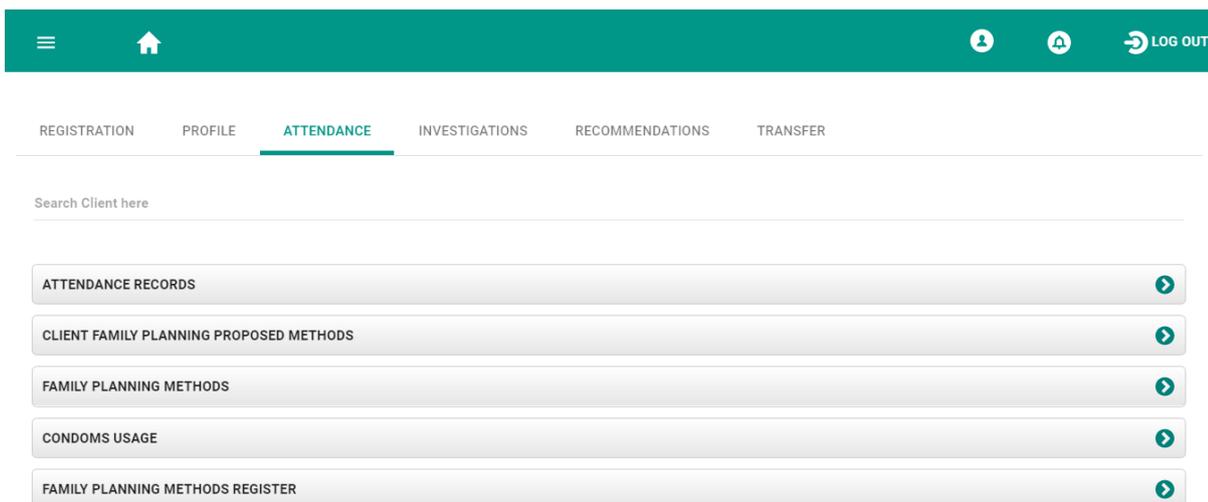


FAMILY PLANNING

Family planning is the practice of controlling the number of children in a family and the intervals between their births. It allows people to attain their desired number of children and determine the spacing of pregnancies. It is achieved through use of contraceptive methods and the treatment of infertility



Family planning includes registration of for new patients, the system has search panel which enable user to search for existing patients, and patient records are available in profile tab

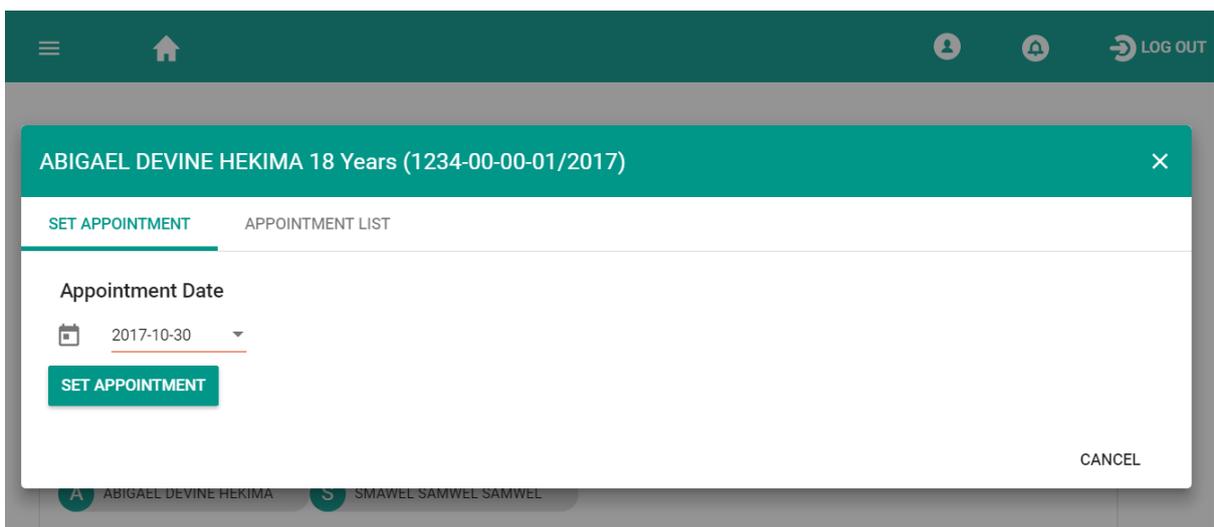
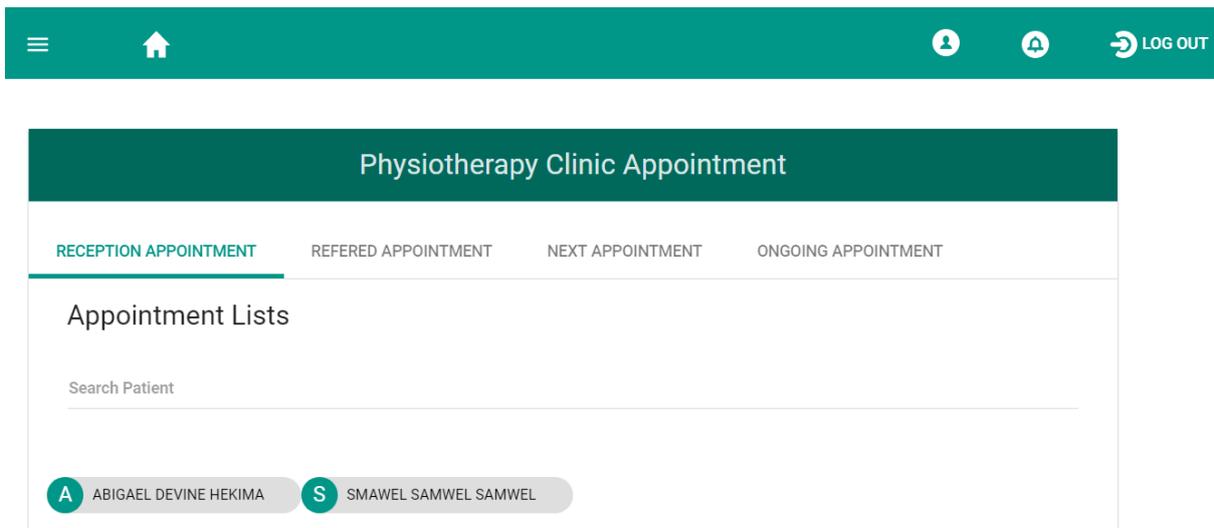


PHYSIOTHERAPY

Is a module responsible for treatment of the joints, muscles, or nerves, which involves doing exercises or having part of your body massaged or warmed. In physiotherapy the patient is registered then assigned to physiotherapy clinic. The patient is listed to Physio appointment where the appointment is set. The appointment can be referred (same date) or ongoing appointment



Physio appointment where a patient is give an appointment, the appointment can be of the same date or ongoing appointment



Appointment Notes

write appointment note here

Next-appointment Date

2017-10-17

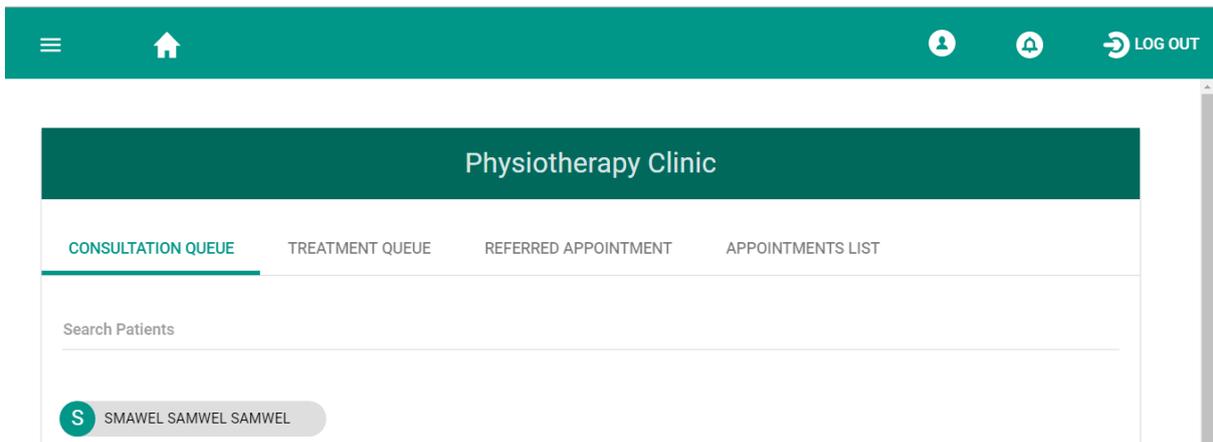
27 / 500

SAVE NOTES

CANCEL

PHYSIOTHERAPY CLINIC

Once the appointment is set, patients with referred appointment will be seen be listed at the physiotherapy clinic dashboard



Records

First the doctor looks at the patient's previous visits history. For the new patients, the previous visits history will be seen once the patient is clerked by the doctor.

If it is a new patient, there won't be previous visit history until the patient is clerked is when the patient history will be available

SMAWEL SAMWEL SAMWEL MRN: 1234-00-00-02/2017 DoB: 1956-01-01 Gender: MALE Age: 61

RECORDS SUBJECTIVE ASSESSMENT OBJECTIVE ASSESSMENT INVESTIGATION INVESTIGATION RESULTS TREATMENTS BLOOD REQUEST

2017-10-11 09:37:19
2017-10-10 10:35:28
2017-10-08 17:08:16

SMAWEL SAMWEL SAMWEL MRN: 1234-00-00-02/2017 DoB: 1956-01-01 Gender: MALE Age: 61

Diagnosis

Confirmed	CELLULITIS OF TRUNK
Differential	ERYTHRASMA
Provisional	ERYTHRASMA

Subjective and objective assessment

This is where doctor discuss with the patient about the illness. After discussing the doctor will be able to search the complaints and duration of the occurrence of that complaints according to what the patient said apart from searching the complaints, the system enable doctor to write the complaints in details from what was heard from the patient. This part enables a doctor to doctor view all vitals that were taken concerning a particular patient.

Figure 156. Subjective assessment

SMAWEL SAMWEL SAMWEL MRN: 1234-00-00-02/2017 DoB: 1956-01-01 Gender: MALE Age: 61

RECORDS SUBJECTIVE ASSESSMENT OBJECTIVE ASSESSMENT INVESTIGATION INVESTIGATION RESULTS TREATMENTS BLOOD REQUEST

Chief Complaints

Provisional Diagnosis
History of presenting illness
Past medical history
Family and Social Information
Relevant Note and Records

Chief Complaints

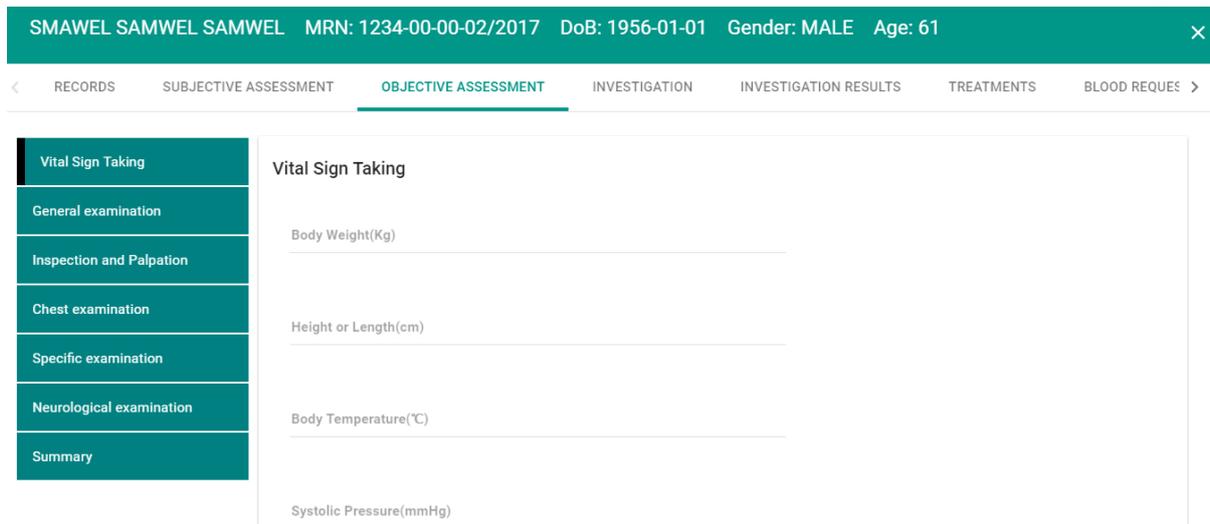
Search Chief Complaints Duration Duration Unit **ADD**

Other complaints if measurable give units e.g pain by VAS

0 / 500

SAVE

Figure 157. Objective assessment



SMAWEL SAMWEL SAMWEL MRN: 1234-00-00-02/2017 DoB: 1956-01-01 Gender: MALE Age: 61

RECORDS SUBJECTIVE ASSESSMENT **OBJECTIVE ASSESSMENT** INVESTIGATION INVESTIGATION RESULTS TREATMENTS BLOOD REQUEST

Vital Sign Taking

General examination

Inspection and Palpation

Chest examination

Specific examination

Neurological examination

Summary

Vital Sign Taking

Body Weight(Kg)

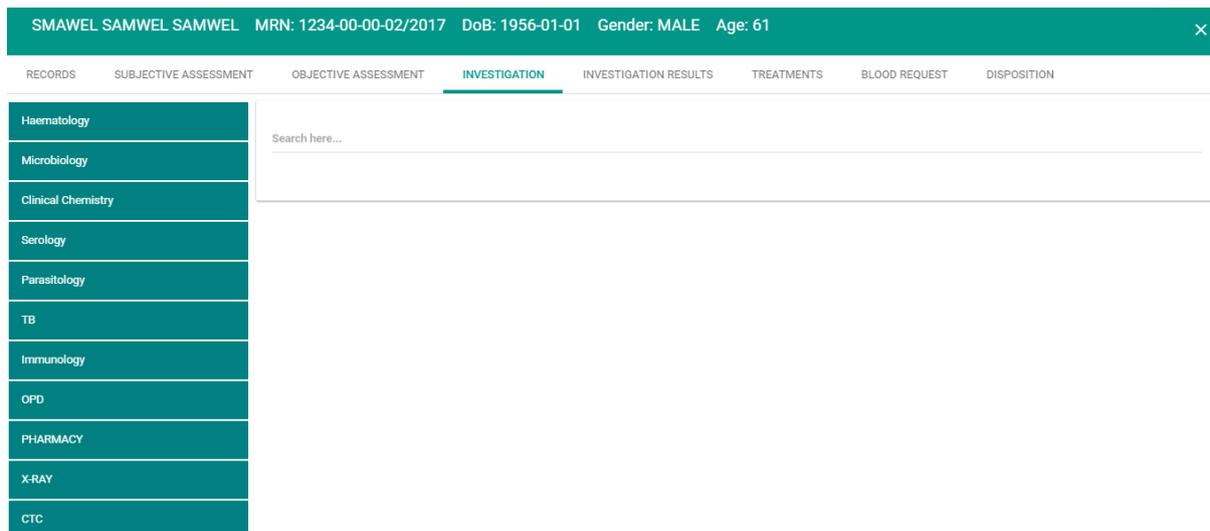
Height or Length(cm)

Body Temperature(°C)

Systolic Pressure(mmHg)

Investigation

After clerking a patient, this part enables a doctor to write the possible diagnosis, the possible diagnosis written here will be confirmed by the doctor once the investigation are complete and investigation results are sent to the doctor.



SMAWEL SAMWEL SAMWEL MRN: 1234-00-00-02/2017 DoB: 1956-01-01 Gender: MALE Age: 61

RECORDS SUBJECTIVE ASSESSMENT OBJECTIVE ASSESSMENT **INVESTIGATION** INVESTIGATION RESULTS TREATMENTS BLOOD REQUEST DISPOSITION

Haematology

Microbiology

Clinical Chemistry

Serology

Parasitology

TB

Immunology

OPD

PHARMACY

X-RAY

CTC

Search here...

Investigation

This part enables a doctor to choose what a patient is to be investigated. After choosing the investigation the patient will make payments and go for investigation.

SMAWEL SAMWEL SAMWEL MRN: 1234-00-00-02/2017 DoB: 1956-01-01 Gender: MALE Age: 61

RECORDS SUBJECTIVE ASSESSMENT OBJECTIVE ASSESSMENT **INVESTIGATION** INVESTIGATION RESULTS TREATMENTS BLOOD REQUEST DISPOSITION

Haematology
Microbiology
Clinical Chemistry
Serology
Parasitology
TB
Immunology
OPD
PHARMACY
X-RAY
CTC

Search here...

X-RAY ABDOMEN - 1000 Tshs x-ray head - 20000 Tshs

Investigation results

Results of what had been investigated from the Laboratory/Radiology is returned to the doctor, the doctor views the investigation results, the results will assist doctor to confirm diagnosis and make treatment.

SMAWEL SAMWEL SAMWEL MRN: 1234-00-00-02/2017 DoB: 1956-01-01 Gender: MALE Age: 61

RECORDS SUBJECTIVE ASSESSMENT OBJECTIVE ASSESSMENT INVESTIGATION **INVESTIGATION RESULTS** TREATMENTS BLOOD REQUEST DISPOSITION

LAB RESULTS

IMAGING RESULTS

Confirmed Diagnosis

Type ICD code or diagnosis to Search

SAVE

Treatment

This part enable a doctor to gives medication, medical supplies or procedures to a patient. Doctor will be able to see all prescribed medications, previous procedures and rejected prescription.

SMAWEL SAMWEL SAMWEL MRN: 1234-00-00-02/2017 DoB: 1956-01-01 Gender: MALE Age: 61

RECORDS SUBJECTIVE ASSESSMENT OBJECTIVE ASSESSMENT INVESTIGATION INVESTIGATION RESULTS **TREATMENTS** BLOOD REQUEST DISPOSITION

Medication
Medical supplies
Procedures
Prescribed medications
Previous procedures
Rejected prescriptions
Working Diagnosis
Aim of Treatment
Plans of Treatment
Evaluation of Treatment

Medication

Search Drug by Name Dose Frequency Duration

Additional Instructions here ADD TO LIST

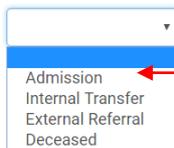
SAVE

It is where the patient need for blood is requested and the request goes to the blood bank.



Disposition

On disposition a patient can be admitted to the ward, transferred to other clinic, referred to external hospital or deceased to mortuary.



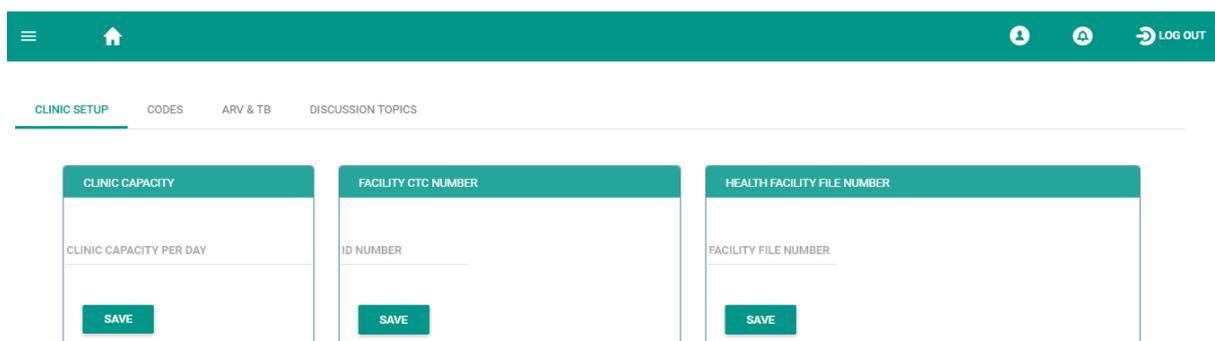
Click admission to admit patient to the ward

CARE AND TREATMENT CLINIC (CTC)

Care and Treatment Clinic (CTC) is a clinic which deals with HIV/AIDS infected people. It explains on how the HIV patient is monitored from medical supply to consultation. CTC covers all areas of medicine, consultation and all other related treatments including counselling and voluntary testing, also education oh how to care for People living with HIV/AIDS (PLWHA) .the clinics contains:

Setup, Codes, ARV and TB, Discussion Topics

On clinic setup tab, clinical capacity per day is where you write the total number of patients who can be treated on that day, ID number is where the registration number of a facility is registered.



Click on *Codes* then enter codes and codes descriptions

The screenshot shows the 'Codes' tab selected in the navigation menu. The left sidebar contains a list of categories: Visit Type, Signs, Symptoms and OI's, Functional Status, Family Planning, Nutritional Status, Nutritional Supplement, Referred to, and Follow up Status. The main content area is titled 'Visit Type' and contains a form with two input fields: 'Visit Type Code' and 'Visit Type'. A green 'SAVE' button is positioned to the right of the 'Visit Type' field.

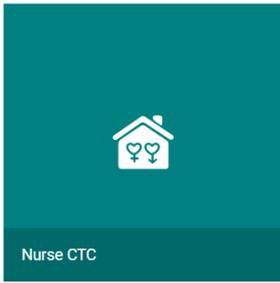
ARV & TB

On each item in this tab the registration is performed by entering codes and descriptions of code

The screenshot shows the 'ARV & TB' tab selected in the navigation menu. The left sidebar contains a list of categories: TB Screening/Diagnosis, ARV Reason, ARV Combination Regimens, TB treatment, ARV status, ARV adherence, and OI Treatment/Prophylaxis. The main content area is titled 'TB Screening/Diagnosis' and contains a form with two input fields: 'TB Screening Diagnosis ...' and 'TB Screening Diagnosis ...'. A green 'SAVE' button is positioned to the right of the second field.

Discussion topic tab enables the user to register and to be able to view the discussion topic

The screenshot shows the 'Discussion Topics' tab selected in the navigation menu. The left sidebar contains two categories: Register Topic and View Topic. The main content area is titled 'Register Topic' and contains a form with a 'TOPIC NAME' label and an input field containing the text 'topic'. A green 'SAVE' button is positioned to the right of the input field.



CTC nurse/doctor panel

Consultation queue contains a list of patients who have satisfied to be consulted by the doctor which involves patients who have made payments and exempted patients all of which are waiting to be consulted by the doctor concerned it also contains a quick search tab that will enable the doctor to search a patient by patient’s full name and his/her medical record number.

Doctor picks the clients/patients from consultation queue in order to attend them as follows:



Search Patients

ABIGAEEL HEKIMA

Previous visit

First the doctor looks at the patient’s previous visits history. For the new patients, the previous visits history will be seen once the patient is clerked by the doctor.

If it is a new patient, there won’t be previous visit history until the patient is clerked is when the patient history will be available

A screenshot of a patient history interface. At the top, a dark teal bar displays patient information: "ABIGAEEL DEVINE HEKIMA MRN: 1234-00-00-01/2017 DoB: 1999-07-01 Gender: MALE Age: 18 Years" with a close icon on the right. Below this is a horizontal menu with tabs: "PREVIOUS VISITS", "VITAL SIGNS", "CLINIC", "CLERK SHEET", "DIAGNOSIS", "INVESTIGATION", "INVESTIGATION RESULTS", and "T >". The "PREVIOUS VISITS" tab is selected. The main content area shows a list of visits on the left and a detailed view on the right. The list includes dates and times: "2017-10-11 09:40:05", "2017-10-11 10:29:03", "2017-10-11 15:43:07", and "2017-10-08 14:23:19". The detailed view for the first visit shows the patient's name and MRN, and a greyed-out section labeled "Complaints".

Vital sign

This part enables a doctor to view all vitals that were taken concerning a particular patient.

Clinic

This is where doctor discuss with the patient about the illness. After discussing the doctor will be able to search the visit type and record all the patient status. After checking the patient status the doctor will be able to decide whether the patient needs to be transferred to other clinics.

The screenshot shows a patient record for ABIGAE DEVINE HEKIMA (MRN: 1234-00-00-01/2017, DoB: 1999-07-01, Gender: MALE, Age: 18 Years). The 'CLINIC' tab is active, showing a 'Visit Type' dropdown menu and a 'SAVE' button. Below this is a table with columns: VISIT DATE, VISIT TYPE CODE, SIGNS AND SYMPTOMS, and NAME OF CLINICIAN.

Diagnosis

After clerking a patient, this part enables a doctor to write the possible diagnosis, the possible diagnosis written here will be confirmed by the doctor once the investigation are complete and investigation results are sent to the doctor.

The screenshot shows a patient record for SMAWEL SAMWEL SAMWEL (MRN: 1234-00-00-02/2017, DoB: 1956-01-01, Gender: MALE, Age: 61 Years). The 'DIAGNOSIS' tab is active, showing a 'Provisional diagnosis' of PLASMODIUM FALCIPARUM MALARIA, UNSPECIFIED B50.9 and a 'Differential diagnosis' of TYPHOID FEVER A01.0. A 'SAVE' button is highlighted with a red arrow and the text 'Save the diagnosis'.

Investigation

This part enables a doctor to choose what a patient is to be investigated. After choosing the investigation the patient will make payments and go for investigation.

JUMA DOSA HAJI MRN: 1053164-00-00-01/2016 DoB: 1996-07-01 Gender: MALE Age: 21 Years

PREVIOUS VISITS VITAL SIGNS CLERK SHEET DIAGNOSIS **INVESTIGATION** INVESTIGATION RESULTS TREATMENTS BLOOD REQUEST DISPOSITION

Haematology

Microbiology

Clinical Chemistry

Serology

Parasitology

X-RAY

ULTRASOUND

ECHO

ECG

Search here...

<input type="checkbox"/> HAEMOGLOBIN(HB) - 4000 Tshs	<input type="checkbox"/> SCKLING TESTING(HB) - 3000 Tshs	<input type="checkbox"/> ESR(HB) - 3000 Tshs
<input type="checkbox"/> FBP - 10000 Tshs	<input checked="" type="checkbox"/> Panel one - 10000 Tshs	
<input type="checkbox"/> HAEMOGLOBIN(HB) - 4000 Tshs	<input type="checkbox"/> SCKLING TESTING(HB) - 3000 Tshs	<input type="checkbox"/> ESR(HB) - 3000 Tshs
<input type="checkbox"/> FBP - 10000 Tshs	<input type="checkbox"/> Panel one - 10000 Tshs	

Write clinical summary here... clinical summary **Write clinical summary** Urgent **SAVE**

Panel one - 10000 Tshs **Choose status**

Investigation results

Results of what had been investigated from the Laboratory/Radiology is returned to the doctor, the doctor views the investigation results, the results will assist doctor to confirm diagnosis and make treatment.

ABIGAE DEVINE HEKIMA MRN: 1234-00-00-01/2017 DoB: 1999-07-01 Gender: MALE Age: 18 Years

< VISITS VITAL SIGNS CLINIC CLERK SHEET DIAGNOSIS **INVESTIGATION RESULTS** TREATMENTS DISPOSITION >

LAB RESULTS >

IMAGING RESULTS >

Confirmed Diagnosis

Type ICD code or diagnosis to Search

SAVE

Treatment

This part enable a doctor to gives medication, medical supplies or procedures to a patient. Doctor will be able to see all prescribed medications, previous procedures and rejected prescription.

JUMA DOSA HAJI MRN: 1053164-00-00-01/2016 DoB: 1996-07-01 Gender: MALE Age: 21 Years

PREVIOUS VISITS VITAL SIGNS CLERK SHEET DIAGNOSIS INVESTIGATION INVESTIGATION RESULTS **TREATMENTS** BLOOD REQUEST DISPOSITION

Medication

Medical supplies

Procedures

Prescribed medications

Previous procedures

Rejected prescriptions

Medication

Search Drug by Name

DIAZEPAM TAB 5MG, TABLET Dose: 5MG Once a Day Three Days

Additional Instructions here **ADD TO LIST**

SAVE

Disposition

On disposition a patient can be admitted to the ward, transferred to other clinic, referred to external hospital or deceased to mortuary.

JUMA DOSA HAJI MRN: 1053164-00-00-01/2016 DoB: 1996-07-01 Gender: MALE Age: 21 Years

< CLERK SHEET DIAGNOSIS INVESTIGATION INVESTIGATION RESULTS TREATMENTS BLOOD REQUEST **DISPOSITION**

Admission
Internal Transfer
External Referral
Deceased

Click admission to admit patient to the ward

DENTAL

Dental is a module that involves the maintenance of healthy teeth and may refer to as Oral hygiene, the practice of keeping the mouth and teeth clean in order to prevent **dental** disorders. **Dentistry**, the professional **care** of teeth, including professional oral hygiene and **dental surgery**.

≡ 🏠 👤 🔔 ↻ LOG OUT

Dental Clinic

Consultation queue contains a list of patients who have satisfied to be consulted by the doctor which involves patients who have made payments and exempted patients all of which are waiting to be consulted by the doctor concerned it also contains a quick search tab that will enable the doctor to search a patient by patient's full name and his/her medical record number. Doctor picks the clients/patients from consultation queue in order to attend them as follows:

≡ 🏠 👤 🔔 LOG OUT

Search Patients

ABIGAE DEVINE HEKIMA SMAWEL SAMWEL SAMWEL DEMO DEMO DEMO

My performance

Previous visit

First the doctor looks at the patient’s previous visits history. For the new patients, the previous visits history will be seen once the patient is clerked by the doctor.

If it is a new patient, there won’t be previous visit history until the patient is clerked is when the patient history will be available

ABIGAEL DEVINE HEKIMA MRN: 1234-00-00-01/2017 DoB: 1999-07-01 Gender: MALE Age: 18 Years

2017-10-11 09:40:05

2017-10-11 10:29:03

2017-10-11 15:43:07

2017-10-11 17:29:36

2017-10-11 17:54:45

Vital sign

This part enables a doctor to view all vitals that were taken concerning a particular patient.

Clerk sheet

This is where doctor discuss with the patient about the illness. After discussing the doctor will be able to search the complaints and duration of the occurrence of that complaints according to what the patient said apart from searching the complaints, the system enable doctor to write the complaints in details from what was heard from the patient.

ABIGAEL DEVINE HEKIMA MRN: 1234-00-00-01/2017 DoB: 1999-07-01 Gender: MALE Age: 18 Years

PREVIOUS VISITS VITAL SIGNS **CLERK SHEET** DIAGNOSIS INVESTIGATION INVESTIGATION RESULTS TREATMENTS DISPOSITION

Complaints

History of presenting illness

Review of other systems

Past medical and surgical history

Past dental history

General examination

Local examination

Systemic examination

Complaints

Search Chief Complaints Duration Duration Unit ADD

Other complaints SAVE

0 / 500

Diagnosis

After clerking a patient, this part enables a doctor to write the possible diagnosis, the possible diagnosis written here will be confirmed by the doctor once the investigation are complete and investigation results are sent to the doctor.

SMAWEL SAMWEL SAMWEL MRN: 1234-00-00-02/2017 DoB: 1956-01-01 Gender: MALE Age: 61 Years

PREVIOUS VISITS VITAL SIGNS CLERK SHEET **DIAGNOSIS** INVESTIGATION INVESTIGATION RESULTS TREATMENTS BLOOD REQUEST

Provisional diagnosis: PLASMODIUM FALCIPARUM MALARIA, UNSPECIFIED B50.9
 Differential diagnosis: TYPHOID FEVER A01.0
 PLASMODIUM FALCIPARUM MALARIA, UNSPECIFIED-->Provisional
 TYPHOID FEVER-->Differential

Save the diagnosis **SAVE**

Investigation

This part enables a doctor to choose what a patient is to be investigated. After choosing the investigation the patient will make payments and go for investigation.

JUMA DOSA HAJI MRN: 1053164-00-00-01/2016 DoB: 1996-07-01 Gender: MALE Age: 21 Years

PREVIOUS VISITS VITAL SIGNS CLERK SHEET **DIAGNOSIS** **INVESTIGATION** INVESTIGATION RESULTS TREATMENTS BLOOD REQUEST DISPOSITION

Haematology
 Microbiology
 Clinical Chemistry
 Serology
 Parasitology
 X-RAY
 ULTRASOUND
 ECHO
 ECG

Search here...

HAEMOGLOBIN(HB) - 4000 Tshs SCKLING TESTING(HB) - 3000 Tshs ESR(HB) - 3000 Tshs

FBP - 10000 Tshs Panel one - 10000 Tshs

HAEMOGLOBIN(HB) - 4000 Tshs SCKLING TESTING(HB) - 3000 Tshs ESR(HB) - 3000 Tshs

FBP - 10000 Tshs Panel one - 10000 Tshs

Selected orders Panel one - 10000 Tshs

Write clinical summary here... clinical summary **Write clinical summary** Urgent **SAVE**
 Choose status

Investigation results

Results of what had been investigated from the Laboratory/Radiology is returned to the doctor, the doctor views the investigation results, the results will assist doctor to confirm diagnosis and make treatment.

JUMA DOSA HAJI MRN: 1053164-00-00-01/2016 DoB: 1996-07-01 Gender: MALE Age: 21 Years

PREVIOUS VISITS VITAL SIGNS CLERK SHEET **DIAGNOSIS** **INVESTIGATION** **INVESTIGATION RESULTS** TREATMENTS BLOOD REQUEST DISPOSITION

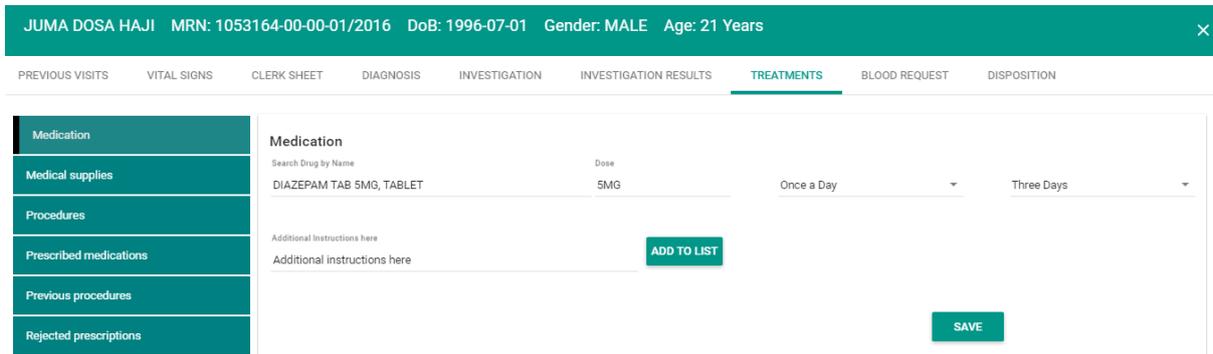
LAB RESULTS

Investigation	Description	Attachment	Remarks	Verifier	Date
2017-10-02	HAEMOGLOBIN(HB)	remarks	ATTACHMENT	Super Admin	

Confirmed Diagnosis
 Type ICD code or diagnosis to Search
 confirm diagnosis **SAVE**

Treatment

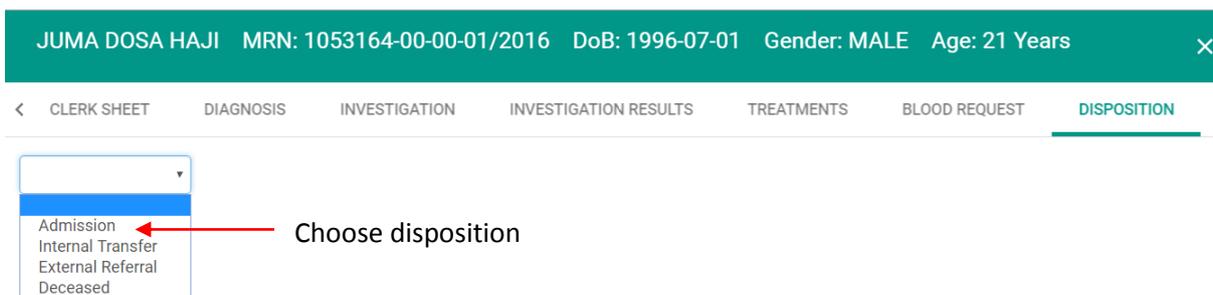
This part enable a doctor to gives medication, medical supplies or procedures to a patient. Doctor will be able to see all prescribed medications, previous procedures and rejected prescription.



Disposition

On disposition a patient can be admitted to the ward, transferred to other clinic, referred to external hospital or deceased to mortuary.

Figure 158.Disposition

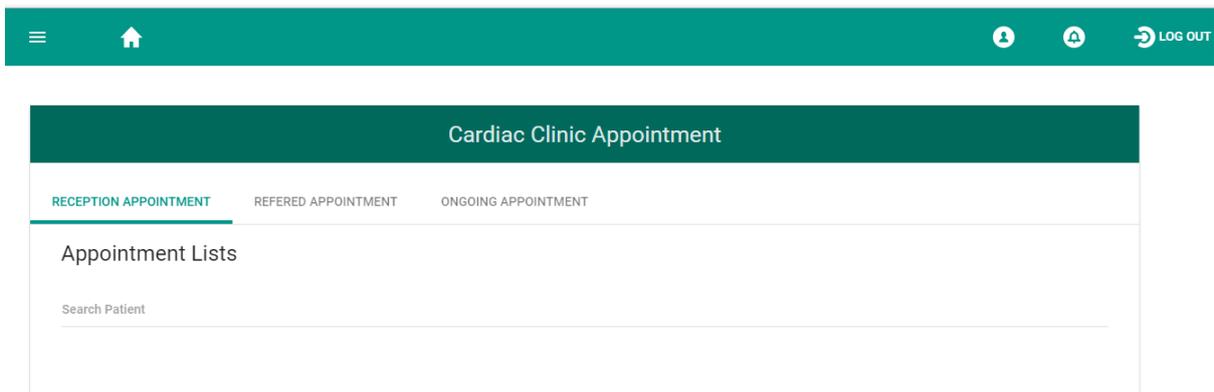


PAEDIATRIC

Is a module which deals with management of children from one month to five years it includes dealing with inborn defects acquired, diseases and environmental disabilities including



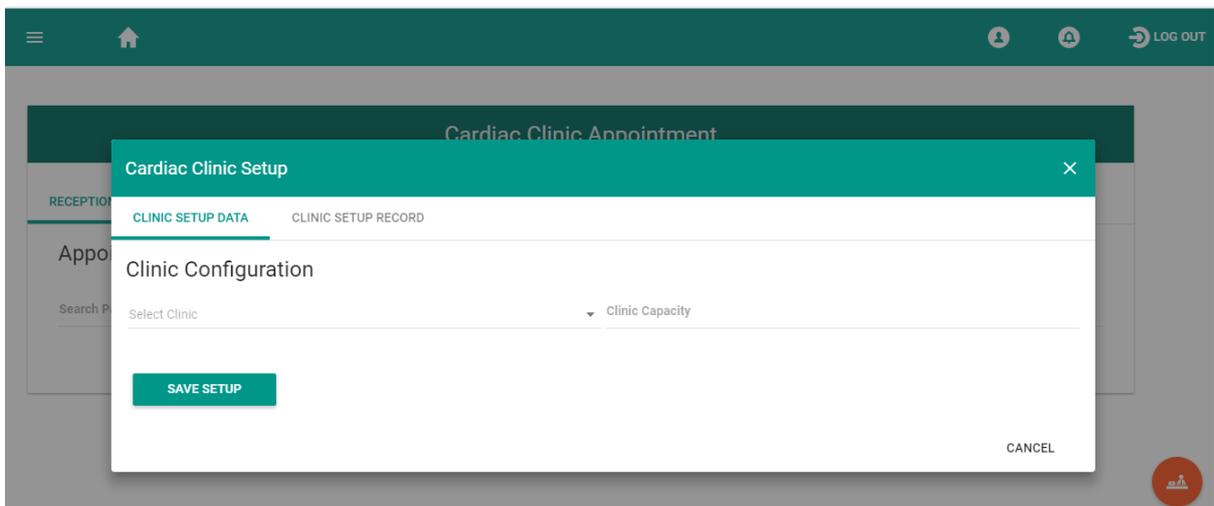
Open Cardiac appointment the click on the floating button to open clinic setup



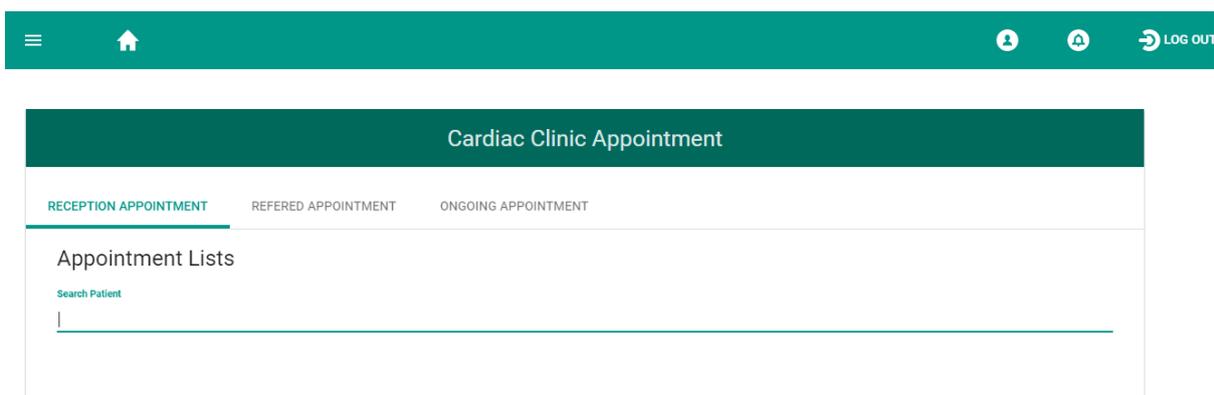
Open to set up the clinic



Set the clinic and enter the capacity of the clinic in patient handling



On the cardiac clinic appointment dash board is where the patients will be listed. It is where the referred appointment and ongoing appointment are set

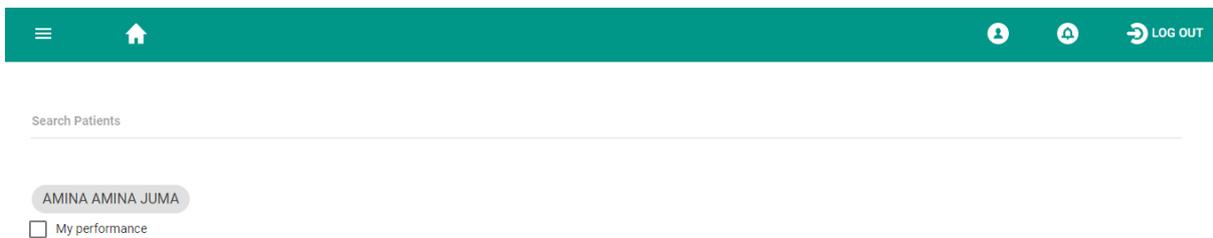


OBSETRICS & GYNACOLOGICAL

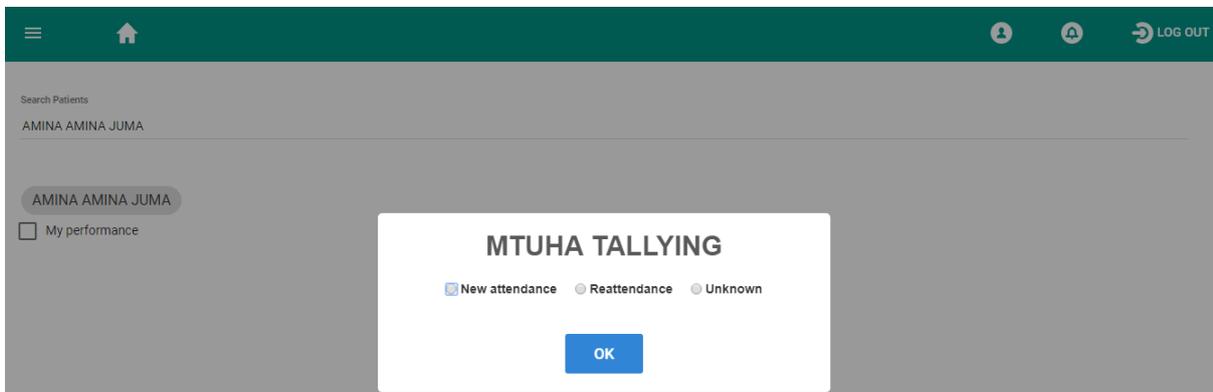
This module deals with treating and managing female concerned with pregnancy and operations involving babies



Search patient from search box for consultation



Attend MTUHA tallying



Previous visit

First the doctor looks at the patient's previous visits history. For the new patients, the previous visits history will be seen once the patient is clerked by the doctor.

If it is a new patient, there won't be previous visit history until the patient is clerked is when the patient history will be available

AMINA AMINA JUMA MRN: 1234-00-00-04/2017 DoB: 1988-07-01 Gender: FEMALE Age: 29 Years

PREVIOUS VISITS VITAL SIGNS CLERK SHEET DIAGNOSIS INVESTIGATION INVESTIGATION RESULTS TREATMENTS DISPOSITION

2017-10-12 01:18:51

AMINA AMINA JUMA MRN: 1234-00-00-04/2017 DoB: 1988-07-01 Gender: FEMALE Age: 29 Years

Vital sign

This part enables a doctor to view all vitals that were taken concerning a particular patient.

Clerk sheet

This is where doctor discuss with the patient about the illness. After discussing the doctor will be able to search the complaints and duration of the occurrence of that complaints according to what the patient said apart from searching the complaints, the system enable doctor to write the complaints in details from what was heard from the patient.

AMINA AMINA JUMA MRN: 1234-00-00-04/2017 DoB: 1988-07-01 Gender: FEMALE Age: 29 Years

PREVIOUS VISITS VITAL SIGNS CLERK SHEET DIAGNOSIS INVESTIGATION INVESTIGATION RESULTS TREATMENTS DISPOSITION

Complaints

History of presenting illness

Review of other systems

Gynaecological history

Obstetric history

General examination

Local examination

Systemic examination

Gynaecological history

Menarche	Cycles	Period	Menopause
	0 / 500	0 / 500	0 / 500

Gravidity	Parity	Number of abortions	Number of living children
	0 / 500	0 / 500	0 / 500

LNMP	STDs	Contraceptives	Menstrual cycle/flow
	0 / 500	0 / 500	0 / 500

SAVE

Diagnosis

After clerking a patient, this part enables a doctor to write the possible diagnosis, the possible diagnosis written here will be confirmed by the doctor once the investigation are complete and investigation results are sent to the doctor.

AMINA AMINA JUMA MRN: 1234-00-00-04/2017 DoB: 1988-07-01 Gender: FEMALE Age: 29 Years

PREVIOUS VISITS VITAL SIGNS CLERK SHEET DIAGNOSIS INVESTIGATION INVESTIGATION RESULTS TREATMENTS DISPOSITION

Provisional diagnosis

ERYTHRASMA L08.1

Differential diagnosis

PEMPHIGUS VEGETANS L10.1

ERYTHRASMA-->Provisional

PEMPHIGUS VEGETANS-->Differential

SAVE

Investigation

This part enables a doctor to choose what a patient is to be investigated. After choosing the investigation the patient will make payments and go for investigation.

The screenshot shows the 'Investigation' tab for patient AMINA AMINA JUMA. The patient's details (MRN: 1234-00-00-04/2017, DoB: 1988-07-01, Gender: FEMALE, Age: 29 Years) are displayed at the top. The navigation menu includes PREVIOUS VISITS, VITAL SIGNS, CLERK SHEET, DIAGNOSIS, INVESTIGATION (selected), INVESTIGATION RESULTS, TREATMENTS, and DISPOSITION. On the left, a vertical list of investigation categories is shown: Haematology, Microbiology, Clinical Chemistry, Serology, Parasitology, TB, Immunology, and X-RAY. The main area contains a search bar with the placeholder text 'Search here...'.

Investigation results

Results of what had been investigated from the Laboratory/Radiology is returned to the doctor, the doctor views the investigation results, the results will assist doctor to confirm diagnosis and make treatment.

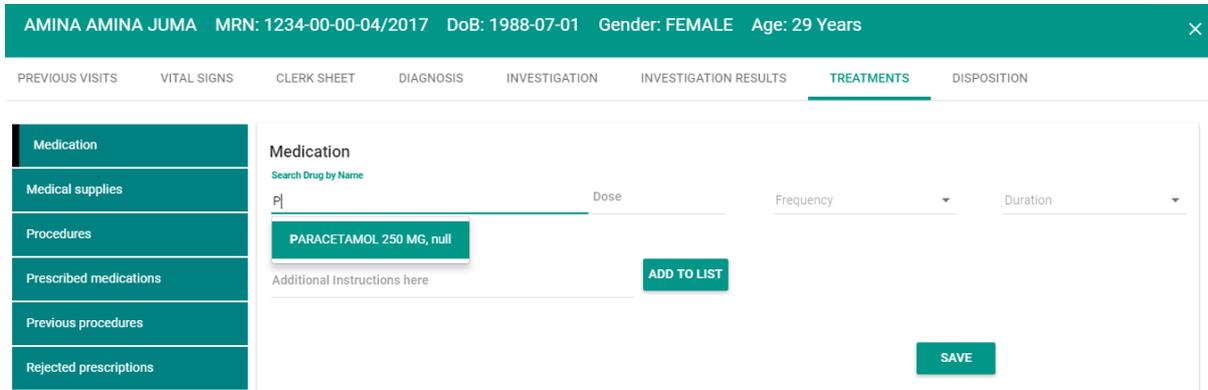
The screenshot shows the 'Investigation Results' tab for patient AMINA AMINA JUMA. The patient's details are at the top. The navigation menu includes PREVIOUS VISITS, VITAL SIGNS, CLERK SHEET, DIAGNOSIS, INVESTIGATION, INVESTIGATION RESULTS (selected), TREATMENTS, and DISPOSITION. On the left, there are two buttons: 'LAB RESULTS' and 'IMAGING RESULTS', both with right-pointing arrows. The main area is titled 'Confirmed Diagnosis' and contains a search bar with the placeholder text 'Type ICD code or diagnosis to Search'. Below the search bar, two diagnosis items are listed: 'ERYTHRASMA' and 'PEMPHIGUS VEGETANS', each with a minus sign to its right. A 'SAVE' button is located at the bottom right of the 'Confirmed Diagnosis' section.

Treatment

This part enable a doctor to gives medication, medical supplies or procedures to a patient. Doctor will be able to see all prescribed medications, previous procedures and rejected prescription.

Treatment

This part enable a doctor to gives medication, medical supplies or procedures to a patient. Doctor will be able to see all prescribed medications, previous procedures and rejected prescription.



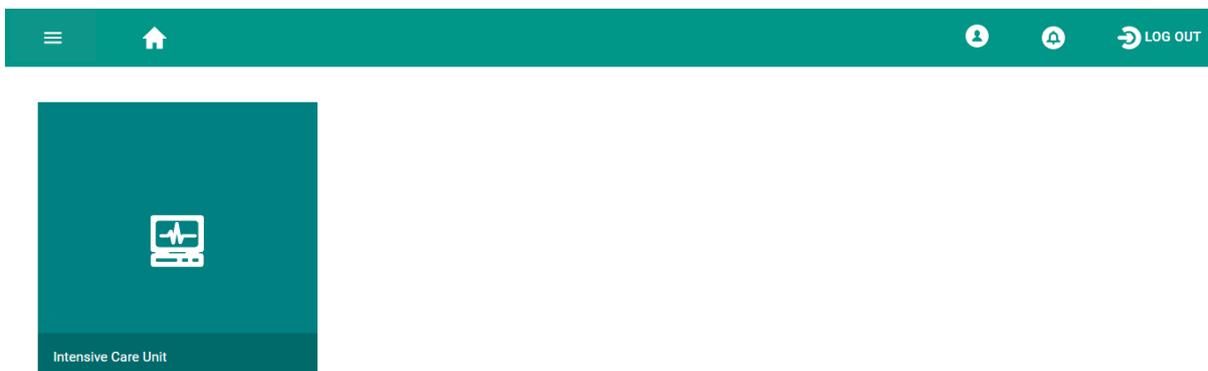
Disposition

On disposition a patient can be admitted to the ward, transferred to other clinic, referred to external hospital or deceased to mortuary.



INTENSIVE CARE UNIT (ICU)

ICU is a module which deals with seriously affected patients including unconsciousness, bleeding, failure to breathe and strokes.



Consultation queue contains a list of patients who have satisfied to be consulted by the doctor which involves patients who have made payments and exempted patients all of which are waiting to be consulted by the doctor concerned it also contains a quick search tab that will enable the doctor to search a patient by patient's full name and his/her medical record number.



Search Patients

AMINA AMINA JUMA

Vital sign

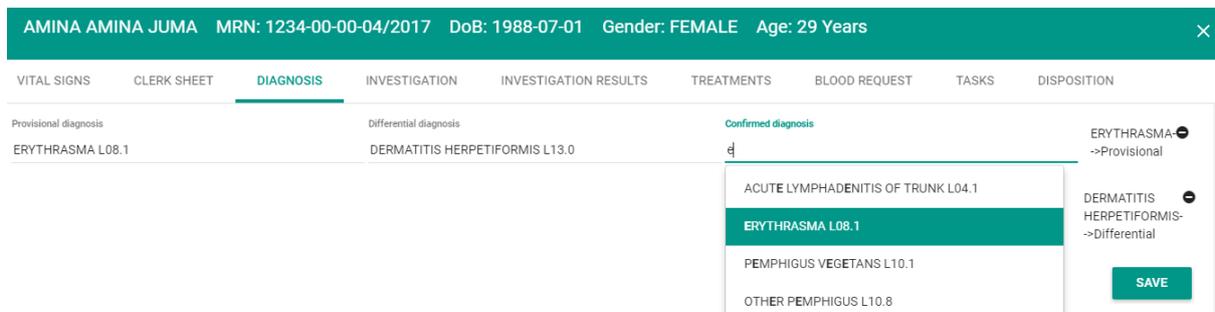
This part enables a doctor to view all vitals that were taken concerning a particular patient.

Clerk sheet

This is where doctor discuss with the patient about the illness. After discussing the doctor will be able to search the complaints and duration of the occurrence of that complaints according to what

Diagnosis

After clerking a patient, this part enables a doctor to write the provisional, differential and confirmed diagnosis



Tasks

Under this tab the system allows user to show the patient continuation notes and to assign bed to a patient

AMINA AMINA JUMA MRN: 1234-00-00-04/2017 DoB: 1988-07-01 Gender: FEMALE Age: 29 Years

VITAL SIGNS CLERK SHEET DIAGNOSIS INVESTIGATION INVESTIGATION RESULTS TREATMENTS BLOOD REQUEST **TASKS** DISPOSITION

Continuation notes

Continuation notes

Show more... Show less...

Write continuation notes here...

0 / 500

SAVE

MORTUARY

This is the last stage of survival where the senescence stops there/ a person dies because of accident / any other problem. It is temporarily kept there waiting to be taken to the last office (buried)

Corpse disposition

DEMO DEMO DEMO MRN: 1234-00-00-03/2017 DoB: 1994-01-01 Gender: MALE Age: 23 Years

PREVIOUS VISITS VITAL SIGNS CLERK SHEET DIAGNOSIS INVESTIGATION INVESTIGATION RESULTS TREATMENTS BLOOD REQUEST **DISPOSITION**

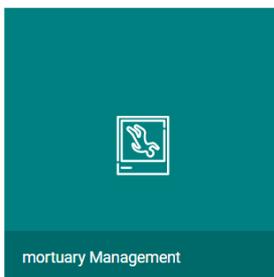
Deceased

Immediate Cause of Death *
cause of death

Other underlying conditions *
undelying contition

SEND TO LAST OFFICE

☰ 🏠 👤 🔔 ↻ LOG OUT



Search corpse using MRN

Navigation: Home, Profile, Notifications, LOG OUT

Menu: STORAGE REQUEST, MORTUARY CLASS, STORAGE COST, MORTUARY, CABINETS, CORPSE SERVICES, GATE PASS, DISCHARGE, REPORTS

Search corpses using record number *

00-00-} X

- ABIGAE DEVINE HEKIMA 1234-00-00-01/2017 0787665544
- SMAWEL SAMWEL SAMWEL 1234-00-00-02/2017 0786778866
- DEMO DEMO DEMO 1234-00-00-03/2017 0787665544
- AMINA AMINA JUMA 1234-00-00-04/2017 0787667788

Register mortuary grade

Navigation: Home, Profile, Notifications, LOG OUT

Menu: STORAGE REQUEST, MORTUARY CLASS, STORAGE COST, MORTUARY, CABINETS, CORPSE SERVICES, GATE >

MORTUARY GRADE

GRADE J SAVE

Register storage cost by searching the grade and assign price as per payment categories

Navigation: Home, Profile, Notifications, LOG OUT

Menu: STORAGE REQUEST, MORTUARY CLASS, STORAGE COST, MORTUARY, CABINETS, CORPSE SERVICES, GATE >

Search for mortuary grade to set price

GRADE Z

Referral:

700000

Starting Year: 2017-10-01

Ending Year: 2018-01-08

SAVE

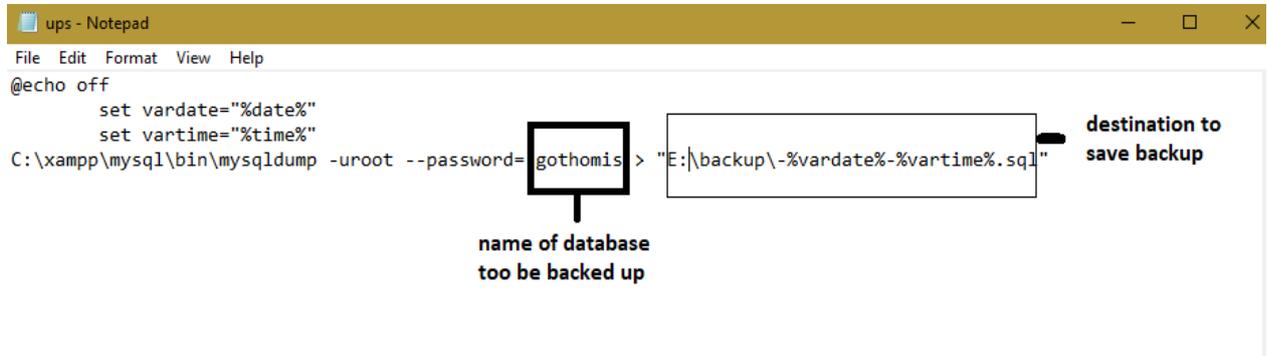
Before a patient is discharged, must have a get pass.

Once all corpse payments are cleared a patient can be discharged.

CREATING AUTO BACKUP

Create a new file with .bat extension so as to write backup scripts **example: ups.bat**

Write these scripts and then save file



```
ups - Notepad
File Edit Format View Help
@echo off
    set vardate="%date%"
    set vartime="%time%"
C:\xampp\mysql\bin\mysqldump -uroot --password=gothomis > "E:\backup\-%vardate%-%vartime%.sql"
```

Annotations in the screenshot:

- A box around 'gothomis' with a line pointing to the text: **name of database too be backed up**
- A box around the path 'E:\backup\-%vardate%-%vartime%.sql' with a line pointing to the text: **destination to save backup**

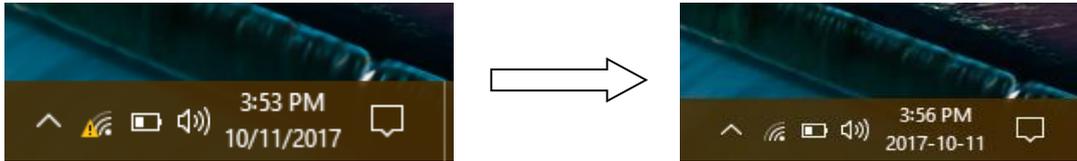
@echo off

set vardate="%date%"

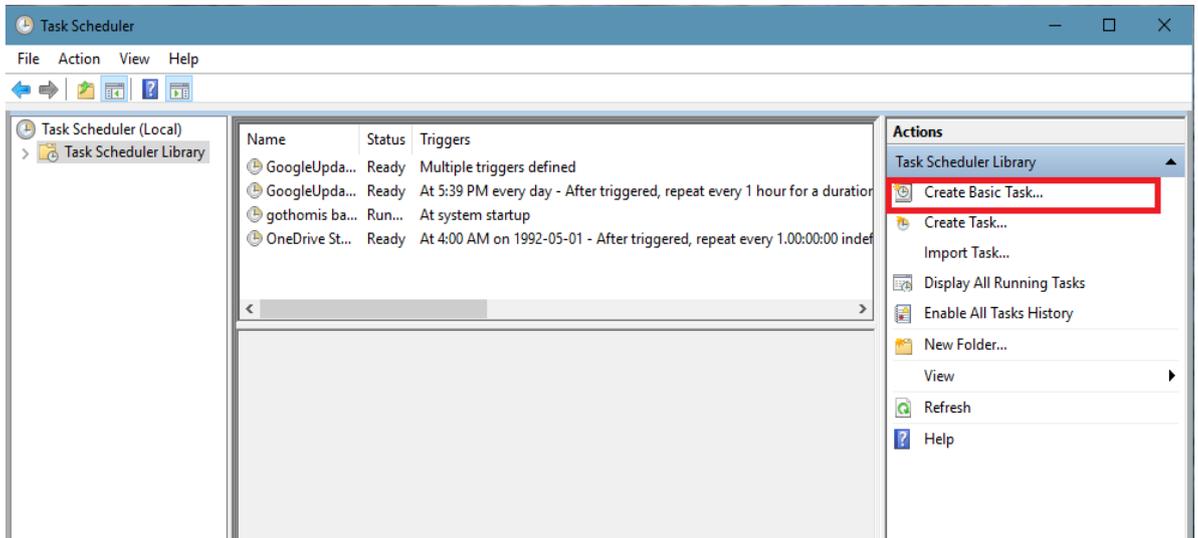
set vartime="%time%"

C:\xampp\mysql\bin\mysqldump -uroot --password= gothomis > "E:\backup\-%vardate%-%vartime%.sql"

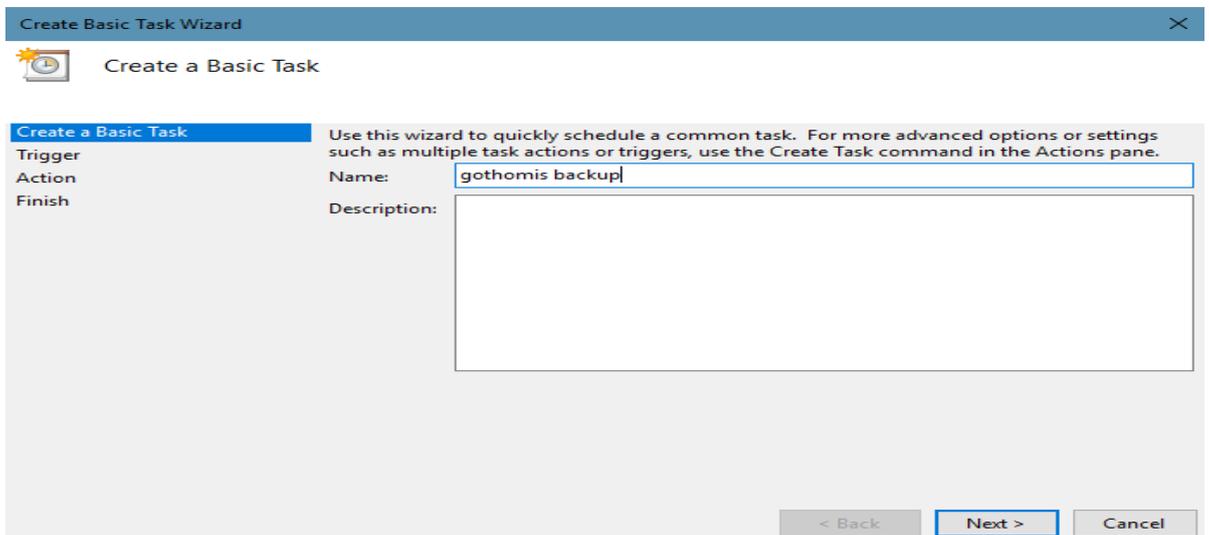
1. Change date format to the format that does not include { / }



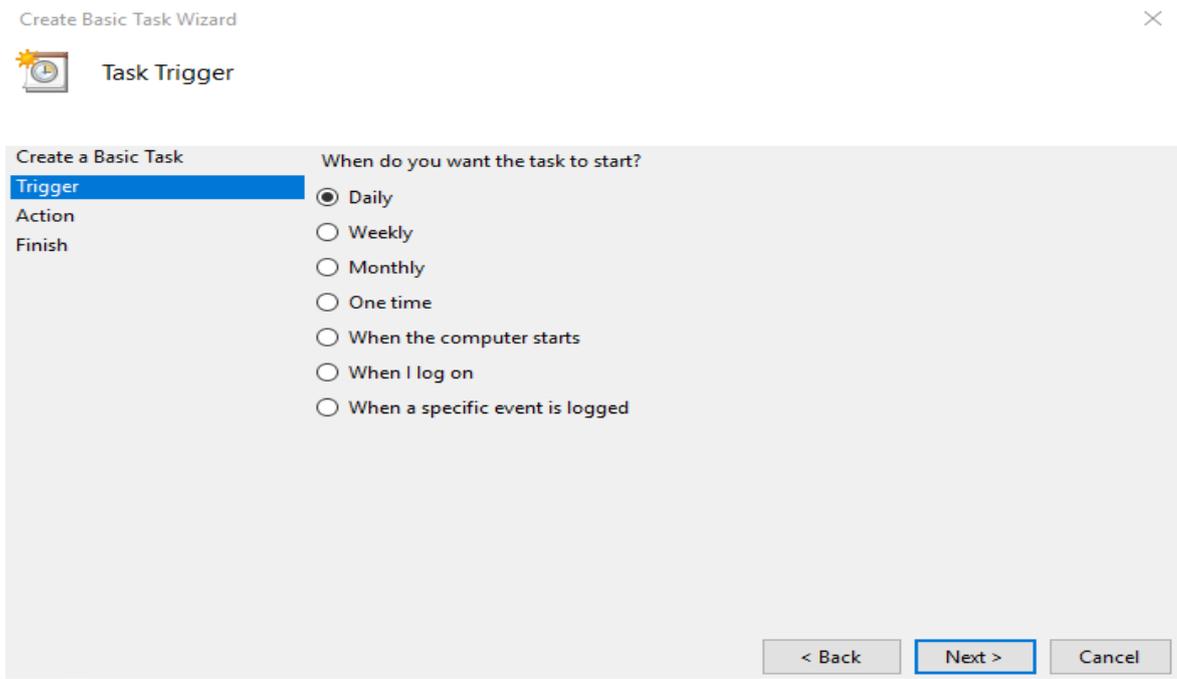
2. Open Task Scheduler window to create a backup schedule for the system and click **Create Basic Task**



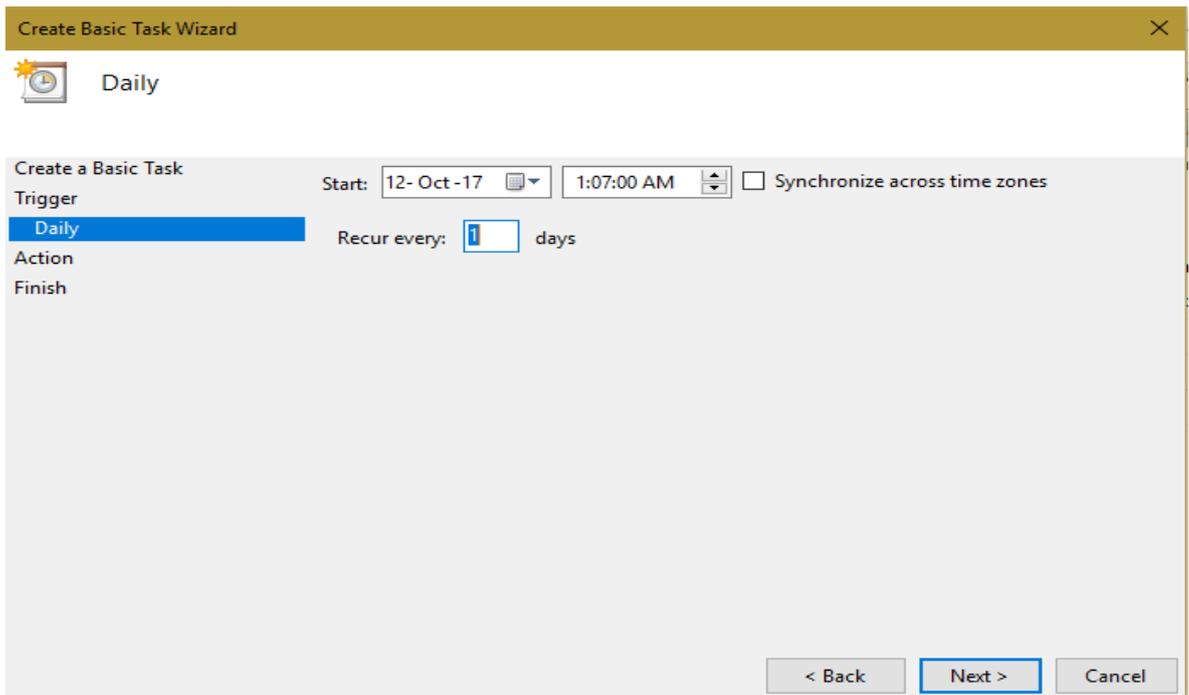
3. New window will pop up to allow to create name of the schedule then click next



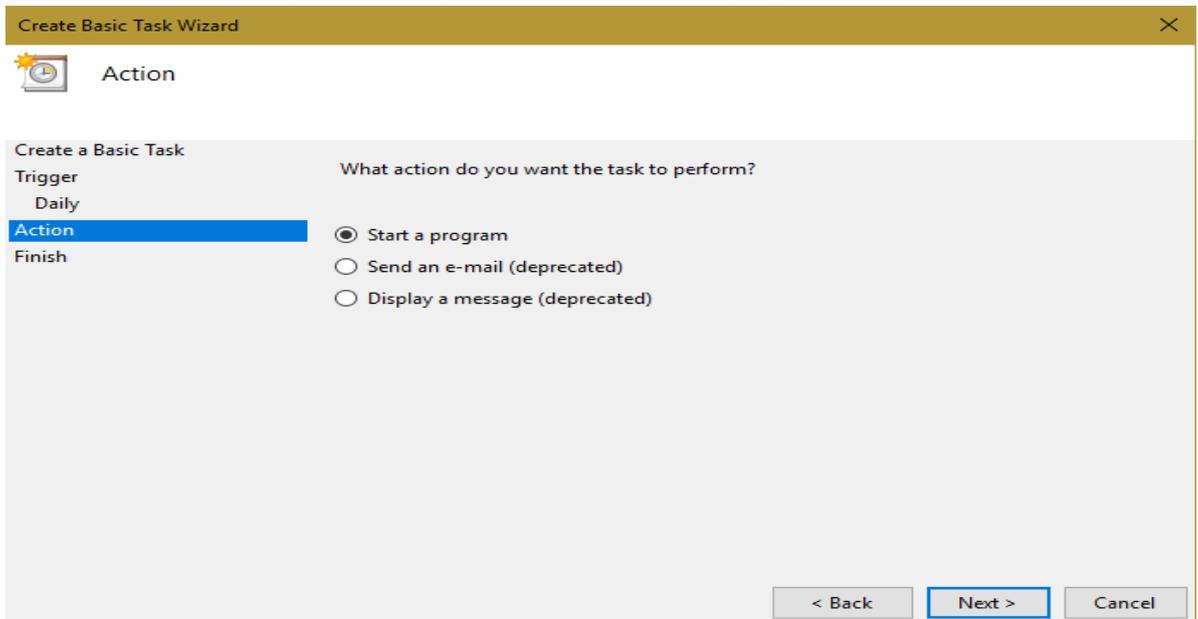
- This window will open to allow user to choose how often for backup to occur then click next to continue.



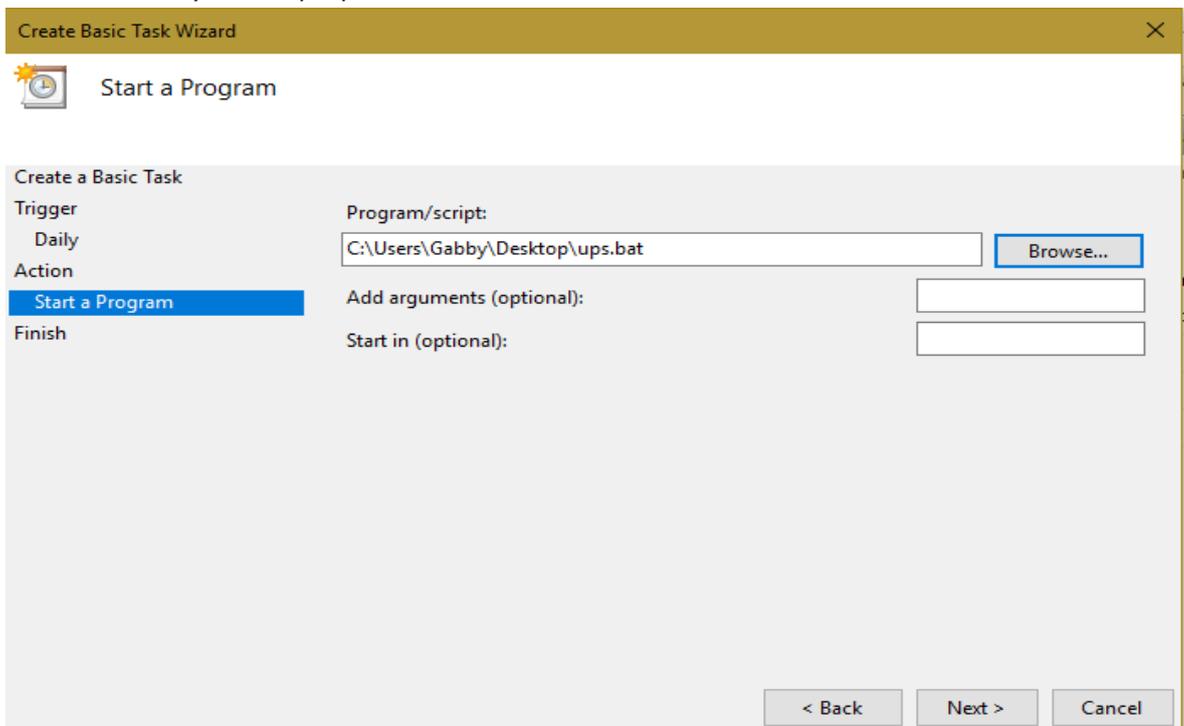
- Set time for backup to occur then click next



6. Set which actions to be performed by this task select **start a program** then click next



7. Browse to the destination where the script is saved and select the script **example** :
"C:\Users\Gabby\Desktop\ups.bat"



8. Then finish set up the task will appear to the task schedule list. Run task to test script.