

HOSPITAL MANAGEMENT INFORMATION SYSTEM

(USER GUIDE MANUAL)

Client : Mbwambo Super Specialized Hospital
Developed by : Zoomtong Company Limited

ABBREVIATIONS

- HMIS : Hospital Management Information System, sometimes referred to "Health Management Information System"
- LAN : Local Area Network
- UI : User Interface

CHAPTER : OVERVIEW

Introduction

Hospital Management Information System (HMIS) is a web based computer system which manage day to day Hospital information, the key actor of the system being the patient. In other word, HMIS is a computer system which track all movement of the patient while in a hospital, the patient can be out-patient or in-patient. The system also assist the management to get various reports for different services, example of such service is operations, admission, investigations e.t.c. The system also manage financial records.

System Composition

HMIS is a composition of subsystems which can talk to each other, such subsystem are : -

1. User Accounts : - Manages System Users, Groups and Job Title. It is also responsible for Authentication to the system, Authorization (grants permission) and Auditing (keep track of user system logs).
2. Patient : - This is where the registration of patients being done, searching previous patients. All details of the patient can be found here.
3. Finance : - All financial matters are being done in the finance subsystem. This part is responsible for raising invoices, issuing receipts as well as defining services. A service in this system, is referred to hospital services targeting the client.
4. Nurse Station : - This subsystem handles most of the activities performed by Nurse Station, mainly being Triage.
5. Doctor Consultation : - This part is where the Medical Doctor interacts the most, this part can request any hospital service for the patient, as well as viewing the results of the request.
6. Laboratory Examination (Investigation) : - This handles investigations either in a laboratory, X-Ray or Ultra-Sound.
7. Pharmacy : - This part deals mainly with drugs dispensing.
8. Admission : - Handles admission.
9. Theatre Management : - Activities which takes place for in-patient who is about or has been operated.

Where to get the system

Since the system is a web-based system, and the server resides at the hospital, for the time being you need to be physically at the hospital's Local Area Network (LAN) to access the system.

Step 1: Open your favourite web browser (recommended "Google Chrome" or "Firefor" web browsers)

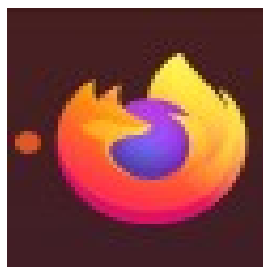


Fig: Double Click any of the icons as shown above to open a Web Browser.

Step 2: Enter address of the system to the address bar of the browser, the default address is 192.168.8.2/hmis



Fig: Enter address of the system in the address bar and click enter.

After entering the address and clicking "Enter" key on your keyboard, the system will open as shown below, if it does not open check your if your computer is connected to the hospital's network, or you have typed correctly.

A screenshot of the Health Management Information System (HMIS) login page. The page has a dark gray header with the text 'Mbwambo Super Specialized Hospital'. Below the header is a blue banner with a small icon and the text 'Health Management Information System'. The main content area is white and contains a login form. The form has a title 'Account Login' and two input fields: 'Username' and 'Password'. Below the input fields is a blue button labeled 'Log On System'. The footer is dark gray and contains the text 'Copyright © 2022 Mbwambo Super Specialized Hospital'.

Fig: Congratulation, you have successful opened the system (The appearance of the system, might vary from time to time, however this is the default view of the system)

How to Logon to the system

You need username and password to logon to the system. The username and password, is the one provided to you by your system administrator. Every use of the system must have his or her own username and passwords. Note Email addresses registered with the system can be used instead of username, and also both username and passwords are case sensitive.

Once you have supply username and password, click the "Log On System" button.

Fig:
You
have

Account Login

Username

deeud

Password

.....

Duplicate or no record found

Log On System

supplied either a wrong Username or wrong Password.

Fig:
You
have

Account Login

Username

Basila.aloycE

Password

.....

The system could not proceed to login, due to security concerns

Log On System

supplied correct Username and Password, however the username has failed case testing. In figure above "Basila.aloycE" while the saved one is "basila.aloyce".

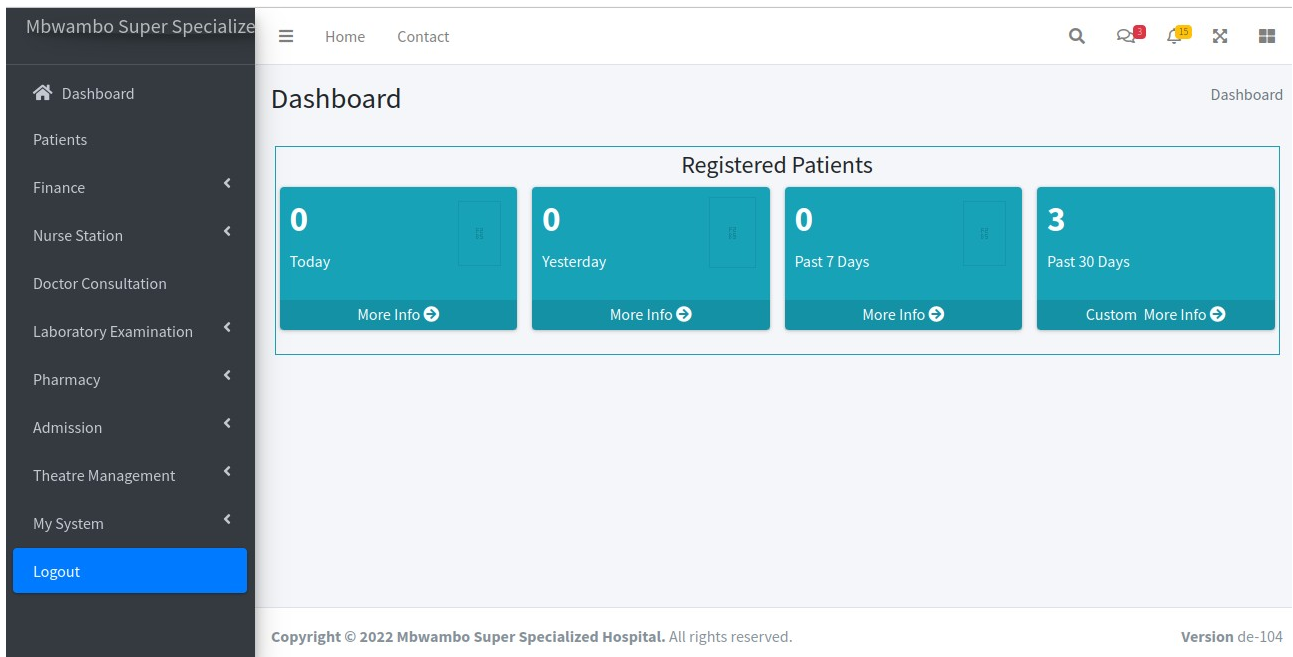


Fig: If you get a page resembling to this, you have successful Logged in the system. The appearance of page can be different from person to person due to Authorization grants (Access Levels) for each user. In case you need to logout, click "Logout" in the bottom of the LHS (Left Hand Side) menu.

General Look and Feel of the system

All subsystems or modules have almost the same look and feel, which comprises of a Search Box, Advanced Search (Search based on criteria), button to add a New Record. The User Interface (UI), contains also tabular search results (after searching), where on the further right consists of *Edit*, *Delete* and *Details* link against each record.

Let me elaborate using the Patient Module,

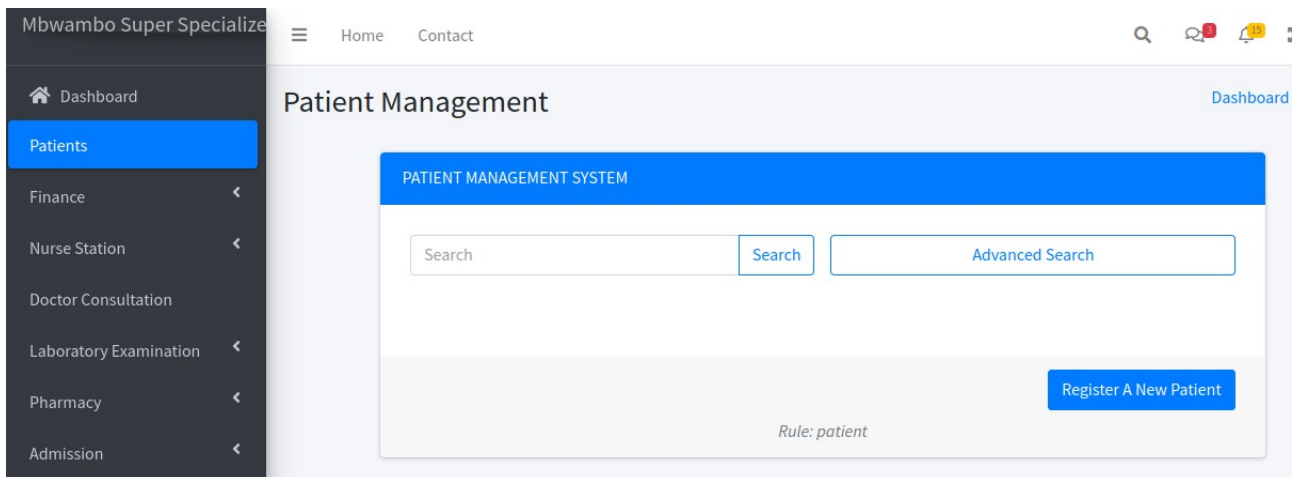


Fig: Search Box, Advanced Search and "Register A New Patient" or "Add New Record" for other modules.

Dashboard

Patients

Finance

Nurse Station

Doctor Consultation

Laboratory Examination

Pharmacy

Admission

Theatre Management

My System

Patient Management

Dashboard

PATIENT MANAGEMENT SYSTEM

Ngoya

Search

Advanced Search

#	Surname	Other Names	Dob	Sex	Phone	Registration Type	
1	Ngoya	Ndimangwa Fadhilli	05/06/1983	Male		Min Registration	<div><div>Details</div><div></div><div></div></div>

Register A New Patient

Rule: patient

Fig: Searching the Patient Name, I just typed "Ngoya" in the Search box and clicked "Search" button and the records were returned. Once you search, the system will give you suggestion as you type. On the right of the returned record, there is three buttons Details, Edit and Delete (Note: For patient you can not delete).

Note: The system is built to assist the user while entering data, incase you have made an error, the system will give you the clue, what went wrong.

CHAPTER : PATIENT MANAGEMENT SYSTEM

The life of the Patient in the system begins at this point, all matters of registration are at this point. This module handles also patient who had previous served by the system for a different case.

Where to get Patient Module

On the Left Hand Side Menu, click Patients and the module will open as shown below.

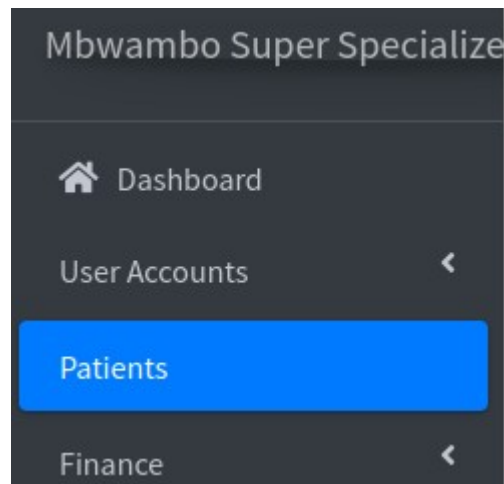


Fig: Menu for Patient (the bluish background with a caption "Patients")

How to register a New Patient

The system handles three types of Patients

1. Transfer In
2. Min Registration (*The patient who uses small card or in common language, "kadi ndogo"*)
3. Full Registration (*The patient who uses large card or in common language, "kadi kubwa"*)

Note in all these three cases, the system will issue a registration number, the format of the Full Registration is the default one, which is being used manually at the hospital.

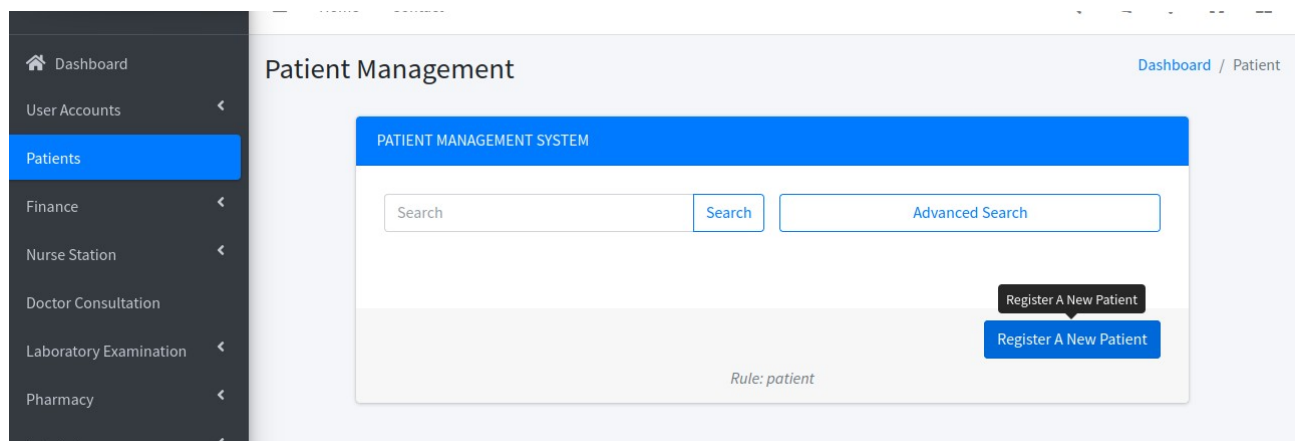


Fig : Patient Registration System, click "Register A New Patient" to register a new Patient.

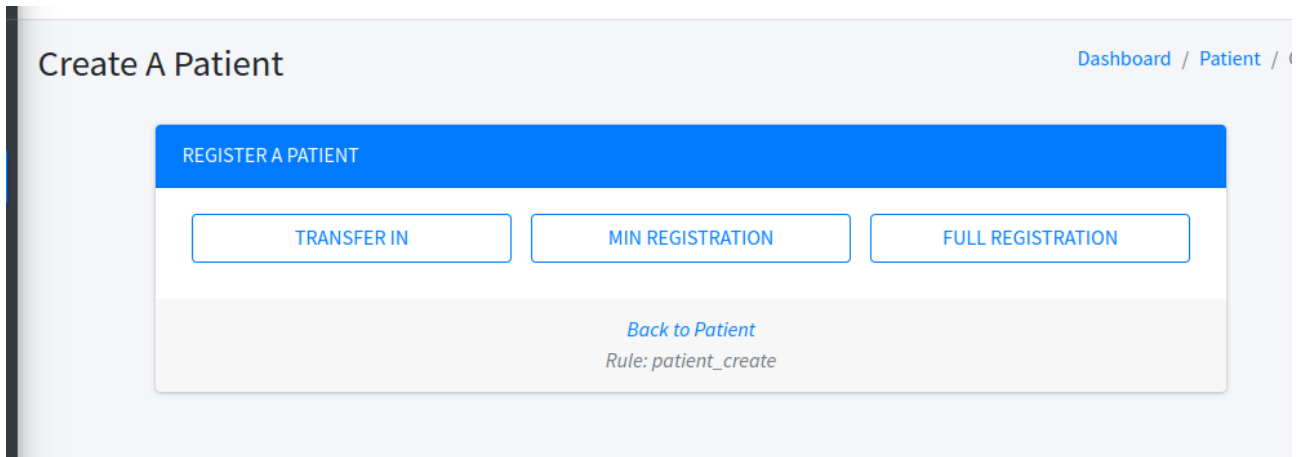


Fig : Once a "Register A New Patient" is clicked, page of registration types will open.

Registration of a New Patient, for any of the three types of patients are the same, what differ is the details of the boxes you fill, for the sake of this manual, we will use "Full Registration" as it contains everything present in the other registrations. Note at the end of each registration, the system will forward the notification to Finance module, specifying the type of service and the amount as defined in the Service sub-module of the Finance Module.

REGISTER A PATIENT

OFF

Registration Number

* Surname

Surname

* Other Names

Other Names

* Date of Birth

MM/DD/YYYY

* Sex

(-- Select --)

* Consultant

(-- Select --)

OFF

Medical Insurance

(-- Select --)

* Address

Address

* Tribe

Patient Tribe

* Religion

(-- Select --)

* Father Name

Father Name

Occupation

(-- Select --)

Balozi

Balozi/Tencell Leader

Phone

07XXXXXXXX

Register Patient

Fig: Full Registration form

The form resembles the actual manual form, however the important box is the first one, which is about "Registration Number", by default this box is OFF meaning the system will do automatically generate registration number, however if you slide the Left button which is written "OFF", the box will go ON, and will allow you to type Registration number (For safety leave it by default OFF, unless if you are registering the Patient who had already have the registration number, in the previous manual process).

Now you can proceed filling, the Patient details, once you complete click the "Register Patient" button, below the form, if everything has gone well you will get a screen below

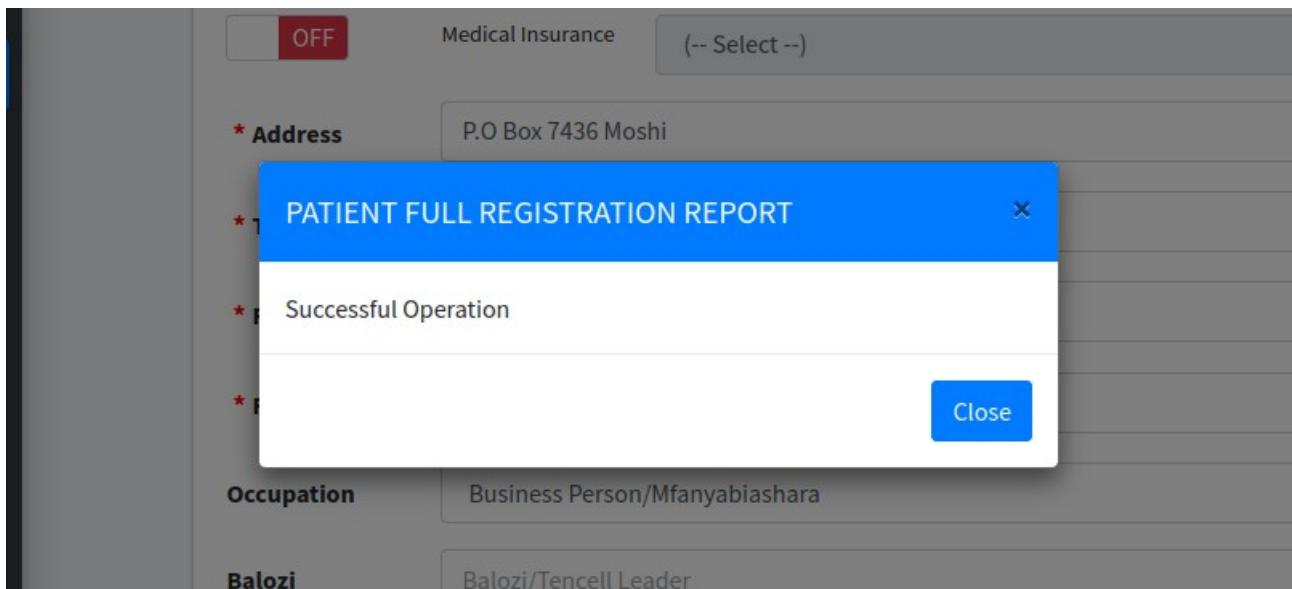


Fig: You have successful added a New Patient, click "Close" to proceed.

Since we have entered a new Patient, for my case I used "Ndimangwa02 Fadhili02" as Other Names, and "Ngoya02" as surname. Now it is time to move closely to see what the system has done.

Basically, adding a New Patient several things has happened at once

1. A New Record has been added
2. A New Registration Number (Unique) has been generated in case Registration Number box were OFF
3. Finance Module has been updated with the information of the client.

Searching the Added Patient

In the patient module you can simply search by Surname, other given names, registration number. Let us use surname

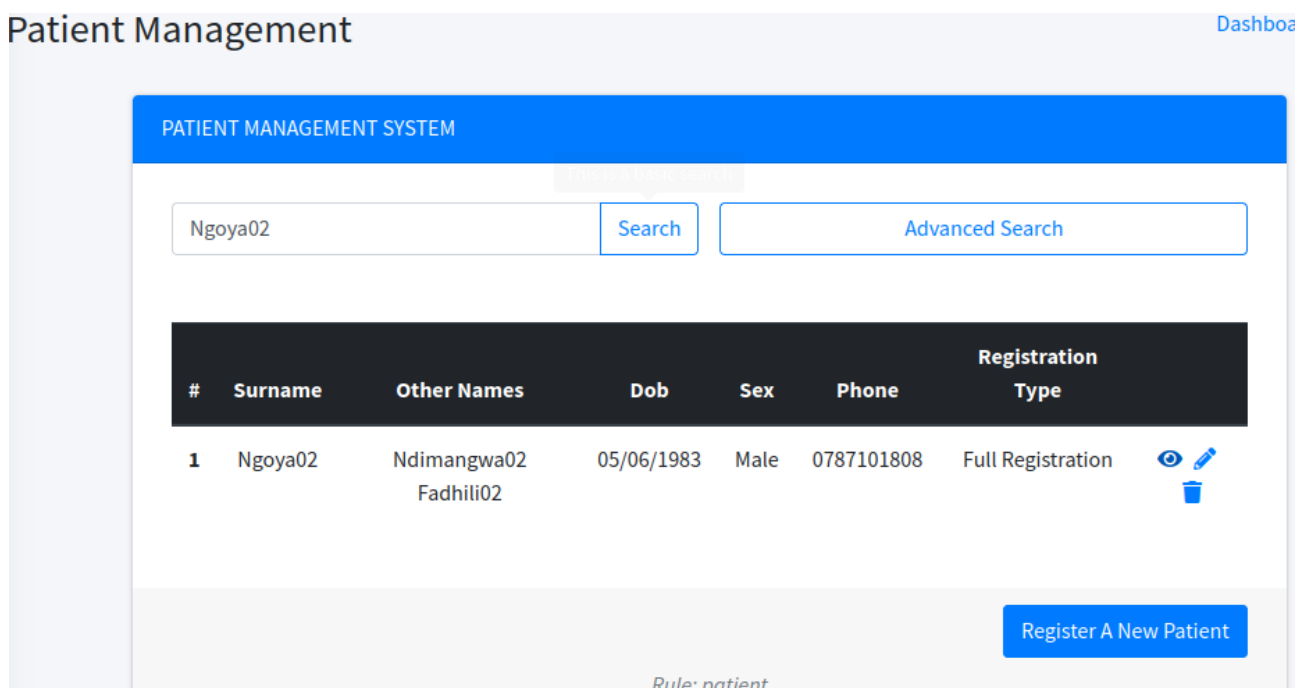


Fig: Searching the existing Patients

Now let us see the details of what we have entered, just click on the Right Hand Side (Against the name), the icon with eye-shaped



Fig: Details, an eye-like icon, click it

DETAILS

	Name	Value
1	Time Of Creation	10/24/2022
2	Time Of Updation	10/24/2022
3	Registration Number	11-59-89
4	Registration Type	Full Registration
5	Status	Alive
6	Surname	Ngoya02
7	Other Names	Ndimangwa02 Fadhili02
8	Dob	05/06/1983
9	Sex	Male
10	Address	P.O Box 7436 Moshi
11	Religion	Christian
12	Father Name	Fadhili02 Ngoya02
13	Occupation	Business Person/Mfanyabiashara
14	Blood Group	--

Patient Monitor

Case is OPEN
Current Stage : *New Registration*
Next Stage : *Triage*
Assigned Consultant : JASPER SAID MBWAMBO (Specialist)

Visit Count : 1

Balance

No Pending Balance

View Patient History

Fig: Details page of the Patient entered, the Balance section shows "No Pending Balance", because the Finance personnel has not risen any invoice against this patient, however the patient can not get any service unless a Finance personnel clears him.

Editing Patient Information

Sometimes a mistake may occur while registering a patient, and usually a Patient can move from being a "Small Card" to "Large Card", in this scenarios you do not have to re-enter the patient details, you just need to Search the Patient as usual, and click the edit icon (*A pencil shape icon, just besides the Details Icon*), and you will get an Edit/Update page

UPDATE PATIENT

OFF

11-59-89

* Surname

Ngoya02

* Other Names

Ndimangwa02 Fadhili02

* Date of Birth

05/06/1983

* Sex

Male

* Consultant

JASPER SAID MBWAMBO

OFF

Medical Insurance

-- Select --

* Address

P.O Box 7436 Moshi

* Tribe

Pare

* Religion

Christian

* Father Name

Fadhili02 Ngoya02

Occupation

Business Person/Mfanyabiashara

Balozi

Balozi/Tencell Leader

Phone

0787101808

ON

Blood Group

O RhD positive

Update Patient

Fig: Update Patient Details

CHAPTER: FINANCE

Everything that the system can offer to the patient, is defined as Service and these services are grouped in categories "Service Category". Putting it in a simple language, a service is the very specific thing which the system can offer to a client, which defines the amount to be paid if any and if that service is countable. A Service is a backbone of the Finance system.

An Example, while doing a new Registration, the service corresponding with Full Registration "kadi kubwa" is called "*OPENING FILE*", while the one corresponding with Min Registration "kadi ndogo" is called "*OPENING CARD*", which means immediately after doing registration, the system will submit the correct amount to the Finance Module.

Where to get Finance Module

On the Left Hand Side Menu, click Finance and the module will open as shown below.

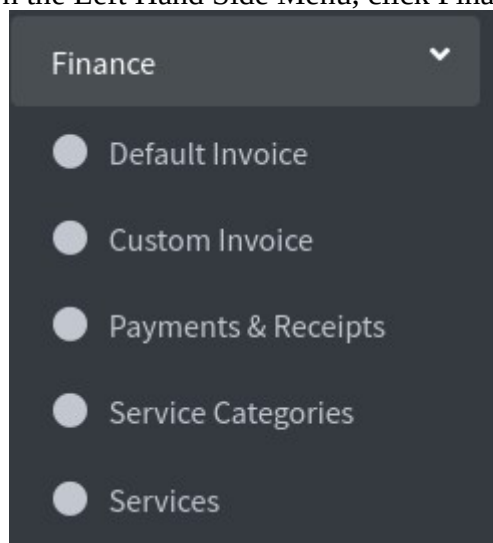


Fig: Finance Module with its sub-menus

What is found in Finance Module?

Finance module has submenus under it, which are exactly what the finance module is doing. Composition of Finance module is : -

1. Default Invoice : - This feature is used for all invoices which follows normal flow, and will be initiated automatically by the system. A good example is registration of a new patient, it is known after registration, based on type of registration the patient must pay for opening a file or a card, in this case the system will initiate an invoice queue, where the finance personnel will approve the invoice (and issue discounts if any).
2. Custom Invoice : - This feature is used if you want to raise invoice to the patient, which does not follow in the normal flow. A good example is when the patient has been admitted for operation, and the actual cost is not full known in advance, in this scenario a Patient will be issued multiple invoices depends on the number of days he/she will stay, the resources he/she will use.
3. Payments & Receipts : - This feature is used for issuing receipts, once the invoice is generated (*whether "Custom Invoice" or "Default Invoice"*), the receipt queue will be initiated, and once the finance personnel receives payment, he/she will issue the receipt. Note : A single invoice can have multiple receipts, a patient can pay multiple times until the amount specified in the invoice is completed. The system will not grant the next step until the invoice is paid in full. In case the hospital needs to give an offer to a patient, then there is a need of raising a "0" amount invoice, and receive "0" amount for that invoice, alternatively you can apply a discount of the same amount as invoice amount. However, you will need to

issue a receipt of "0" amount for that specific invoice. However for issues concerning Invoices and Receipts, the system does a large amount of work, and the work of finance personnel is quite simple.

4. Service Categories : - Service category is one of the simplest feature of the system, it simply categorises services in different groups. The system is being made with the following categories : - *Consultation, Contrast Studies, Endoscopic Surgery, Laboratory Examination, Nurse Station, Open Surgery, Pharmaceutical, Plain/Convention X-RAY, Registration and Ultrasound*. The system is not limited to these categories only, the client can add more categories depends on how the business grows.
5. Services : - Service defines the amount, countability of a service. The system is made with 232 different services, however services can be added on feature. Some of services are countable, example while issuing drugs, the quantity of drug is countable and this will reflect on the invoice. This means, each drug you add, the system will create a corresponding service for it (this happens automatically).

Now it is time to go in-depth on Finance Module

Default Invoice

In the normal flow of the system, the system will automatically initiate the invoice queue. An invoice queue is a prospective invoice (it is not yet to be called invoice, it just need the finance personnel to complete it to become an invoice).

To create a Default Invoice, the following are steps : -

1. Open the Finance Module, *click Finance Menu*.
2. Click the "Default Invoice", it will open default invoice page.
3. Click on the "Create A New Invoice" button , on bottom of the page (bottom-right on large screen, or just bottom on small screens).

Raise/Create Patient Invoice Dashboard / Patientinvoice /

CREATE A NEW INVOICE

Search Search

	Surname	Given Names	Sex	D.O.B	Action
1	Ngoya02	Ndimangwa02 Fadhili02	Male	05/06/1983	New Registration Create Invoice

[Back to Invoice](#)
Rule: patientinvoice_create

Fig: Queue of Prospective invoices

4. In the list (if any), you will see the name of patients, with "Create Invoice" against each record. Note : In the Action column, you will see the summary of what the invoice is for. For the figure above, we have one item in list for patient "Ndimangwa02 Fadhili02" for "New Registration"
5. Click "Create Invoice" against the row in the list which you want to create invoice for, and a Invoice creation window will open as follows

Invoice for Ngoya02, Ndimangwa02 Fadhili02

Tanzania Shilling(TZS)

Service Name	Unit Cost	Quantity	Amount
1 OPENING FILE	25000	1	25,000
SUB - TOTAL			25,000
Discount			0

☐ OFF
 Invoice will be charged to

* Medical Insurance

-- Select --

* Invoice Name
 Ngoya02, Ndimangwa02 Fadhili02

Comments

TOTAL INVOICE VALUE : 25,000

Generate Invoice

Fig: Invoice creation window, you can apply discount if you wish. Note the system will keep track of who prepared this invoice.

- Click "Generate Invoice" if the invoice details are okay with you, then you will get a report message as a feedback of your action. Immediately after the invoice has been generated, the system will initiate a Receipt Queue, so as to track receipts related to the generated invoice. You can click "Make Payment" if the patient is ready to pay at this moment, or he/she can pay later. You can click "Download Invoice" to get the invoice.

CREATE A NEW INVOICE

Invoice [MBW/INV/0016] of amount [25000], were successful created

Download Invoice

[Back to Invoice](#)
[Make payment](#)

Rule: patientinvoice_create

Fig : Invoice creation report, it gives option of "Make Payment" or "Download Invoice". At this point, if you go to the Details Page of this patient, you will see a balance of Tsh. 25,000 in the balance section.

7. Click "Download Invoice", if you want to print, however printing invoices is not necessary, since, you can still search for the invoice and print it later.

Mbwambo Super Specialized Hospital

Invoice

Date: 2022-10-26:10:49:36
Invoice Number: MBW/INV/0016

Address: P.O Box 870
City: : Moshi , Region: Kilimanjaro
Country: Tanzania

BILL TO:
Ngoya02, Ndimangwa02 Fadhi02

Currency : Tanzania Shilling (TZS)

S/N	Description	Unit Cost	Quantity	Amount
1	OPENING FILE	25000	1	25000
SUB-TOTAL				25000
DISCOUNT				0
TOTAL				25000

Amount in Words: twenty-five thousand
(Patient : Ngoya02, Ndimangwa02 Fadhi02)

Remaining Amount : 25000
Paid Amount : 0

Prepared By: admin
Printed By: admin
Printed Time: 2022-10-26:11:56:28

Mbwambo Super Specialized Hospital

Fig : A PDF generated invoice

Up to this point, you have been able to generate an invoice. Note :- The procedures for invoice generation is the same, no matter what type of service you are dealing with, the system will autofill details automatically.

Custom Invoice

Custom Invoice is an invoice initiated at any time to an existing patient. It does not matter what stage the patient is, Custom invoice can initiated even if the patient has other unpaid invoices. The following are procedures or steps to initiate the "Custom Invoice"

1. Open the Finance Module, click on "Finance" menu.
2. Click "Custom Invoice", and a regular "Search Patient" page will open.
3. Search for the desired client, for this time I will search "Fadhili".
4. The usual search results, will display a list of results, now click the "Proceed" button against a record of interest as shown below

BUILD CUSTOM INVOICE

Search a Patient who is targeted by this invoice

#	Surname	Other Names	Dob	Sex	Phone	Registration Type
1	Ngoya	Ndimangwa Fadhilli	05/06/1983	Male		Min Registration Proceed

[Back to Invoice](#)
Rule: patientinvoice_custom

Fig: Search results of the Patient, whom I need to build a custom invoice, click "*Proceed*" button

- Now you need to Select categories of services, you can select multiple categories, this window helps to narrow down the intended services, as shown below (*In my case let me choose OPEN SURGEY, REGISTRATION and ULTRASOUND*), then click "*Service Categories Selection*" button.

Select at least one category of services for Ngoya, Ndimangwa Fadhilli

Service Categories

ultra

S/N	Service Category	
1	Open Surgery	<input type="button" value="Delete"/>
2	Registration	<input type="button" value="Delete"/>

Service Categories Selection

Fig: Service categories selection, I have choosen"*Open Surgery*", "*Registration*" and I am finishing now with "*Ultrasound*", you can navigate back using the link "*Back to Patient Search*"

- Now you need to select services; Note: Only those services falling on the categories selected in the previous steps will be searchable, the rest will not be applicable, in my case let me select four one in Open Surgery category (*Cystectomy+urinary Diversion*), one in ultra sound (*USS WHOLE ABDOMEN*), one in registration (*OPENING FILE*), but I am not

limited to one only per category, let me add one more in ultra sound (*USS BREAST*), as shown below, then click "*Service Selection*" button.

BUILD CUSTOM INVOICE

Select at least one service from the list for Ngoya, Ndimangwa Fadhili

List of Services

USS BREAST|

S/N	Service Category	Currency	Amount	
1	Cystectomy+urinary Diversion	TZS	1200000	Delete
2	USS WHOLE ABNOMEN	TZS	45000	Delete
3	OPENING FILE	TZS	25000	Delete
4	USS BREAST	TZS	45000	Delete

Service Selection

Fig: Service Selection

- Once you have clicked the "*Service Selection*" button, you have initiated the invoice. Now you can go to the "*Default Invoice*", and you can now proceed to create your invoice.

Note: What we have done in the "*Custom Invoice*" is to initiate the Invoice queue, then your custom invoice will be treated just like, a Default Invoice. We can prove this by going to the "*Default Invoice*", and the following initiation has done as shown in figure below

Invoice for Ngoya, Ndimangwa Fadhili

Tanzania Shilling(TZS)

Service Name	Unit Cost	Quantity	Amount
1 Cystectomy+urinary Diversion	1200000	1	1,200,000
2 USS WHOLE ABNOMEN	45000	1	45,000
3 OPENING FILE	25000	1	25,000
4 USS BREAST	45000	1	45,000
SUB - TOTAL			1,315,000
Discount		0	

OFF

Invoice will be charged to

* Medical Insurance

(-- Select --)

* Invoice Name

Ngoya, Ndimangwa Fadhili

Comments

TOTAL INVOICE VALUE : 1,315,000

Generate Invoice

Fig: Our initiated "Custom Invoice", you can follow all steps of "Default Invoice" to raise this invoice.

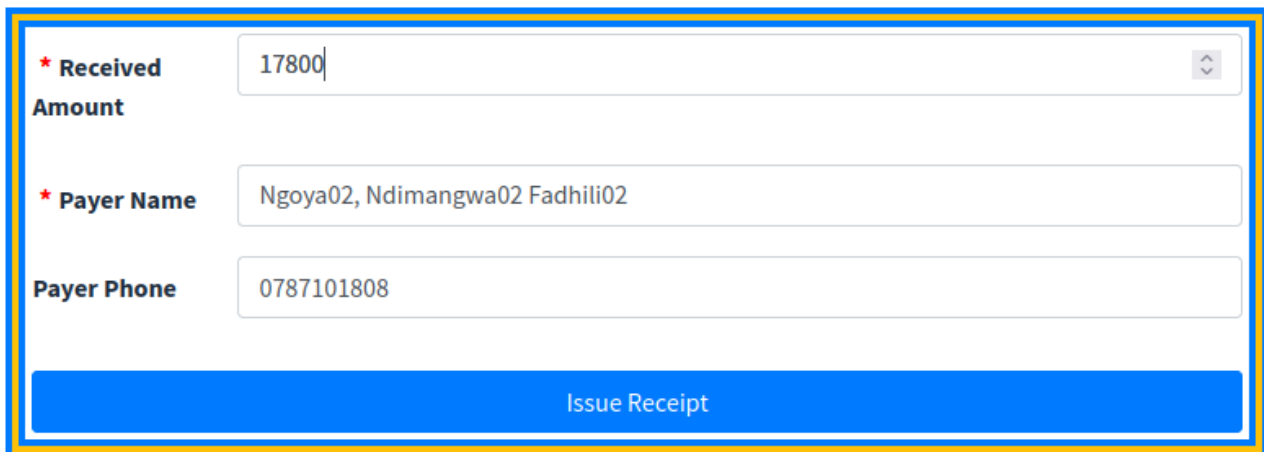
Payments & Receipts

While in invoices we have "Default Invoice -- System Initiated" and "Custom Invoice -- Manual Initiated", in the "Payments & Receipts" module, we have only System Initiated Receipts. Every time, you create an Invoice (it does not matter which one), the system initiate a receipt queue for a prospective receipts. The system will make sure, each invoice will have a corresponding receipts, an invoice is marked as closed, only if the amount in the invoice, is equal to the total of the corresponding receipts.

To create a receipt, the steps are similar to the generation of a "Default Invoice".

1. Open the Finance Module, click on "Finance" menu.
2. Click on "Payments & Receipts" submenu.
3. Click on the "Generate Receipt" on bottom of the page (*bottom-right on the large screens, and bottom on the small screens*).
4. You will get a list (if any) same like in "Default Invoice", search the Patient Name and click on "Make Payment" against the record you need to make payment.

5. A window will open as shown below, the system will fill the amount remained for this invoice, you can pay less, and next time pay for the remaining (*procedure are the same*)



* Received Amount 17800

* Payer Name Ngoya02, Ndimangwa02 Fadhili02

Payer Phone 0787101808

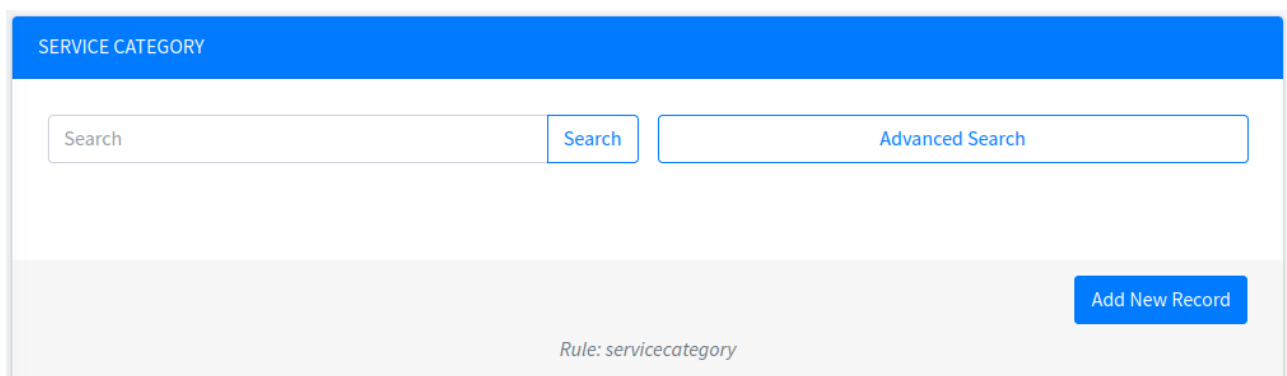
Issue Receipt

Fig: Filling Receipts details,I have decided to pay less

6. If everything is OK, click "*IssueReceipt*" button, and your receipt will be ready.You can repeat the steps to receive the remained payments or issue another receipt.

Service Categories Sub Module

To access "Service Categories Sub Module" go to "*Finance Menu*",then click "*Service Categories*" sub menu and a Service Category page will open as shown below



SERVICE CATEGORY

Search Search Advanced Search

Add New Record

Rule: servicecategory

Fig: Service Category page, what is important in the service category is the name of the service category

The figure above, resembles much with the already discussed Patient Module. This system uses the consistency Look and Feel interface, so there is no much to discuss here, all the operation supported in Patient module are supported here too.

Service Module Sub Module

To access "Service Module", go to "*Finance Menu*", then click "*Service sub menu*", and a Service page will open as shown.

Fig : Service page, looks just like other modules.

As we pointed out service is the backbone of the finance module, it defines how charging should be done. To view the important fields in the Service Submodule, let us click the "*Add New Record*" button or we can search any service, and click the "*Pencil icon*" to view Edit/Update page.

Fig : Service "*Add New Page*", the similar page will be seen, in "*Update/Edit*" page.

The service defines the name of the service, currency used for the service, amount for the service, category of the service and if the service is countable. In case the hospital decides to change the cost of the service, you just search the service and update the amount. Note: Services with different currencies, can not be put in one invoice.

The price of the Service has changed, what should I do?

It is simple, search the service and click update icon (*Pencil like shape*) then save the change. The new price will affect all future invoices. Let us try to change the price of Registration of a new Patient for "*large file*" from Tsh. 25,000 to Tsh. 27,000.

Here are the steps

1. Open the Service Submodule, go to "*Finance Menu*", then "*Service sub menu*"

2. Search the service, in our case it would *OPENING FILE* , as shown in the figure below

#	Service Name	Currency	Amount	Category
1	OPENING FILE	Tanzania Shilling	25000	Registration

Fig: Searching a Service "*OPENING FILE*"

3. Click on the "*Pencil icon*" on the right of the row, to open the edit window for the service.

* Name of Service: OPENING FILE

* Currency: Tanzania Shilling TZS

* Enter Amount: 27000

* Category: Registration

☐ * Countable

Update Service

[Back to Service](#)

Rule: service_update

Fig: Edit "*OPENING FILE*" service, as you can see I have updated to Tsh. 27,000. If I click "*Update Service*" , then the new value will take effect, and all future invoices will reflect the new amount.

CHAPTER NURSE STATION

One of the key component in this system is the Nurse Station, the nurse station is responsible for all activities carried by nurses. Issues like triage, dressing etc is being done at this part.

Where to get Nurse Station?

On the menu click, Nurse Station, then submenu will open with *Triage* or *Nurse Station* (which you will find all other activities, with the exception of triage).

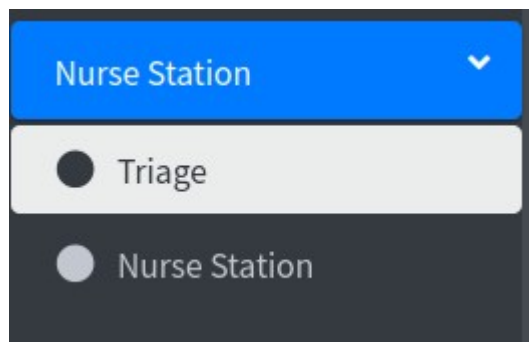


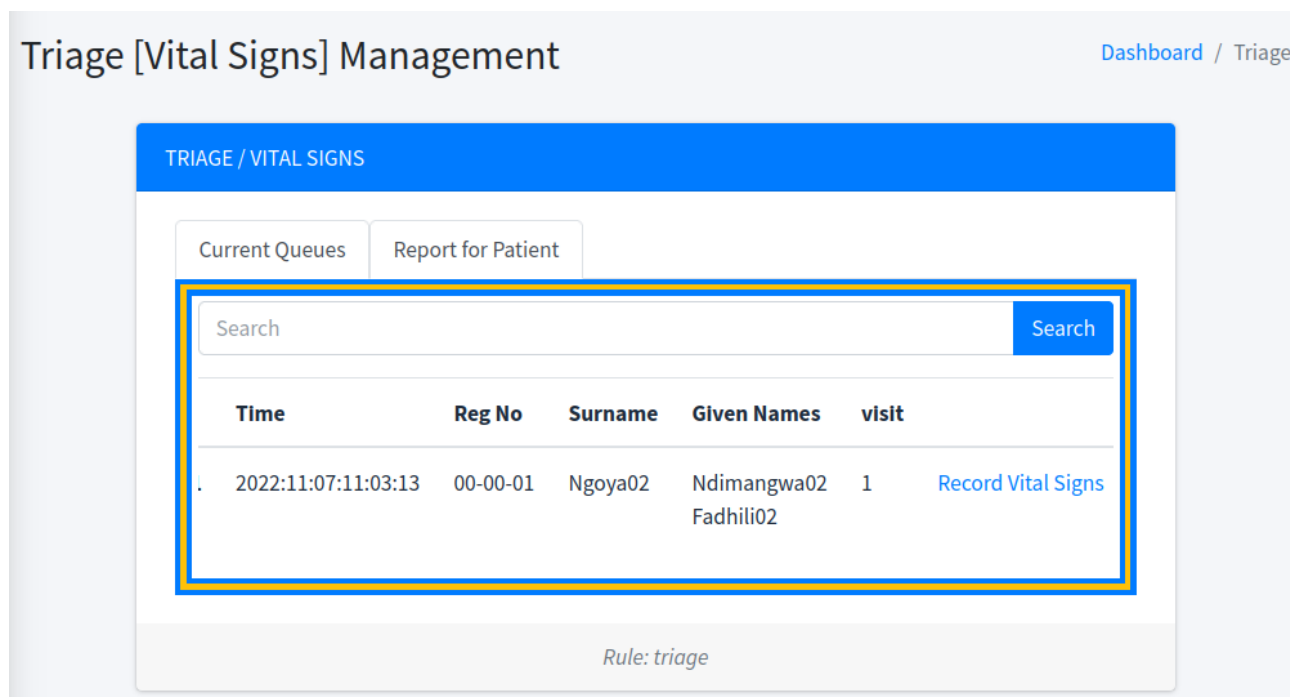
Fig: Nurse Station, comprises of "Triage" and "Nurse Station".

Triage

Triage is a submodule in the "Nurse Station", which is responsible for recording and tracking patient's vital signs.

Under "Nurse Station" menu, click "Triage" submenu, and the triage will open as follows

Fig: Home page for triage, showing the current queue for a patient waiting vitals signs recording



As you can see in the figure above, triage will open a default queue of patients who are waiting for their vital signs to be recorded.

Recording Vital Signs

There are two ways of recording vital signs for a patient : -

1. Recording Vital Signs from a default queue : - This is the common way, because the system will make sure by default, the client needs to record vital signs prior seeing a medical consultant (or a medical doctor), as you can see in the triage landing page, there is a queue of patient "*Ndimangwa02 Fadhili02 Ngoya02*", the system has detected, the client has opened a file, he has paid, and he needs to see the doctor, automatically the system has forced the client to triage.
2. Recording Vital Signs on demand : - This feature allows the nurse to record vital signs of a client, at any time (it can be on daily basis, hour basis etc), the system will keep track of each reading, and can produce graphs as the readings increases, this feature will be discussed more under the "*Report for Patient*" tab.

Recording Vital Signs from a default queue

On the triage default landing page, if there is any patient listed, on the far right hand, click the button "*Record Vital Signs*", and a page will open as below, just fill as required (Most fields are optional)

RECORD VITAL SIGNS	
Weight (Kg)	45
Height (cm)	146
Blood Pressure (mmHg)	119/78
Temperature (deg C)	36.9
Pulse Rate (bpm)	72
Respiration Rate (bpm)	64
Oxygen Level (%)	99.9
Record Vital Signs	
Back to Triage	

Fig : Vital Signs recording page, after filling just click "*Record Vital Signs*" button

Once you complete filling and saving the page, the system will forward the patient to the respective medical personnel.

If you noted, while opening the triage submodule, the page opened with two tabs at the top, the one with title "*Current Queues*" and the other with title "*Report for Patient*". Now we have gone through "*Current Queues*", it is time to navigate through "*Report for Patient*" tab.

Report for Patient tab

Click the "*Report for Patient Tab*" in the triage submodule, a page like patient module will open, you can search for your desired patient, and click search, the results will resemble mine below : -

TRIAGE / VITAL SIGNS

Current Queues

Report for Patient

Ngoya02

Search

Advanced Search

#	Surname	Other Names	Dob	Sex	Phone	Registration Type	
1	Ngoya02	Ndimangwa02 Fadhili02	05/06/1983	Male	0787101808	Full Registration	View Vital Signs

Rule: triage

Fig : Report for Patient (*This is a vital signs report*)

Click on View Vital Signs on the far right against the record of the search patient.

Once you click "View Vital Signs" , a page as follows will open, which will allow you to view report (PDF) or view Vital Signs graphs, the page will also allow you to "*Record Vital Signs -- this is what we referred to Record Vital Signs on Demand*".

VITAL SIGNS REPORT

Vital Signs Reports

Vital Signs Graphs

S/N	Created On	Updated On	
1	2022:11:07:11:57:23	2022:11:07:11:57:23	View Report

Record Vital Signs

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Rule: vitalsigns

Fig : Vital Signs report, we currently have one report, you may record as many as vital signs for this patient.

You can click on "*View Report*" against each report to get a PDF report summary of the vital sign.

Let me record at least four vital signs and go to graph, as you can see in the figure below I have recorded, extra three vital signs, so I have a total of four reports

VITAL SIGNS REPORT

Vital Signs Reports

Vital Signs Graphs

S/N	Created On	Updated On	
1	2022:11:07:11:57:23	2022:11:07:11:57:23	View Report
2	2022:11:07:12:02:58	2022:11:07:12:02:58	View Report
3	2022:11:07:12:03:48	2022:11:07:12:03:48	View Report
4	2022:11:07:12:04:42	2022:11:07:12:04:42	View Report

Record Vital Signs

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Rule: vitalsigns

Fig: More vital signs record.

Now, click "*Vital Signs Graph*" tab, you will have the option to navigate each of the vital signs component.

Temperature

Blood Pressure

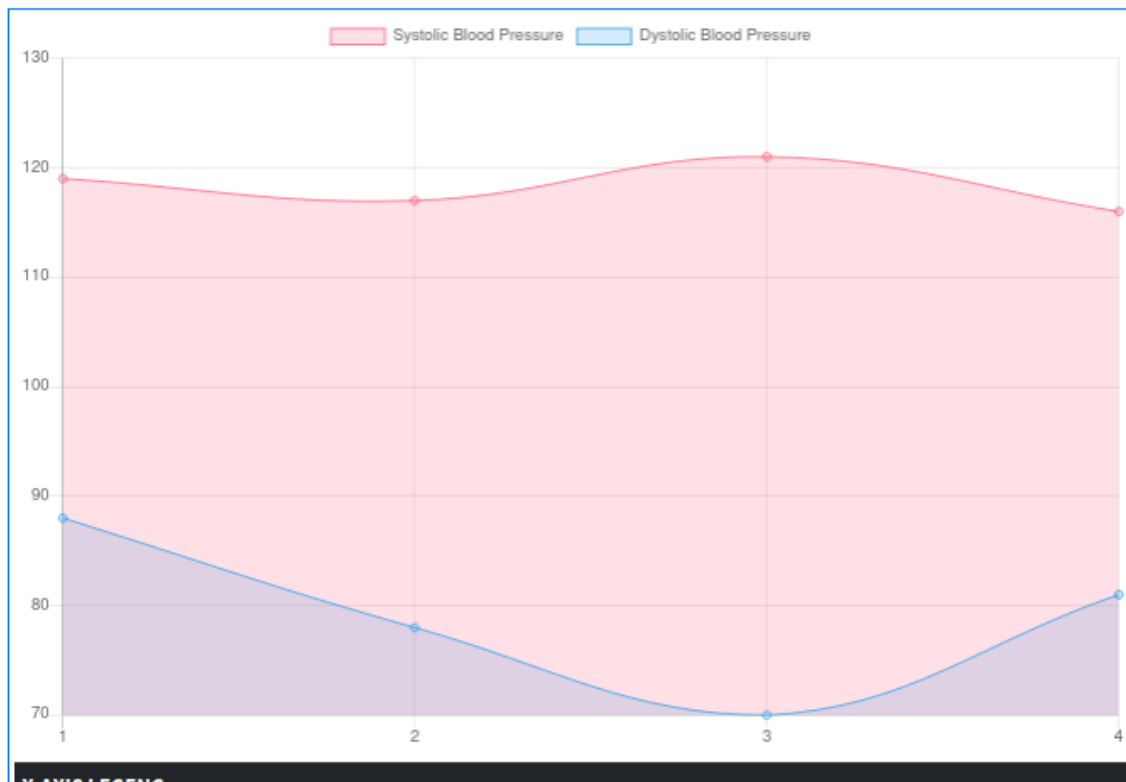


Fig: Graph, example here is the Blood Pressure graph

