



e-PHARMACY INFORMATION MANAGEMENT SYSTEM USER MANUAL

Prepared by: FRIDOLIN MPIZA, Tanzania Network and Software Engineer

Tel: (+255) 683 168 429 / (+255) 713 826 484

Website: fmpiza.github.io/webfridolin

Table of Contents

1.0 INTRODUCTION	3
2.0 SYSTEM DATA FLOW	3
3.0 SYSTEM DASHBOARD	4
3.1 Our Stock	6
3.2 Patient Registration.....	7
3.3 Store.....	9
3.4 Dispensing	11
4.0 Dispensing	11
4.1 Stock Taking.....	13
4.2 Nearly Expired.....	15
4.3 Requisition.....	16
5.0 CUSTOMER SUPPORT AND MAINTENANCE	18
6.0 MAINTENANCE.....	18

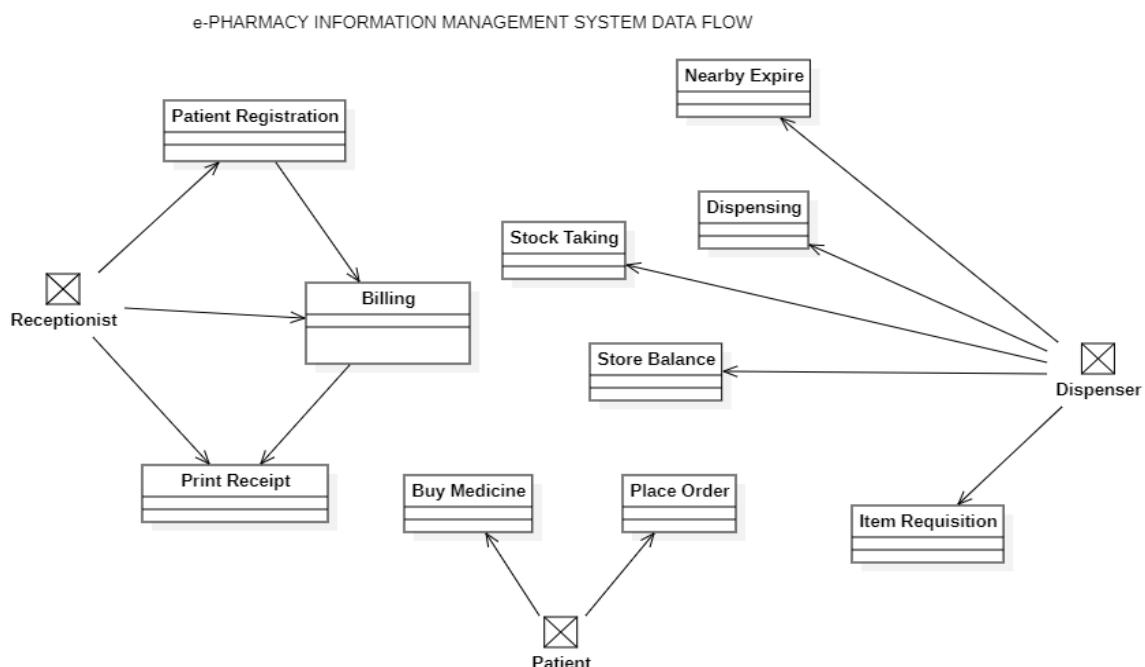
1.0 INTRODUCTION

e-Pharmacy Information Management System is An Automated system programmed at ensuring dispensing and other pharmaceutical related issues to be well done under the high level of efficiency. A level of system security is on the highest level of expertise since it comprises the use of different Hash enabled languages (SHA, Deffie Helman Encryption etc) whereby a system user can interact with the system under the highest level of data security against unauthorized people across the system.

Also, a System User can easily interact with a system on several issues concerning with all pharmaceutical related issues as well as the functionalities tend to follow the systematic approach / sequence towards the intended output from the electronic system.

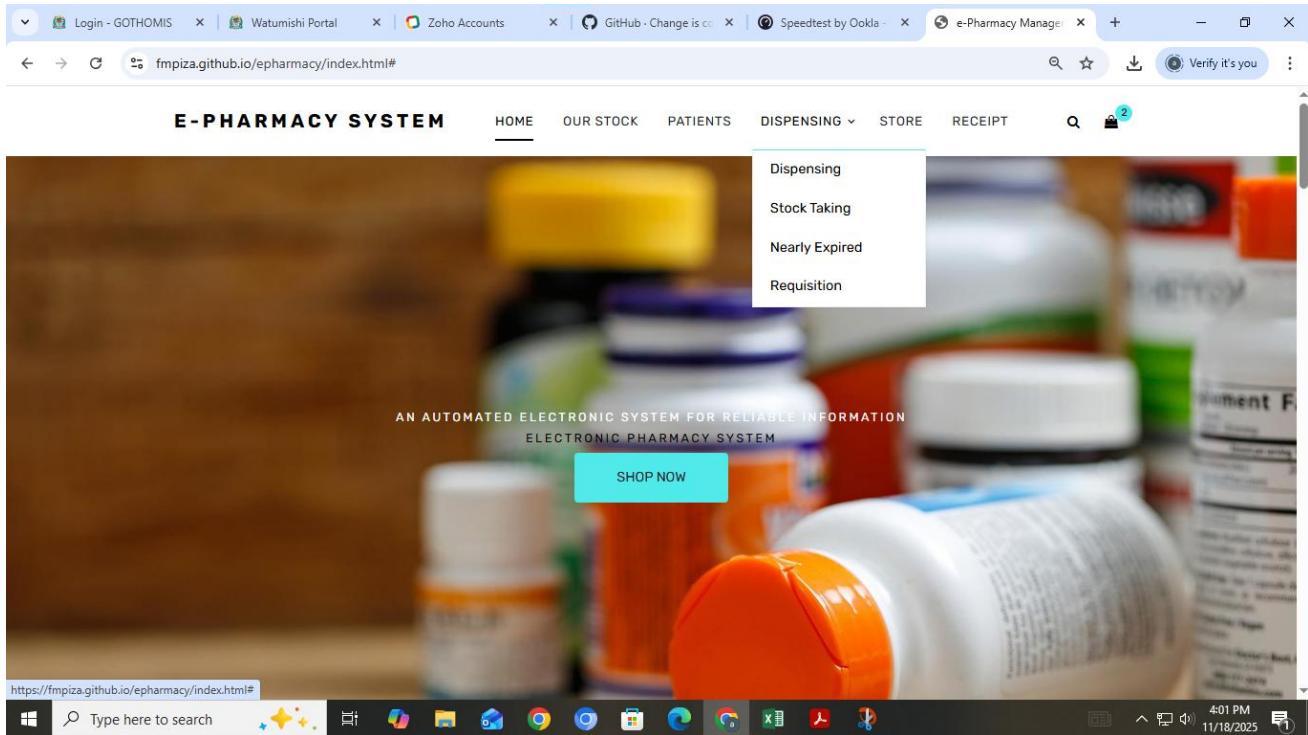
2.0 SYSTEM DATA FLOW

A system is formulated by considering the well sequence of data flow from the initial stage of system interaction to the final system subsections depending on the levels of system privileges among the different kinds of system users. The issue of data flow across the system is well described as follows;



3.0 SYSTEM DASHBOARD

A system is well developed under the consideration of an easy user interactivity whereby a system user can interact with the system without much complication of graphical user interface (GUI) to the different system subsections to reach their target across the system such including Stock, Patient Registration, Dispensing, Store and receipt Printing. From the Main System, User can Interact with several System Functionalities as appear. A system dashboard appears as follow.



POPULAR PRODUCTS

Gel
95.00 – Tsh 55.00

Syrup
Tsh 70.00

Solution
Tsh 120.00

Windows taskbar at the bottom showing various pinned icons and the date/time: 3:56 PM 11/18/2025.

About Us

An Automated Electronic Pharmacy Management System aimed at Medical pharmaceutical Services provision

Quick Links

Dispensing
Medical Store
Our stock

Contact Info

Arusha, Tanzania
(+255) 683 168 429
fmpiza82@gmail.com

Copyright © 2025 All rights reserved. Developed by Fridolin

Windows taskbar at the bottom showing various pinned icons and the date/time: 3:56 PM 11/18/2025.

3.1 Our Stock

On this section of the system, users can see items / Medication items which are available in Stock. Therefore, through this functionality the balance of items which are available are displayed as well as a system user can view price and a total number of items required to be bought from a supplier. It appears as follow;

The screenshot shows a web browser window with multiple tabs open at the top. The active tab is titled "e-Pharmacy Manager". The main content area displays a table titled "E-PHARMACY SYSTEM" under the "OUR STOCK" tab. The table has columns for Image, Product, Price, Quantity, Total, and Remove. There are two rows of data:

Image	Product	Price	Quantity	Total	Remove
	Ibuprofen	Tsh 55.00	<input type="button" value="-"/> <input type="button" value="1"/> <input type="button" value="+"/>	Tsh 49.00	<input type="button" value="X"/>
	Bioderma	Tsh 49.00	<input type="button" value="-"/> <input type="button" value="1"/> <input type="button" value="+"/>	Tsh 49.00	<input type="button" value="X"/>

The bottom of the screen shows the Windows taskbar with various pinned icons and the system tray.

The screenshot shows a web browser window with multiple tabs open. The active tab is 'e-Pharmacy Manager' at the URL fmpiza.github.io/epharmacy/cart.html. The page displays a shopping cart with one item: 'Bioderma' lotion, priced at Tsh 49.00, quantity 1. There are buttons for decreasing, increasing the quantity, and deleting the item. Below the cart, there are 'BUY NOW' and 'CANCEL' buttons. To the right, a 'TOTAL ORDER' section shows a subtotal of Tsh 230.00 and a total of Tsh 230.00. A 'PRESS ORDER' button is located below the search bar, and a 'PROCEED TO CHECKOUT' button is in the bottom right corner. The taskbar at the bottom of the screen shows various application icons.

3.2 Patient Registration

On this section, the system User can do registration of the patient as well ensuring the saving of information for a certain registered patient. Therefore, through this Patient registration functionality, some of recorded information such as Patient Names, phone number, tribe, area of residence, visit category, service name/ medication as well as amount to be paid by the patient towards a certain kind of service. It appears as follow;

>Login - GOTHOMIS | Watumishi Portal | Zoho Accounts | GitHub · Change is co | Speedtest by Ookla | e-Pharmacy Manager

Verify it's you

E-PHARMACY SYSTEM

HOME OUR STOCK PATIENTS DISPENSING STORE RECEIPT Logout ²

Home / Patient Registration

FirstName * MiddleName * LastName *

Sex Date of Birth *

Phone *

Tribe *

Region *

Type here to search

3:59 PM 11/18/2025

This screenshot shows the 'Patient Registration' form. It includes fields for FirstName, MiddleName, and LastName, each marked with a red asterisk indicating they are required. Below these are dropdown menus for Sex and Date of Birth, and a text input field for Phone. There are also fields for Tribe and Region. The browser's address bar shows the URL fmpiza.github.io/epharmacy/patient.html?.

Area of Residence *

Main Category▼

Service Category ▼

Service Name / Medication *

Price *

Visit Category▼

Insurance Patient

Non Insurance Patient

REGISTER REQUEST RECEIPT

Type here to search

4:00 PM 11/18/2025

This screenshot shows the continuation of the 'Patient Registration' form. It includes fields for Area of Residence, Main Category, Service Category, Service Name / Medication, Price, and Visit Category. Below these are two radio button options for Insurance Patient or Non Insurance Patient. At the bottom are two large teal buttons labeled 'REGISTER' and 'REQUEST RECEIPT'. The browser's address bar shows the URL fmpiza.github.io/epharmacy/patient.html?.

3.3 Store

On this section, the system user can view a certain balance of items available in the store. For example, Total available balance of Paracetamol is 24. Therefore, through this kind of functionality a system user can easily understand the statistical balance of items in the store or for further uses. It appears as follow;

The screenshot shows a web browser window with multiple tabs open at the top. The main content is the 'E-PHARMACY SYSTEM' store page. At the top, there are navigation links: HOME, OUR STOCK, PATIENTS, DISPENSING, STORE, RECEIPT, Logout, and a notifications icon with 2 notifications. Below the navigation, the URL in the address bar is fmpiza.github.io/epharmacy/shop.html?. The page title is 'Home / Store'. There are two filter sections: 'FILTER BY PRICE' with a slider from '\$75 - \$300' and 'FILTER BY REFERENCE' with a dropdown menu labeled 'REFERENCE'. Below the filters, three products are displayed:

- Bioderma**: A white bottle with a red cap and label.
- Chanca Piedra**: An orange glass bottle with a black dropper cap and label.
- Umcka Cold Care**: A blue and yellow box with a dropper.

The Windows taskbar at the bottom shows various pinned icons and the date/time: 4:02 PM, 11/18/2025.

Cetyl Pure
Tsh 20.00

CLA Core
Tsh 38.00

Poo Pourri
Tsh 38.00

< 1 2 3 4 5 >

E-PHARMACY SYSTEM
An Automated Electronic

PATIENT'S CATEGORIES
These are several categories of the patients who are well treated under the Electronic System which underlie on NHIF, Self Referral and Exemption based patients

e-PHARMACY MANAGEMENT SYSTEM

[\(Dispenser Account\) | Home](#)

Username
Password

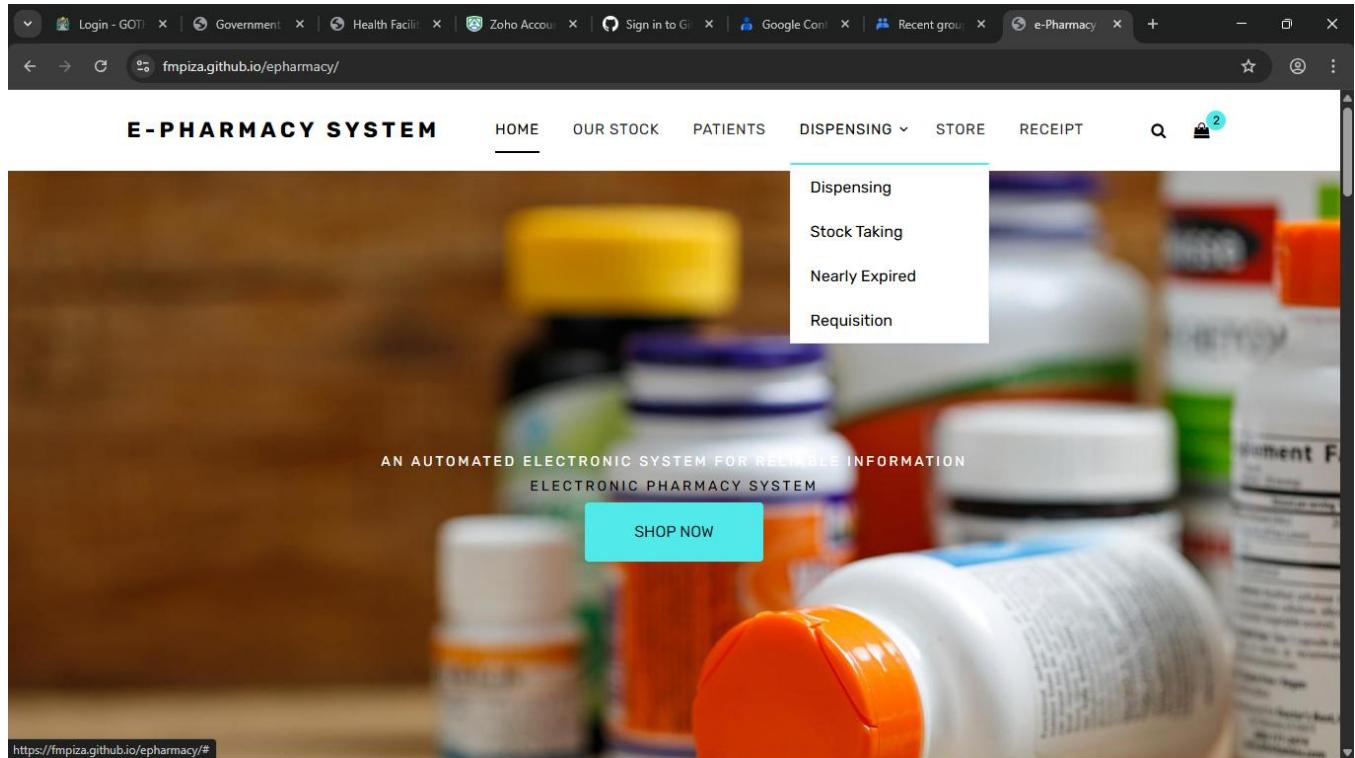
LOGIN

2025@ Developed by Fridolin



3.4 Dispensing

On this section, the system user can easily make / dispense medication according to the requirement of the patient. A system user can first sign in the account then filling the required details for dispensing. Such as Medical Record Number (MRN), Store Name, Number of Dose, Price of Medication/ Item. It appears as follow;



4.0 Dispensing

On this section, the system user can view the main system functionalities from the point of navigation section on the left-hand side of the system whereby he / she can choose on what kind of process he needs to interact with. It appears as follow;

Screenshot of the e-Pharmacy Management System interface showing the main dispensing screen.

SNo.	MEDICATION	STORE NAME	DOSE	PRICE	ACTION
	 Type a Medication..	<input type="button" value="Click to Select"/>	<input type="button" value="-"/> <input type="button" value="1"/> <input type="button" value="+"/>	Tsh 49.00	<input type="button" value="DISPENSE NOW"/>
	 Type a Medication..	<input type="button" value="Click to Select"/>	<input type="button" value="-"/> <input type="button" value="1"/> <input type="button" value="+"/>	Tsh 49.00	<input type="button" value="DISPENSE NOW"/>

Screenshot of the e-Pharmacy Management System interface showing the main dispensing screen with a total bill summary at the bottom.

 Type a Medication..	<input type="button" value="Click to Select"/>	<input type="button" value="-"/> <input type="button" value="1"/> <input type="button" value="+"/>	Tsh 49.00	<input type="button" value="DISPENSE NOW"/>
---	--	--	-----------	---

TOTAL BILL **TSH. 12000/=**

E-PHARMACY SYSTEM
An Automated Electronic Pharmacy Management System aimed at Medical pharmaceutical Services



PATIENT'S CATEGORIES
These are several categories of the patients who are well treated under the Electronic System which underlie on NHIF, Self Referral and Exemption based patients

4.1 Stock Taking

On this section, the system user can do stock taking in an easy mode of Stock taking from the Main Store. Therefore, a system user can follow a systematic / flow of algorithm on the whole process of Stock Taking from the main store in an easy way of conducting. It appears as follow;

The screenshot shows a web browser window with multiple tabs open at the top. The active tab is 'fmpiza.github.io/e-pharmacy/stocktaking.html?'. The page title is 'E-PHARMACY SYSTEM'. The navigation menu includes 'HOME' (which is underlined), 'OUR STOCK', 'PATIENTS', 'DISPENSING', 'STORE', 'RECEIPT', and 'Logout'. Below the menu, the URL 'fmpiza.github.io/e-pharmacy/stocktaking.html?' is visible. The main content area has a breadcrumb trail 'Home / Stock Balance'. Below this is a search form with four fields: 'STORE NAME' (dropdown menu 'Click to Select'), 'START DATE' (text input 'mm/dd/yyyy --:-- --'), 'END DATE' (text input 'mm/dd/yyyy --:-- --'), and an 'ACTION' button. A 'SEARCH' button is located to the right of the date inputs. At the bottom of the page, there is a teal-colored banner with the 'E-PHARMACY SYSTEM' logo and a small illustration of pills. To the right of the banner is a box titled 'PATIENT'S CATEGORIES' containing the text 'These are several categories of the patients who are well treated'. The bottom of the screen shows a Windows taskbar with various pinned icons and the date/time '4:04 PM 11/18/2025'.

Screenshot of a web browser showing the "e-Pharmacy System" Stock Balance page. The URL is fmpiza.github.io/epharmacy/stocktaking.html?

The page title is "E-PHARMACY SYSTEM". The navigation menu includes: HOME, OUR STOCK, PATIENTS, DISPENSING, STORE, RECEIPT, and Logout.

The current page is "Stock Balance".

A table is displayed with the following columns: STORE NAME, START DATE, END DATE, and ACTION.

In the STORE NAME column, a dropdown menu is open with the following options:

- Click to Select
- Click to Select
- Dispensing Store
- Outside Store
- Inside Store

Below the table is a blue button labeled "STOCK BALANCE".

The background features a teal header with the "E-PHARMACY SYSTEM" logo and a "PATIENT'S CATEGORIES" section below it.

The Windows taskbar at the bottom shows various application icons and the date/time: 4:05 PM 11/18/2025.

Screenshot of a web browser showing the "e-Pharmacy System" Stock Balance page. The URL is fmpiza.github.io/epharmacy/stocktaking.html?

The page title is "E-PHARMACY SYSTEM". The navigation menu includes: HOME, OUR STOCK, PATIENTS, DISPENSING, STORE, RECEIPT, and Logout.

The current page is "Stock Balance".

A table is displayed with the following columns: STORE NAME, START DATE, END DATE, and ACTION.

In the STORE NAME column, a dropdown menu is open with the following options:

- Click to Select
- Click to Select
- Dispensing Store
- Outside Store
- Inside Store

Below the table is a blue button labeled "STOCK BALANCE".

The background features a teal header with the "E-PHARMACY SYSTEM" logo and a "PATIENT'S CATEGORIES" section below it.

The Windows taskbar at the bottom shows various application icons and the date/time: 4:05 PM 11/18/2025.

The United Republic of Tanzania

General Stock Balance Report

SN	Item Name	Quantity
1	EXAMINATION GLOVES NITRIL DISPOSABLE-MEDIUM	268,680
2	OMEPRAZOLE 20MG CAPSULE	202,300
3	CALCIUM 500MG+ VITAMIN D 10MCG TABLETS	78,000
4	IV. GIVING SET	49,900
5	FERROUS SULPHATE 200MG + FOLIC ACID 0.25 MG TABLETS	46,800
6	MULTIVITAMIN TABLET	39,600
7	MISOPROSTOL 200MCG TABLETS	37,999
8	METRONIDAZOLE 200MG TABLETS	29,075
9	FOLIC ACID 5MG TABLETS	25,200
10	METRONIDAZOLE 200MG TABLETS	23,800
11	ACETYLSALICYLIC ACID (ENTERIC COATED) 75MG TABLETS	20,180
12	ISOFLURANE INHALATION 250ML BOTTLE	17,021
13	MEBENDAZOLE 100MG TABLETS	16,500
14	TENOFOVIR DISOPROXIL FUMARATE 300MG+LAMIVUDINE 300MG+DOLUTegravir 50MG	15,000
15	IBUPROFEN 200MG TABLETS	13,000
16	CO-TRIMOXAZOLE 480MG TABLETS	11,700
17	GLOVES SURGICAL LATEX RUBBER STERILE SIZE 7.5	10,798
18	FLUCLOXACELLIN 250MG+ AMOXICILLIN 250MG CAPSULES	10,612
19	CEFTRIAXONE 1G POWDER FOR INJECTION	10,276
20	DISPENSING ENVELOPS PAPER TYPE	10,000
21	SYRINGE AUTO-DISABLE 3CC WITH NEEDLE	9,995
22	AMPICILLIN 250MG+ CLOXACELLIN 250MG CAPSULES	9,500
23	AUTODISABLE DISPOSABLE SYRINGE 3CC	9,495
24	AMOXICILLIN 250MG CAPSULES	9,067

4.2 Nearly Expired

On this section, the system user can view all nearly expired Medications/ items from the Main Store. Therefore, through this functionality, a system user can easily determine a Gap or where there is a deficit in the number of available medications / items. It appears as follow;

E-PHARMACY SYSTEM

HOME OUR STOCK PATIENTS DISPENSING STORE RECEIPT Logout

Home / Nearby Expire

STORE NAME	START EXPIRE	END EXPIRE	ACTION
<input type="button" value="Click to Select"/>	<input type="text" value="mm/dd/yyyy --::--"/> <input type="button" value=""/>	<input type="text" value="mm/dd/yyyy --::--"/> <input type="button" value=""/>	<input type="button" value="SEARCH"/>

PATIENT'S CATEGORIES
These are several categories of the patients who are well treated

The screenshot shows a web browser window with multiple tabs open. The active tab is titled 'fmfpiza.github.io/epharmacy/nearby.html?'. The page header reads 'E-PHARMACY SYSTEM' with a 'HOME' menu item underlined. Below the header, a breadcrumb navigation shows 'Home / Nearby Expire'. The main content area features a search form with four fields: 'STORE NAME' (dropdown menu 'Click to Select'), 'START EXPIRE' (date input field 'mm/dd/yyyy --::--'), 'END EXPIRE' (date input field 'mm/dd/yyyy --::--'), and an 'ACTION' button ('SEARCH').

4.3 Requisition

On this section, the system user can do Item / Medications requisition from the Main Store. Therefore, through this functionality a system user can easily determine items which need to be requested from the store. It appears as follow;

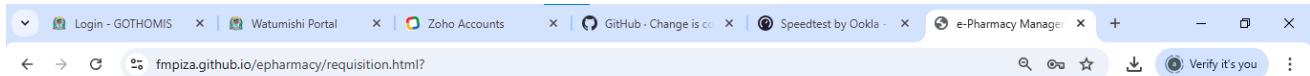


E-PHARMACY SYSTEM

HOME OUR STOCK PATIENTS DISPENSING STORE RECEIPT Logout

Home / Requisition/ Issuing

REQUESTED FROM	REQUESTING TO	REQUESTING TYPE	ACTION
<input type="button" value="Click to Select"/>	<input type="button" value="Click to Select"/>	<input type="button" value="Click to Select"/>	<input type="button" value="CREATE"/>

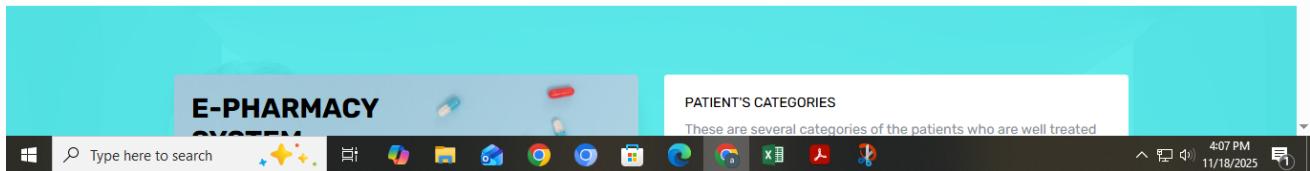


E-PHARMACY SYSTEM

HOME OUR STOCK PATIENTS DISPENSING STORE RECEIPT Logout

Home / Requisition/ Issuing

REQUESTED FROM	REQUESTING TO	REQUESTING TYPE	ACTION
<input type="button" value="Click to Select"/>	<input type="button" value="Click to Select"/>	<input type="button" value="Click to Select"/> <input type="button" value="Click to Select"/> Internal Outside	<input type="button" value="CREATE"/>



5.0 CUSTOMER SUPPORT AND MAINTENANCE

On this section, the system user can interact with the functionality of Customer Support and maintenance on the system whereby he/ she can click on the red colored button named “**Support**” to get an instant support from the person who is responsible for Customer Support. It appears as follow;

6.0 MAINTENANCE

On this section, a system user can get a periodic technical updates and maintenance of the system for the best targeted improvements and system great performance depend on the required aims of the system owner in cooperation to the technical developer.