



USING THE MEDICAL WEB APPLICATION

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Building the Application

The web application is written using HTML, PHP, MYSQL, JAVA, CSS and Bootstrap. It is best accessed on web browsers such as Firefox, Internet Explorer, Chrome and Safari Browsers. It could be accessed on any device including desktop systems, laptops, mobile phones and tablets because of its responsiveness.

It consists of all the necessary scripts required to interact with the hospital intranet server and also, the SQL script to build the database.

What each page comprises

The home (first/front) page of the web application is the login page. It has no registration link, so nobody can register as a worker in any unit, without the authorization of a supervisor. In other words, it is not a personal registration platform, which makes it easier for data to be altered, only on procedural grounds.

The login is sectioned into five units, where every member of the hospital that will have access to the application is categorized.

The categories are:

1. The Admin.
2. The Doctor.
3. The Laboratory.
4. The Pharmacy.
5. The Supervisor.

Each of the aforementioned categories, have their respective login effect on the web application, regarding what they can or cannot access when they are logged in. This simply means, a doctor for instance, will be able to access some information on his login page, that the others may not have access to and also, make some changes that the others can't.

After logging in, each page of the web application is divided into four, which are:

1. Navigation bar header
2. Navigation bar footer
3. Sidebar
4. Full Page

The Navigation bar header;

This has the Name of the Hospital, the sign out button and also the welcome address for each user.

The Navigation bar footer;

This has the copyright of the hospital and also, the name of the web application designer.

The side bar and the full page differs in display for each of the categories mentioned above.

For The Admin Category (APPENIX B)

Sidebar

- Add New patient (New patient's bio-data can be uploaded on the system).
- A search for patient by ID.
- A list of patients waiting to see the doctor.
- A list of patients on admission.

Full Page

- Patient's Bio-data.
- Doctor's report.
- Tests for patient.
- Drugs for patient.
- Admission Status.

On the full page, the Admin is allowed to;

1. Add patients to doctor's waiting list.
2. Place patients on admission.

For The Doctor's Category (APPENIX D)

Sidebar

- A search for patient by ID.
- A list of patients waiting to see the doctor.

Full Page;

- Patient's Bio-data.
- Doctor's report.
- Tests for patient.
- Drugs for patient.
- Admission Status.

On the full page, the doctor is allowed to;

1. Add new reports.
2. Add new tests to run.
3. Add new drugs.

For the Laboratory Category (APPENIX E)

Sidebar

- A search for patient by ID.
- A list of patients waiting for lab tests.

Full Page;

- Patient's Bio-data.
- Tests for patient.

On the full page, the lab scientist is allowed to;

1. Add the result of the tests conducted.

For The Pharmacy Category (APPENIX H)

Sidebar

- A search for patient by ID.

- A list of patients waiting for prescriptions.

Full Page

- Patient's Bio-data.
- Drugs for a patient.

On the full page, the pharmacist is allowed to;

1. Click 'Answered' to patient's drugs.

For The Supervisor's Category (APPENDIX L)

Sidebar

- A search for patient by ID.
- Add new Staff.
- Add new patients.

Full Page

- Patient's Bio-data.
- Doctor's report.
- Tests for patient.
- Drugs for patients.
- Admission Status.

An Illustration of the working progress of the web application on a new patient (Patient A).

Patient A visits the admin or front desk where his/her Bio-data is being uploaded into the system (Appendix A), after which the admin will access the patient's page by searching with the new ID given to the patient. On the page, the Admin will add the patient to the doctor's waiting list (Appendix B).

At the doctor's desk, Patient A's name appears on the sidebar (Appendix C), the doctor then clicks on the name, and the whole information of patient A, will appear on the full page. During or after questioning and examination, the doctor can then add report and tests on Patient A's full page and send Patient A to the Laboratory for the tests, then he goes down patient A's page and click "done with patient" to remove him/her from the waiting list (Appendix D).

Getting to the lab, Patient A will appear on the sidebar for test, then the lab scientist will click on the name to display patient A's bio-data and tests to be done(Appendix E), the scientist will carry out the test and record the result on the patient's page (Appendix F).

Patient A then returns to the Doctor, either via the Admin or directly, in which the doctor can just search the patient's info using his ID. The doctor views the lab result and make his report if necessary. Then, he moves to drug section and add drugs for patient, if necessary as well (Appendix G).

Patient A proceeds to the pharmacy who already have patient A's ID on his sidebar just immediately the doctor added drug on his page. The pharmacist then views patient A's page and see the drug not yet prescribed, he makes prescription and informs Patient A the drugs that are unavailable in the pharmacy(Appendix H). If the patient needs to source the drugs externally, he clicks 'Answered' so as to remove patient A from the drug waiting list (Appendix I).

In case the Doctor decides to admit patient A, the patient proceeds to the Admin (Appendix J), who will access his page and indicate 'on admission' till the doctor decides to discharge the patient. When Patient A is discharged, the admin will have to check his profile and discharge him so as to remove patient A from the list of admitted patients (Appendix K).

All information and processes that patient A went through in the clinic, are permanently documented on the server and can be accessed anytime.

APPENDIXES

Appendix A

NEW PATIENT FORM

localhost / 127.0.0.1 / mrs... | Inbox (3,898) - trillzglobal... | 127.0.0.1/mrs32atbr/dashboard/new_patient.php

32 ATILLERY BRIGADE MEDICAL CENTER

Sign Out

Add New Patient

XXXX

Search by Patient ID

Waiting List ID

On Admission ID

New Registration for Patient

Error: Every patient Must have unique ID

Upload Passport Photo

Browse... No file selected.

Surname

Enter Surname

First Name

Enter First Name

Other Name

Enter Other Names

AGE:

Enter Age: DD:MM:YYYY

Patient ID

Enter Patient ID: XXXXX/XXXX

Phone No

Enter Phone No

Tribe

Tribe

Religion

Enter religion

Gender

Male

Marital Status

Single

Army NO

Army No

Rank

Enter Occupation

Unit

Enter Unit

Activate Windows
Go to Settings to activate Windows.

Type here to search

10:22 AM
18-Sep-18

Appendix B

MEDICAL CENTER

localhost / 127.0.0.1 / mrs... | Inbox (3,898) - trillzglobal... | 127.0.0.1/mrs32atbr/dashboard/home_admin.php

32 ATILLERY BRIGADE MEDICAL CENTER

Welcome trillzglobal Sign Out

DOCTOR'S REPORT

Date	Report	Doctor
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DRUGS FOR PATIENT

Date	Drug
------	------

TEST ON PATIENT

Date	Test	Result
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ADMISSION STATUS

Date Admitted	Discharge Status	Discharged date
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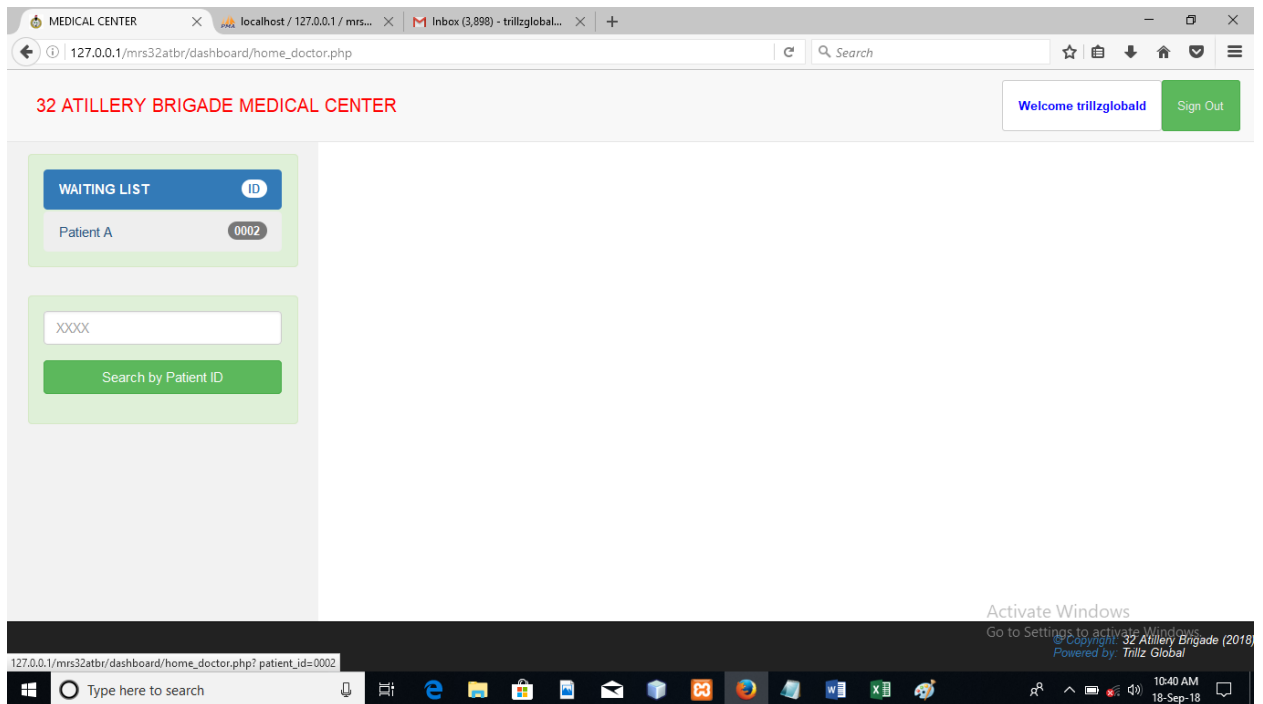
Admit Patient Send to Doctor

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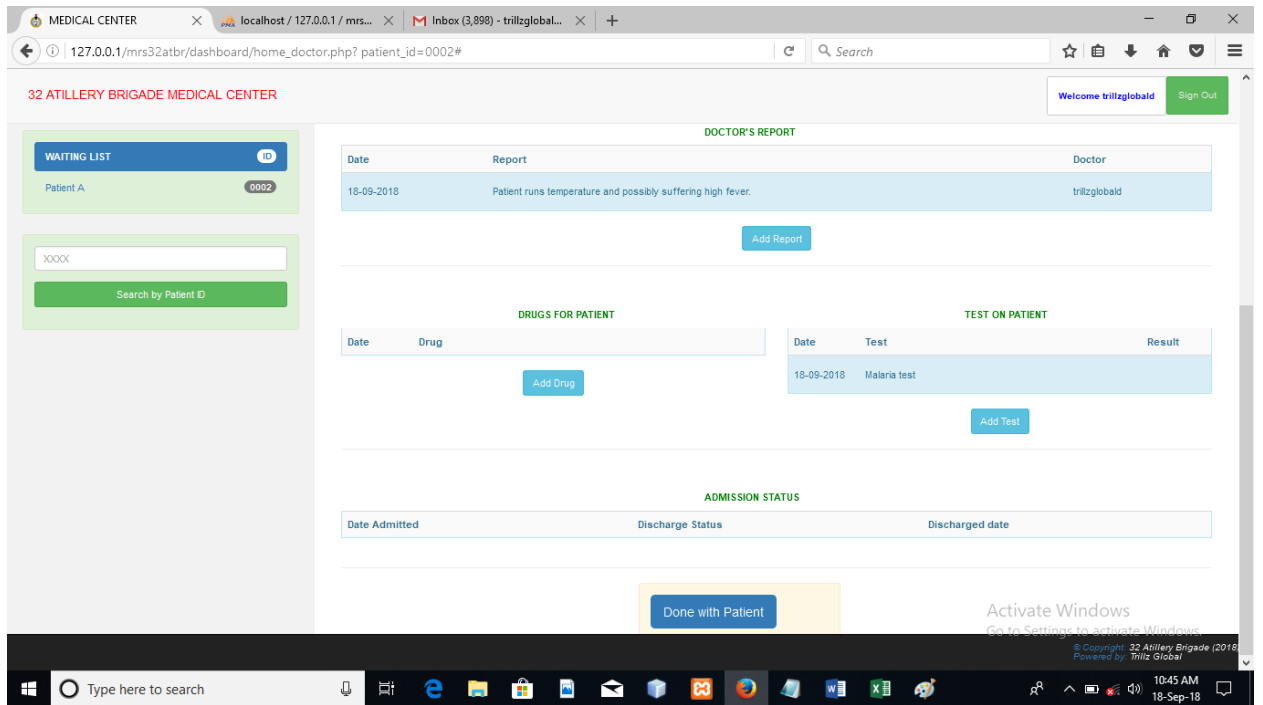
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10:38 AM
18-Sep-18

Appendix C



Appendix D



Appendix E

MEDICAL CENTER | localhost / 127.0.0.1 / mrs... | Inbox (3,898) - trillzglobal... | 127.0.0.1/mrs32atbr/dashboard/home_lab.php?patient_id=0002

32 ATTILERY BRIGADE MEDICAL CENTER


Welcome trillzglobal | Sign Out

XXXX

Search by Patient ID

Laboratory Test ID

Patient A 0002



Patient , A

DATE OF BIRTH: 17-04-1980
ADDRESS: Main Street, Major lane, Ikeja, Lagos
PATIENT ID: 0002
NHIS CARD: NHIS/274/001

SEX: Male
STATE OF ORIGIN: Lagos
ARMY NO:

MARITAL STATUS: Single
PHONE NO: 0903287812
TRIBE: Hausa
RANK:

RELIGION: Muslim
OCCUPATION: Teacher
BLOOD GROUP: o-
UNIT:

TEST ON PATIENT

Date	Test	Result
18-09-2018	Malaria test	Result

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10:53 AM
18-Sep-18

Appendix F

MEDICAL CENTER | localhost / 127.0.0.1 / mrs... | Inbox (3,898) - trillzglobal... | 127.0.0.1/mrs32atbr/dashboard/home_lab.php?patient_id=0002#


32 ATTILERY BRIGADE MEDICAL CENTER

Welcome trillzglobal | Sign Out

XXXX

Search by Patient ID

Laboratory Test ID



Patient , A

DATE OF BIRTH: 17-04-1980
ADDRESS: Main Street, Major lane, Ikeja, Lagos
PATIENT ID: 0002
NHIS CARD: NHIS/274/001

SEX: Male
STATE OF ORIGIN: Lagos
ARMY NO:

MARITAL STATUS: Single
PHONE NO: 0903287812
TRIBE: Hausa
RANK:

RELIGION: Muslim
OCCUPATION: Teacher
BLOOD GROUP: o-
UNIT:

Success: Test Result Submitted

TEST ON PATIENT

Date	Test	Result
18-09-2018	Malaria test	Specimen: Blood Result: Positive

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10:55 AM
18-Sep-18

Appendix G

MEDICAL CENTER | localhost / 127.0.0.1 / mrs... | Inbox (3,898) - trillzglobal... | 127.0.0.1/mrs32atbr/dashboard/home_doctor.php? patient_id=0002#

32 ATTILERY BRIGADE MEDICAL CENTER | Welcome trillzglobal | Sign Out

WAITING LIST ID

Patient A 0002

XXXX

Search by Patient ID

DOCTOR'S REPORT

Date	Report	Doctor
18-09-2018	Patient runs temperature and possibly suffering high fever.	trillzglobald

Add Report

DRUGS FOR PATIENT

Date	Drug
18-09-2018	PCM 3/7, B.Complex 2/5,

Add Drug

TEST ON PATIENT

Date	Test	Result
18-09-2018	Malaria test	

Add Test

ADMISSION STATUS

Date Admitted	Discharge Status	Discharged date
---------------	------------------	-----------------

Done with Patient

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Appendix H

MEDICAL CENTER | localhost / 127.0.0.1 / mrs... | Inbox (3,898) - trillzglobal... | 127.0.0.1/mrs32atbr/dashboard/home_pharmacy.php?patient_id=0002


32 ATTILERY BRIGADE MEDICAL CENTER | Welcome trillzglobal | Sign Out

XXXX

Search by Patient ID

Patients Prescription ID

Patient A 0002


Patient , A

DATE OF BIRTH: 17-04-1980
ADDRESS: Main Street, Major lane, Ikeja, Lagos
PATIENT ID: 0002
NHIS CARD: NHIS/274/001

SEX: Male
STATE OF ORIGIN: Lagos
ARMY NO:

MARITAL STATUS: Single
PHONE NO: 0903287812
TRIBE: Hausa
RANK:

RELIGION: Muslim
OCCUPATION: Teacher
BLOOD GROUP: o-
UNIT:

DRUGS FOR PATIENT

Date	Drug	Answered
18-09-2018	PCM 3/7, B.Complex 2/5,	Answered

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Type here to search | 10:57 AM 18-Sep-18

Appendix I


MEDICAL CENTER | localhost / 127.0.0.1 / mrs... | Inbox (3,898) - trillzglobal... | 127.0.0.1/mrs32atbr/dashboard/home_pharmacy.php?patient_id=0002#

32 ATTILERY BRIGADE MEDICAL CENTER

Welcome trillzglobalp | Sign Out

XXXX
Search by Patient ID

Patients Prescription ID


Patient , A

DATE OF BIRTH: 17-04-1980
ADDRESS: Main Street, Major lane, Ikeja, Lagos
PATIENT ID: 0002
NHIS CARD: NHIS/274/001

SEX: Male
STATE OF ORIGIN: Lagos
ARMY NO:

MARITAL STATUS: Single
PHONE NO: 0903287812
TRIBE: Hausa
RANK:

RELIGION: Muslim
OCCUPATION: Teacher
BLOOD GROUP: o-
UNIT:

Success: Drug Prescribed

DRUGS FOR PATIENT

Date	Drug	Answered
18-09-2018	PCM 3/7, B Complex 2/5,	Answered

Activate Windows
Go to Settings to activate Windows.

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10:57 AM
18-Sep-18

Appendix J

MEDICAL CENTER | localhost / 127.0.0.1 / mrs... | Inbox (3,898) - trillzglobal... | 127.0.0.1/mrs32atbr/dashboard/home_admin.php?patient_id=0002

32 ATTILERY BRIGADE MEDICAL CENTER

Welcome trillzglobala | Sign Out

Add New Patient

XXXX
Search by Patient ID

Waiting List ID

On Admission ID

Patient A 0002

DOCTOR'S REPORT

Date	Report	Doctor
18-09-2018	Patient runs temperature and possibly suffering high fever.	trillzglobald

DRUGS FOR PATIENT

Date	Drug
18-09-2018	PCM 3/7, B Complex 2/5,

TEST ON PATIENT

Date	Test	Result
18-09-2018	Malaria test	Specimen: Blood Result: Positive

ADMISSION STATUS

Date Admitted	Discharge Status	Discharged date
18-09-2018	Discharge	

Admit Patient | Send to Doctor

Activate Windows
Go to Settings to activate Windows.

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Type here to search

11:00 AM
18-Sep-18

Appendix K

The screenshot displays the '32 ATILLERY BRIGADE MEDICAL CENTER' dashboard. The left sidebar contains buttons for 'Add New Patient', 'Search by Patient ID' (with a text input 'XXXX'), 'Waiting List' (with an 'ID' button), and 'On Admission' (with an 'ID' button). The main content area features four tables:

- DOCTOR'S REPORT**:

Date	Report	Doctor
18-09-2018	Patient runs temperature and possibly suffering high fever.	trilzglobald
- DRUGS FOR PATIENT**:

Date	Drug
18-09-2018	PCM 3/7, B Complex 2/5,
- TEST ON PATIENT**:

Date	Test	Result
18-09-2018	Malaria test	Specimen: Blood Result: Positive
- ADMISSION STATUS**:

Date Admitted	Discharge Status	Discharged date
18-09-2018	Discharged	18-09-2018

At the bottom of the main content area are two buttons: 'Admit Patient' and 'Send to Doctor'. The Windows taskbar at the bottom shows the time as 11:01 AM on 18-Sep-18.

Appendix L

The screenshot displays the '32 ATILLERY BRIGADE MEDICAL CENTER' dashboard with the 'NEW STAFF FORM' active. The left sidebar contains buttons for 'Search by Patient ID' (with a text input 'XXXX'), 'Create New Staff', and 'Add New Patient'. The main content area features a 'New Staff Registration' form with a red error message: 'Error: A Username is Needed and Password is Needed'. The form fields are:

- Unit**: Dropdown menu with 'Doctor' selected.
- Surname**: Text input with placeholder 'Enter Surname'.
- Other Names**: Text input with placeholder 'Enter Other Names'.
- Gender**: Dropdown menu with 'Male' selected.
- User Name**: Text input with placeholder 'Username'.
- Password**: Text input with placeholder 'XXXXXXXXXX'.
- Specialization(ctors):**: Text input with placeholder 'Doctors Specialization'.
- Email**: Text input with placeholder 'Email address'.
- Address**: Text input (partially visible).

The Windows taskbar at the bottom shows the time as 11:03 AM on 18-Sep-18.