

Brain Health Initiative Project

Group 1.1

Milestone 4 Report

Requirements ->

Module 1 : Doctor Module

Roles :

Sr#	Role	Role Description
1	MO (Medical Officer)	Medical Officer at Primary Health Care Center
2	SS (Specialist)	Secondary Health Centers - Specialist
3	TS (Specialist)	Tertiary Health Centers - Specialist

Requirements:

Sl#	Use Case	Use Case Description	Roles
UC-1	Login to the app	Login of Medical Officer/Specialist to the app	MO,SS,T S
UC-2	Search Existing Patient	Search for a patient based on id/phone number	MO,SS,T S
UC-3	Add new patient	Option to add new patient	MO,SS,T S
UC-4	View patient records	See previous patient records of existing patients	MO,SS,T S
UC-5	Questionnaire	Auto-populated diagnosis and guidance based on questionnaire	MO,SS,T S
UC-6	Add Consultation Details and Referral	Doctor or Specialist can add consultation records for a patient with an option to refer	MO,SS,T S
UC-7	View records solved by doctor	View/edit records created by the Doctor/Specialist	MO,SS,T S
UC-8	View list of referred patients	Referred patients should be viewable by Specialists at Secondary or Tertiary Healthcare centers	SS,TS

Module 2 : Admin Module

Roles :

Sr#	Role	Role Description
1	Admin	Program Manager

Requirements:

SI#	Use Case	Use Case Description	Roles
UC-1	Login to Admin module	Login of Admin to the App	Admin
UC-2	Add a new Organisation/Doctor	Add an organization and its associated doctors/specialists	Admin
UC-3	Doctor statistics	Dashboard with statistics based on Doctors	Admin
UC-4	Patients statistics	Dashboard with statistics based on Patients	Admin
UC-5	Program statistics	Dashboard with statistics based on app usage like questionnaire usage and referral usage	Admin

Non Functional Requirements:

SI#	Requirement description	Status
NFR-1	Password encryption	Completed
NFR-2	Responsive design to be viewable on variety of screens	Partially Completed
NFR-3	Security (Preventing MySQL injections)	Completed
NFR-4	Data Encryption	Not done

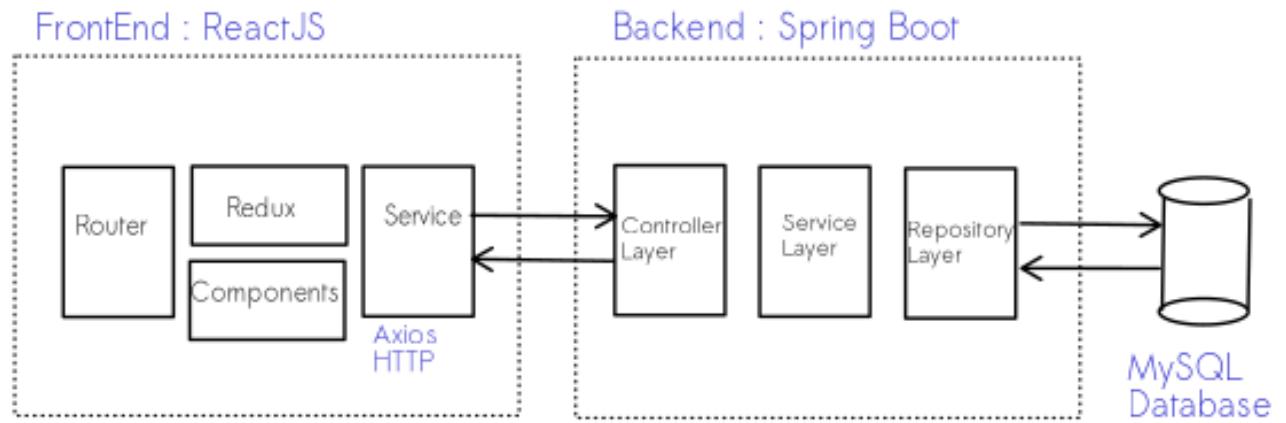
Use Cases ->

Req#	Requirement description	Status
UC-1	Use Case - Login to Clinical module	Completed
1.1	Login by Doctor into OP System – User Id, Password, Hospital	
1.2	Change password with existing password.	
1.3	User handholding if UserId/Password combination incorrect	
UC-2	Use Case - Search Existing Patient	Completed
2.1	Search Patient – by user id / phone number.	
2.2	If Patient record exists, it should show the result in the table.If it does not exist, “No records found” message should appear on screen	
UC-3	Use Case - Add New Patient	Completed
3.1	If Patient record does not exist in the system, should be able to add new patient	
3.2	Patient details- Name, Patient Id, Age/DOB, Gender, Education, Occupation, Languages Socioeconomic Status, Address, Telephone Number, Informant Caregiver Name, Relationship with Patient, blood group	
3.3	Field restrictions like Phone number of 10 digits etc.	
3.4	Date of birth input using calendar	
UC-4	Use case - View patients record	Completed
4.1	Display list of patient records of the existing patient	
4.2	Doctor can view the record given consent	For now this is a verbal consent and doctor has to tick a radio button
4.3	Doctor needs to tick the checkbox to access the records.	
UC-5	Use case- Questionnaire	Completed
5.1	Able to access the basic questionnaire	
5.2	Based on the first level questionnaire results the next questionnaire must be chosen automatically by given protocol	

5.3	Once the questionnaires are filled, the doctor will be notified of the probable diagnosis according to the protocol	
5.4	Doctor will be provided with an option to populate the consultation form with result of questionnaire	
UC-6 Use Case - Add Consultation Details		Completed
6.1	Create a new medical record option should be available for doctor	
6.2	Enter Clinical Profile - field Chief Complaint	
6.3	Enter Clinical Profile – field History (free text)	
6.4	Enter Clinical Profile – field Illness Summary (free text)	
6.5	Enter Diagnosis Details – field Diagnosis Type (Differential, Provisional, Tentative, Final)	
6.6	Enter Diagnosis Details – field ICD 10 Code and/or ICD description	
6.7	Enter Diagnosis Details – field Description auto populated with value selected above	
6.8	Enter Diagnosis Details – field Diagnosis Type (Differential, Provisional, Tentative, Final)	
6.9	Enter Treatment Plan – field Additional Notes	
6.10	Enter Treatment Plan – field Follow up Date	
6.11	Send Referral to Secondary/Tertiary Specialists	
6.12	Clicking on Save. Should be made available once all the mandatory fields are filled	
6.13	Clicking on Print. Should be made available after Save is clicked.	
UC-7 Use case - View records solved by doctor		Partially Completed
7.1	Doctor should be able view all the consultation forms he submitted	
7.2	Doctor should be able edit the consultation forms he submitted	Not done
UC-8 Use case- able to view list of referred patients		Completed
8.1	List of all the patients referred will be shown to the specialists	Only available to specialists
8.2	The referral will have information of the patient and the doctor who referred with status showing whether the case is taken	
8.3	A specialist can take up the case and the referral will be marked taken	

Req#	Requirement description	Remarks
UC-1	Use Case - Login to Admin module	Completed
1.1	Login into System – User Id, Password	
1.2	User handholding if UserId/Password combination incorrect	
UC-2	Use Case - Add a new Organisation/Doctor in the database	Completed
2.1	Create a new hospital	
2.2	Add doctor/specialist's details to a hospital list and create an account	
UC-3	Use Case - Doctor statistics	Completed
3.1	Should be able to view the count of doctors in a district / hospital	
3.2	Distribution of particular specialists doctors across districts, list on demand	
3.3	Both tabular/graphical will be available	
UC-4	Use Case - Patient statistics	Completed
4.1	Should be able to see patient frequency based on demography/geographical location/hospital	
4.2	View the frequency of disease(ICD 10 code)	
4.3	Both tabular/graphical will be available	
UC-5	Use Case - Program statistics	Completed
4.1	Should be able to see frequency of questionnaire used	
4.2	View frequency of referrals	
4.3	View frequency of referral responses	
4.4	Both tabular/graphical will be available	

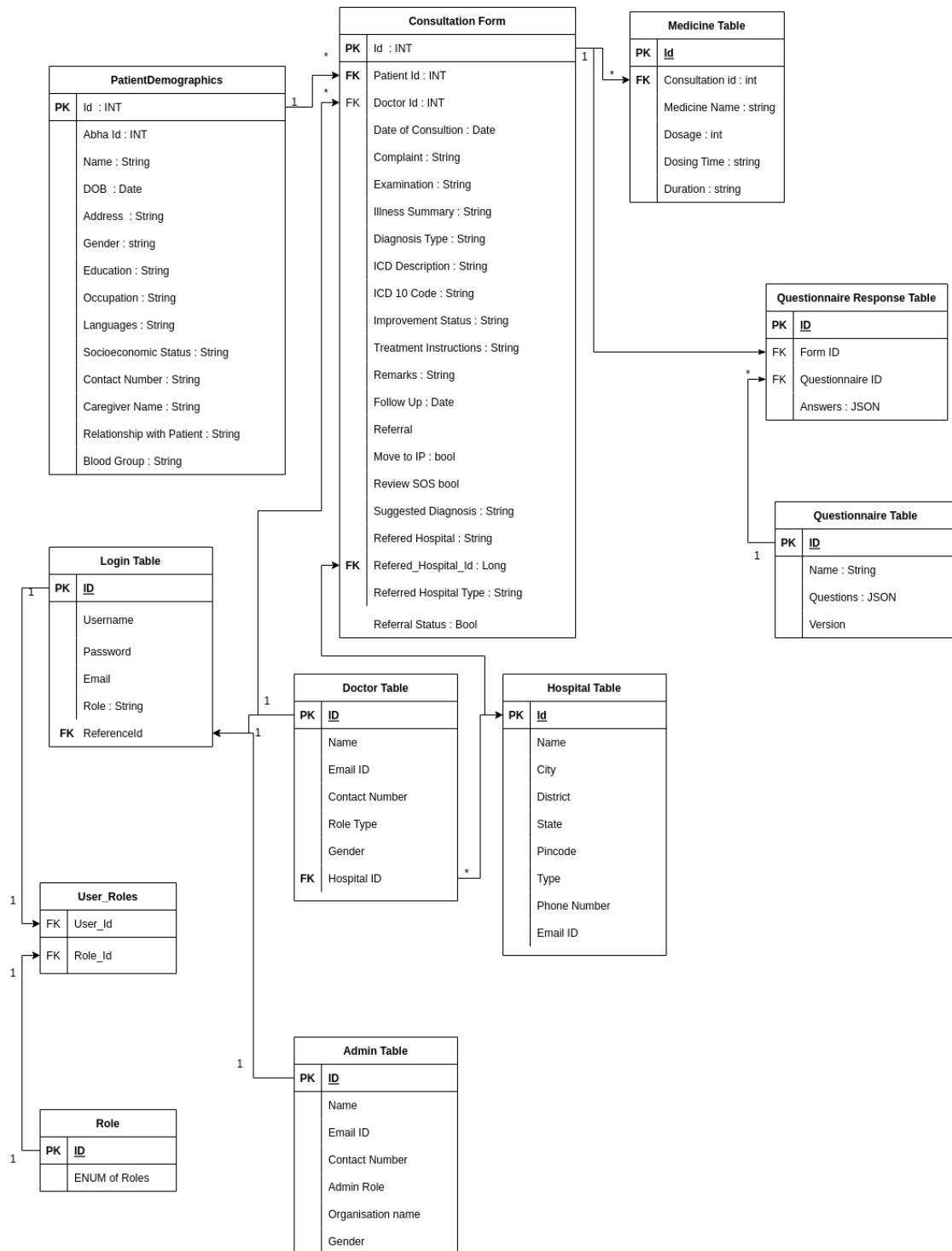
Architecture Diagram:



Frameworks libraries used:

- React
- Redux
- Axios
- Material UI
- Spring Boot
- Spring Security
- Hibernate
- Bcrypt

Database diagram :

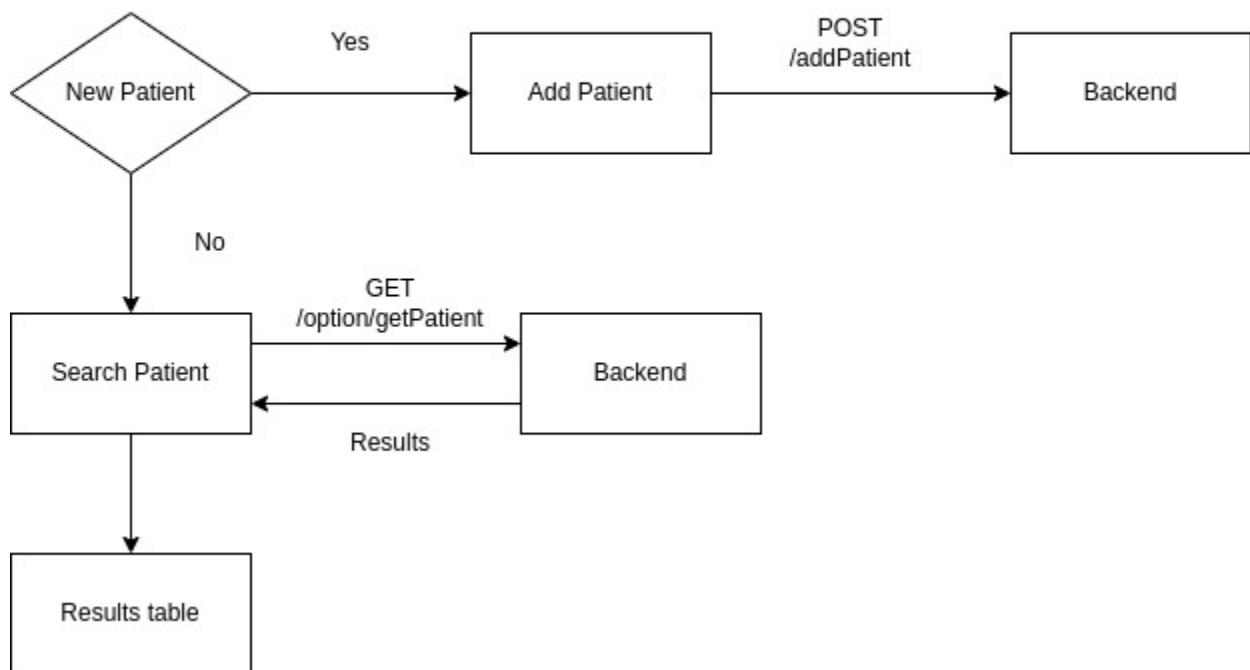


Flow Diagrams :

Patient Registration - Fields

- First Name, Last Name
- Patient ABHA Id
- DOB
- Gender
- Education
- Occupation
- Languages
- Socioeconomic Status
- Address
- Phone Number
- Informant Caregiver Name
- Relationship with Patient

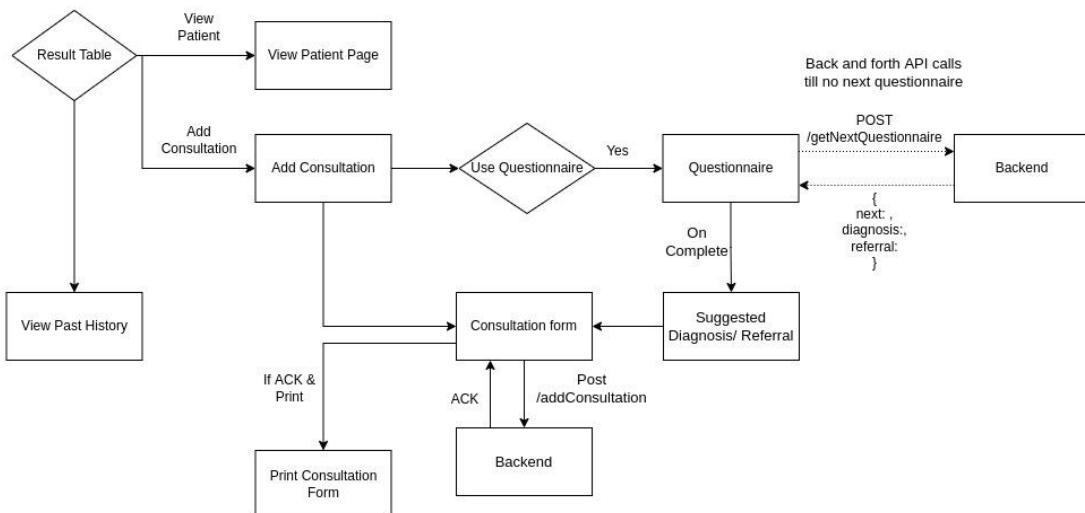
Patient Registration



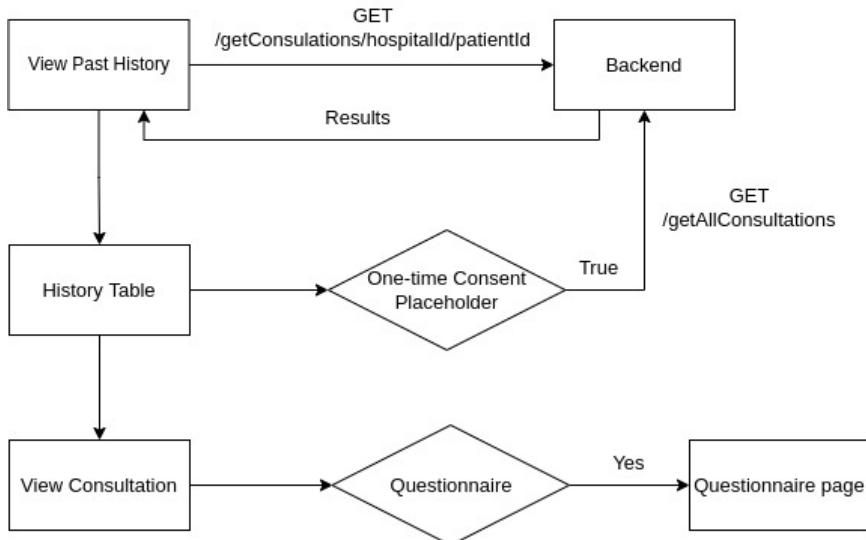
Consultation Form - Fields

- Complaint
- Examination
- Illness Summary
- Diagnosis
 - Diagnosis Type (Differential, Provisional, Tentative, Final)
 - ICD Description
 - ICD 10 Code
- Treatment Plan
 - Improvement Status (Condition Improved, Condition Worsened, Condition unchanged)
 - Medicine(s)
 - Medicine Name, Dosage, Dosing Time, Duration
 - Treatment Instructions
 - Remarks
- Follow-up Recommendations
 - Follow-up date
 - Referral
 - Referred Hospital Type
 - Referred Hospital Name
 - Move to IP
 - Review SOS

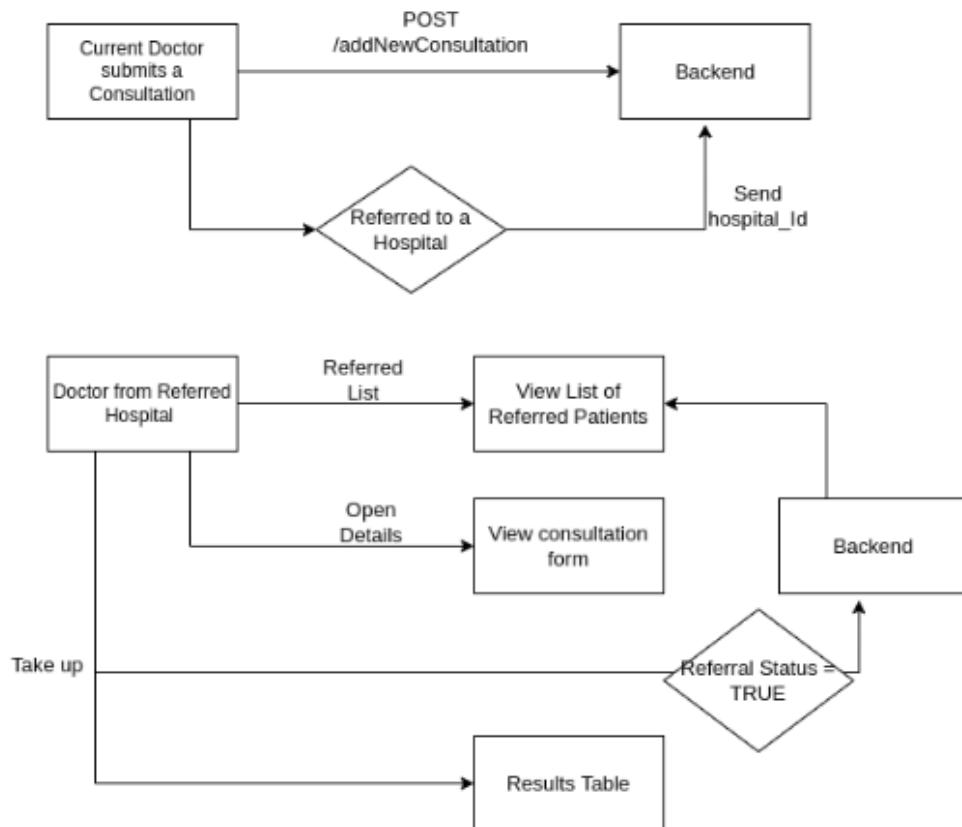
Consultation Module



View Past History Module



Referral Module

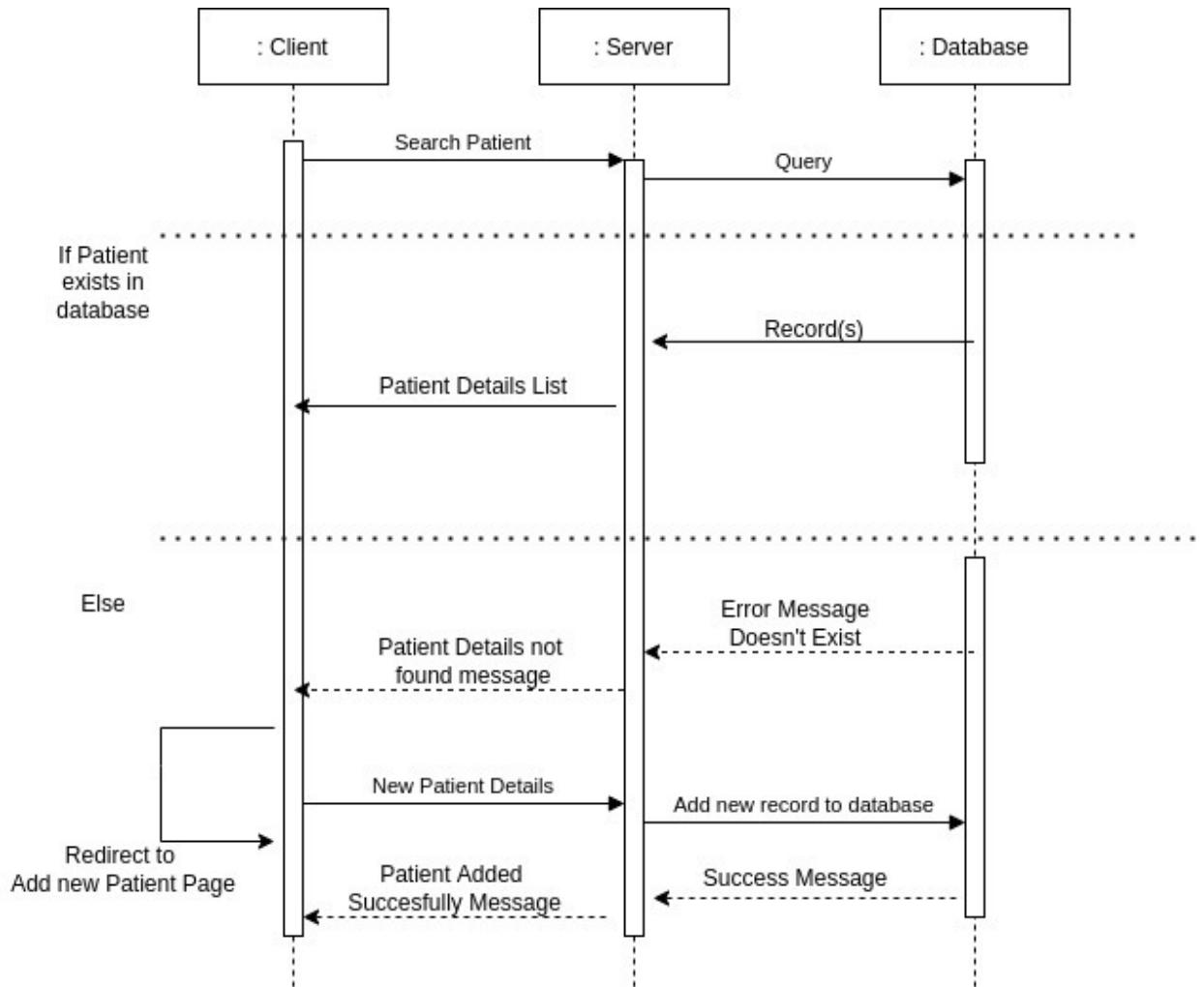


Questionnaire JSON Structure:

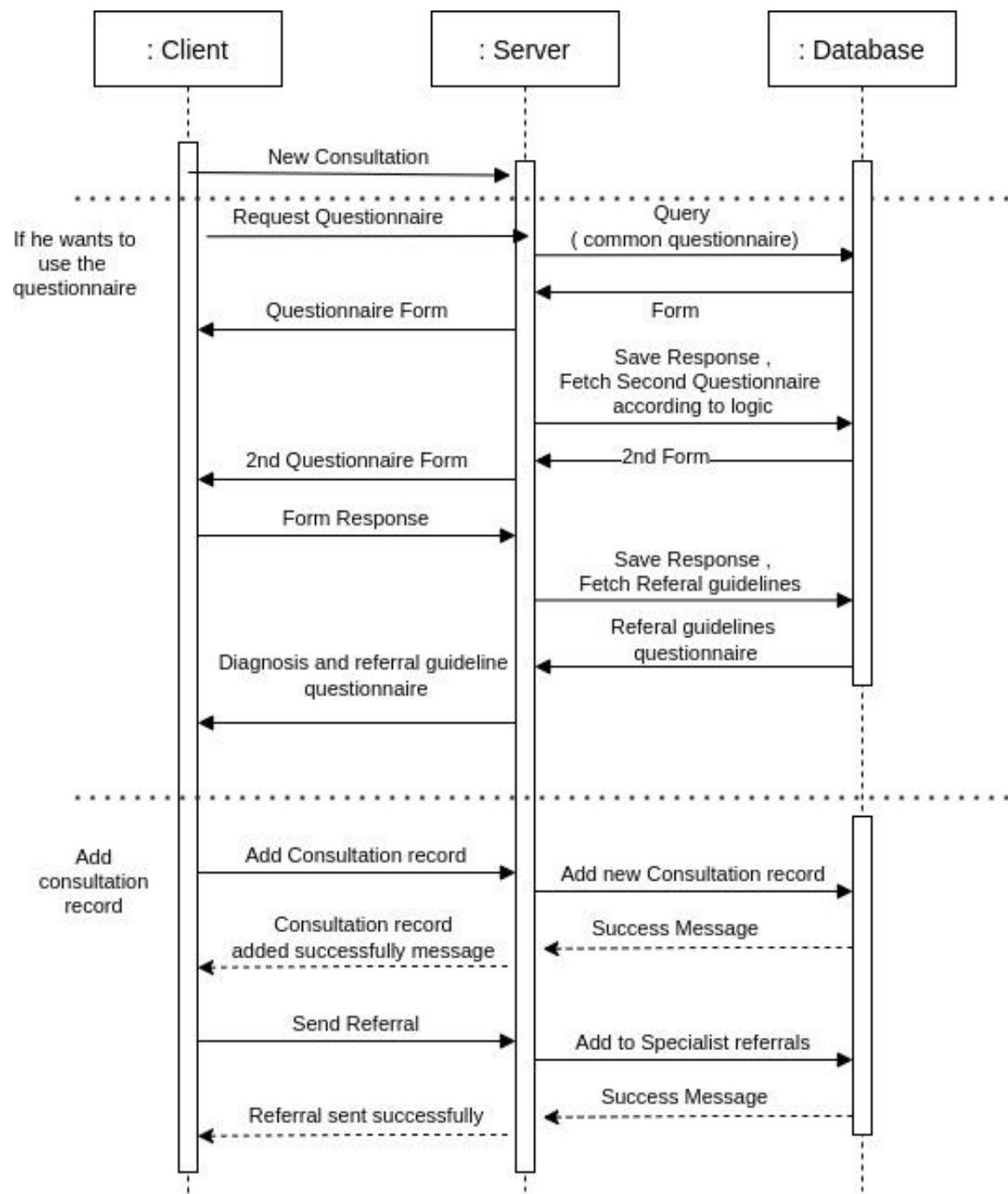
```
{  
  "id": 0,  
  "name": "string",  
  "questions": {  
    "Q1": {  
      "options": [  
        "string"  
      ],  
      "question": "string"  
    },  
    "Q2": {  
      "options": [  
        "string"  
      ],  
      "question": "string"  
    },  
    "Q3": {  
      "options": [  
        "string"  
      ],  
      "question": "string"  
    }  
  "version": "string"  
}
```

Sequence diagrams :

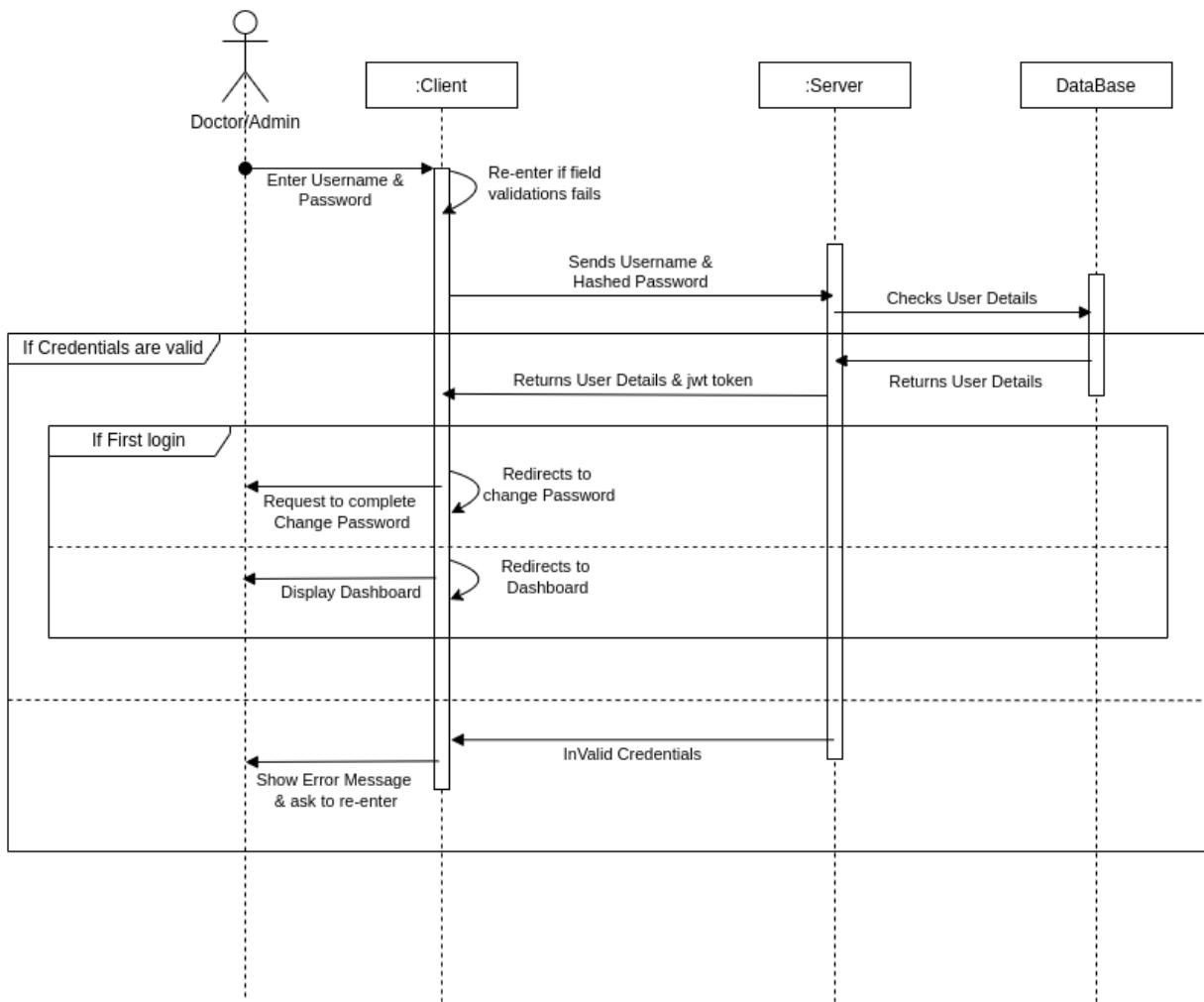
1. Searching and Registering new Patients :



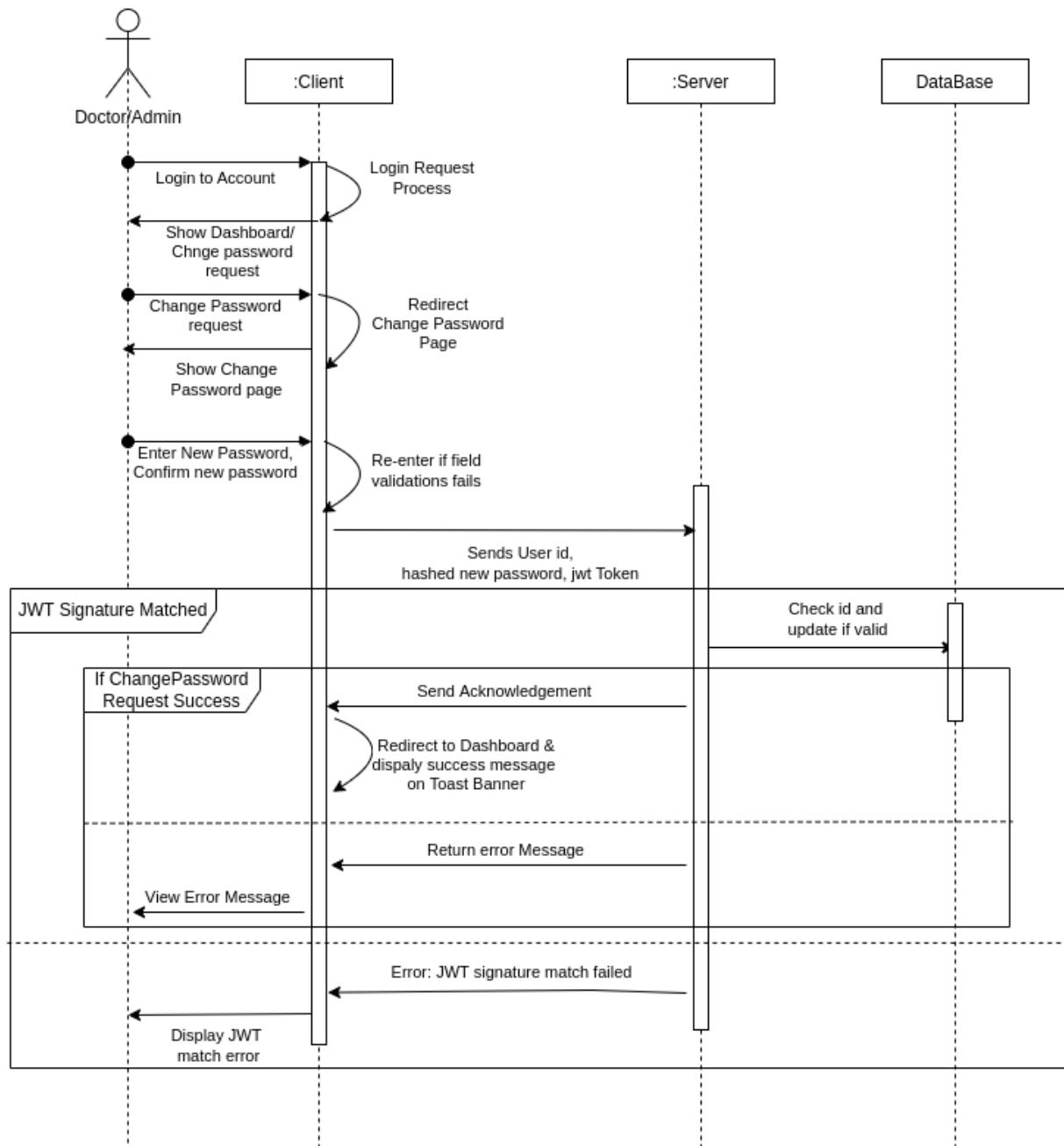
2. Patient Consultation



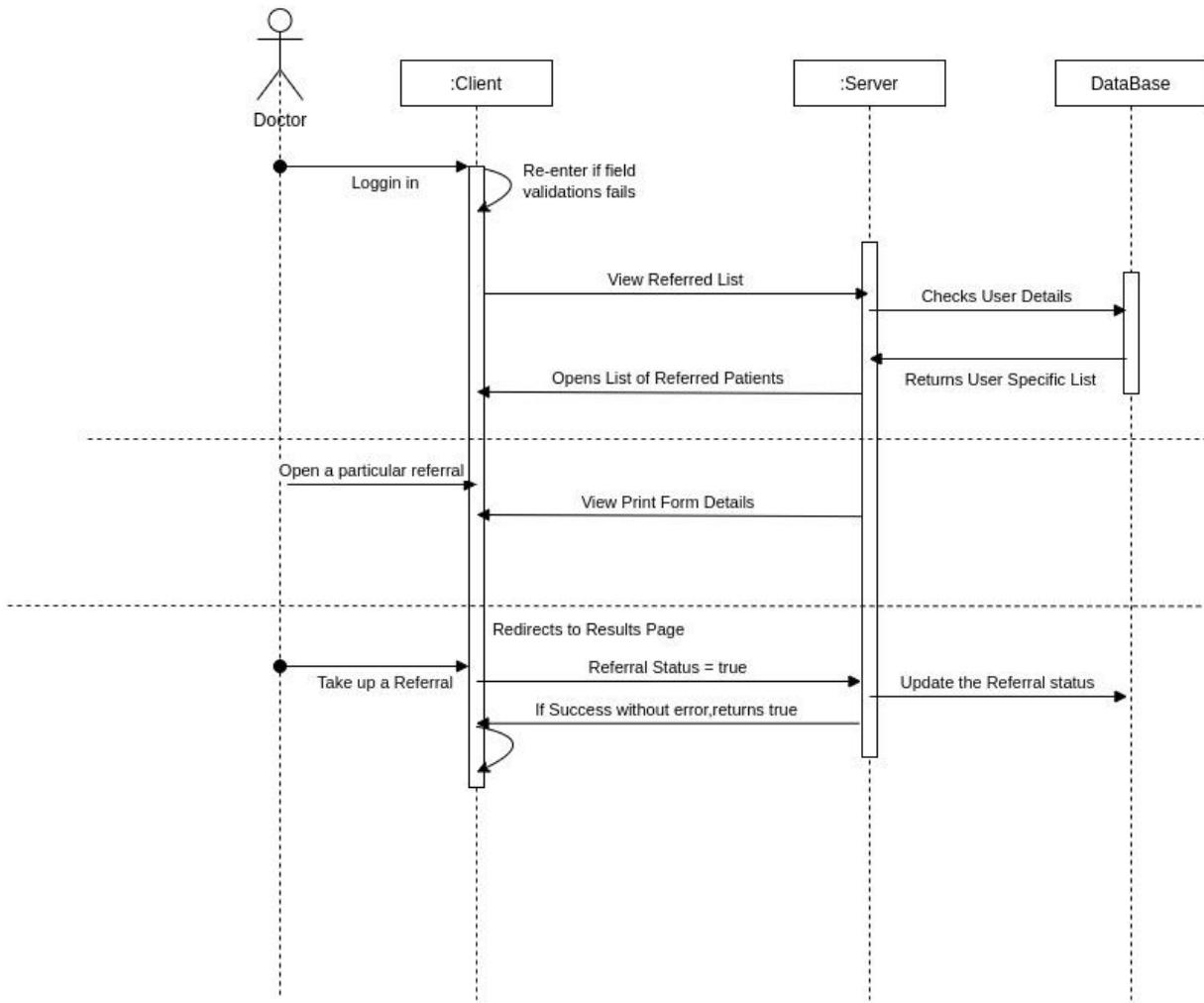
3. Login



4. Change Password



5. Referral Sequence



List of Screens and content :

Navigation Bar will contain options to ViewProfile, Change Password and Logout.

1. Login Page : For Doctor/Admin to login
2. Dashboard : Redirected here on logging in . Contains Navigation Bar. Admin may be able to see some select statistics on this page.
3. Change Password : User will be asked to provide and confirm new Password
4. Create Page : Admin can select an option to add a doctor / hospital / admin / admin organization .
5. Patient Options : Doctors can select an option to search for a patient or create a new patient.
6. Search Patient : Search for Patient given a value and field (abha Id / name / contact number). List of Matching Patients will be displayed as a table.
7. View Patient : View patient demographics of a patient and be able to access his historical records.
8. Create Patient : Doctor can add a new Patient to the database.
9. Consultation Form : Fill the prescription for a consultation. Also provided a button to access the questionnaire if needed.
10. Questionnaire : Fill the questionnaire(s).
11. Referred Patients : Table containing patients referred to the doctor. On clicking on the record redirected to the consultation form.
12. Admin Statistics : Admin can view statistics here.

List of key services and APIs :

- User APIs:
 - Admin/Doctor can Login
 - Logout
 - View profile details
 - Change password
 - Get list of all Doctors/Hospitals (Doctor uses in to refer page / Admin uses while adding to DB/ for analytics)
- Doctor APIs:
 - Get list of Referred patients
 - Get list of Consultation records solved by this doctor

- Search Patient APIs :
 - Get all Patient Demographics in the database
 - Returns a list of all PatientDetails in the Database.
 - Get List of PatientDemographics with the given value of the given field.
(path = "/field/{value}")
 - Get Patient Demographics for a given Name. (Here field is Name).
 - Get Patient Demographics for a given Abha Id.
 - Get Patient Demographics for a given Phone number.
- Register Patient APIs :
 - Add a new patient's PatientDemographics to the database.
- Consultation Form APIs :
 - Add a new Consultation Record to the Database.
 - Fetch Past Consultation Records from the database for the given patient.
- Questionnaire APIs:
 - Get common questionnaire from Database
 - Get special questionnaire from result using questionnaire response
 - And store the response
 - Get Diagnosis based on the special questionnaire response
 - And store the response
 - Get referral guideline questionnaire based on special questionnaire response
 - And store the response

- Admin APIs:
 - Add Doctors into DB
 - Add Hospitals into DB
 - Add Admins into DB
 - Add Admin Organizations into DB
 - Get list of all Organizations
 - Get patient statistics based on District
 - Get Doctor statistics based on District
 - Get disease statistics based on District
 - Get program statistics.

Swagger : On application Running go to [Swagger UI](#) .

Api Documentation

[Base URL : localhost:8080 /]
<http://localhost:8080/v2/api-docs>

Api Documentation
Terms of service
Apache 2.0

admin-controller Admin Controller

<code>POST</code>	<code>/api/addAdmin</code>	addAdmin
<code>POST</code>	<code>/api/addDoctor</code>	addDoctor
<code>POST</code>	<code>/api/addHospital</code>	addHospital
<code>GET</code>	<code>/api/deleteHospital/{id}</code>	deleteEmployee
<code>GET</code>	<code>/api/DistrictHospitalAnalysis/{d}</code>	DistrictHospitalAnalysis
<code>GET</code>	<code>/api/getAllHospitals</code>	getAllHospitals
<code>GET</code>	<code>/api/HospitalAnalysis</code>	HospitalAnalysis
<code>GET</code>	<code>/api/ICD10CodeAnalysis</code>	ICD10CodeAnalysis
<code>GET</code>	<code>/api/QuestionnaireAnalysis</code>	QuestionnaireAnalysis
<code>GET</code>	<code>/api/referralAnalysis</code>	referralsAnalysis
<code>GET</code>	<code>/api/showFormForUpdate/{id}</code>	showFormForUpdate
<code>GET</code>	<code>/api/showHospitalForm</code>	showHospitalForm
<code>GET</code>	<code>/api/StateDoctorAnalysis/{s}</code>	StateDoctorAnalysis

auth-controller Auth Controller

<code>POST</code>	<code>/api/login/signin</code>	authenticateUser
<code>POST</code>	<code>/api/login/signup</code>	registerUser

change-password-controller change Password Controller

<code>POST</code>	<code>/api/changePassword</code>	changePassword
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consultation-record-controller Consultation Record Controller

<code>GET</code>	<code>/api/v1/consultationrecords</code>	getAllConsultationRecords
<code>POST</code>	<code>/api/v1/consultationrecords</code>	addNewConsultation
<code>GET</code>	<code>/api/v1/consultationrecords/doctor/{id}</code>	getConsultationRecordByDoctorId
<code>GET</code>	<code>/api/v1/consultationrecords/{id}/{id}</code>	getConsultationRecordById
<code>GET</code>	<code>/api/v1/consultationrecords/patientAndHospital/{pid}/{hid}</code>	getHospitalConsultationRecordsByPatientId
<code>GET</code>	<code>/api/v1/consultationrecords/patientId/{id}</code>	getAllConsultationRecordsByPatientId
<code>POST</code>	<code>/api/v1/consultationrecords/update/{id}</code>	updateConsultationById

my-profile-controller My Profile Controller

<code>GET</code>	<code>/api/myConsultations/{Did}</code>	getAllConsultations
<code>POST</code>	<code>/api/myProfile</code>	viewprofile

patient-demographics-controller Patient Demographics Controller

<code>GET</code>	<code>/api/v1/patientdemographics</code>	getAllPatientDetails
<code>POST</code>	<code>/api/v1/patientdemographics</code>	addPatientDetails
<code>GET</code>	<code>/api/v1/patientdemographics/abhaId/{id}</code>	getPatientDetailsByAbhaId
<code>GET</code>	<code>/api/v1/patientdemographics/contact/{phoneNo}</code>	getPatientDetailsByPhoneNo
<code>GET</code>	<code>/api/v1/patientdemographics/firstName/{firstName}</code>	getPatientDetailsByFirstNameIgnoreCase
<code>GET</code>	<code>/api/v1/patientdemographics/id/{id}</code>	getPatientDetailById

questionnaire-controller Questionnaire Controller

<code>GET</code>	<code>/api/v1/questionnaire</code>	getAllQuestionnaires
<code>POST</code>	<code>/api/v1/questionnaire</code>	addQuestionnaire

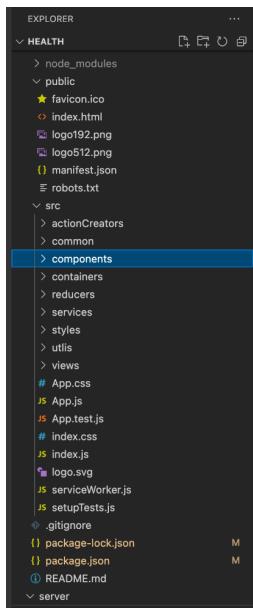
questionnaire-response-controller Questionnaire Response Controller

<code>POST</code>	<code>/api/v1/response</code>	getNextQuestionnaire
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referral-controller Referral Controller

<code>GET</code>	<code>/api/getAllDoctors/{hospitalId}</code>	getAllDoctorsByHospitalId
<code>GET</code>	<code>/api/getAllDoctors/{role}</code>	getAllDoctorsByType
<code>GET</code>	<code>/api/getAllPatients/{id}</code>	getAllPatientsByDoctorId
<code>GET</code>	<code>/api/getDoctorsForReferral</code>	getAllDoctorsForReferral
<code>GET</code>	<code>/api/getHospitalsandDoctorsForReferral</code>	getHospitalsAndDoctorsForReferral
<code>GET</code>	<code>/api/getHospitalsByType</code>	getHospitalByType
<code>GET</code>	<code>/api/getHospitalsForReferral</code>	getAllHospitalsForReferral
<code>GET</code>	<code>/api/getMyHospitalReferrals/{hid}</code>	getHospitalReferrals

Front end folder structure:



actionCreators ⇒ to create actions with appropriate payloads and type (redux feature)

common ⇒ contains constants and configs and Icons which are used everywhere

Components ⇒ reusable elements like Navigation Bar, Toast Notification buttons etc..

Containers ⇒ react container which connects/subscribes to redux store

reducers⇒ maintains the redux store, also manipulates it

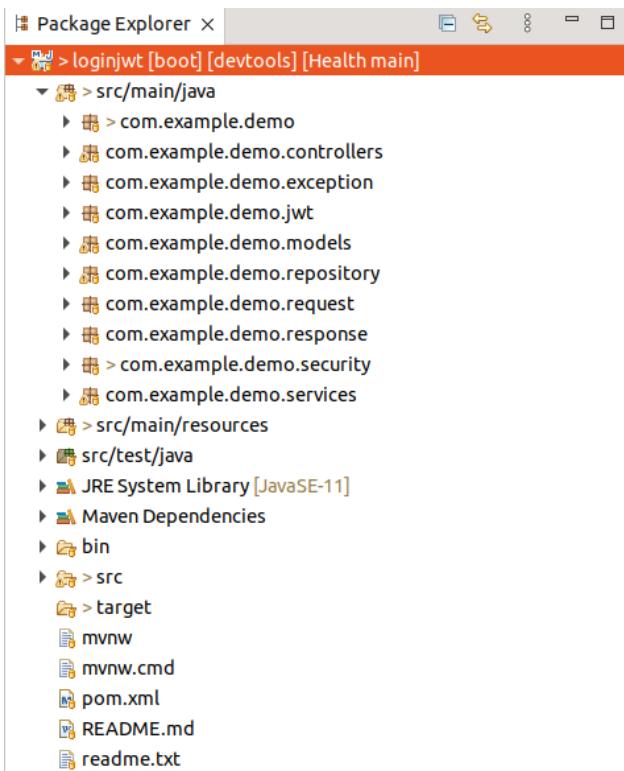
services⇒ API calls

styles⇒ css files for styling different views (not used)

utils⇒ any common functionality should be placed in utils

views⇒ your ui views

Backend Folder Structure:



We have created 4 main packages for all files:

Controller -> HTTP requests are defined here. Uses corresponding service file as an object to call it's methods

Model -> consists of Class files : Objects with attributes and getters and setters - These are linked to the mysql database as tables.

Repository -> Interact with database using Spring JPA

Service -> The business logic function that needs to be done is defined here. It is called by the controller.

Other than these other packages including jwt and security are for the files responsible for JWT authentication.

Front end views :

Single sign in page for all roles:

Sign In

Email
shanthu@gmail.com

Password

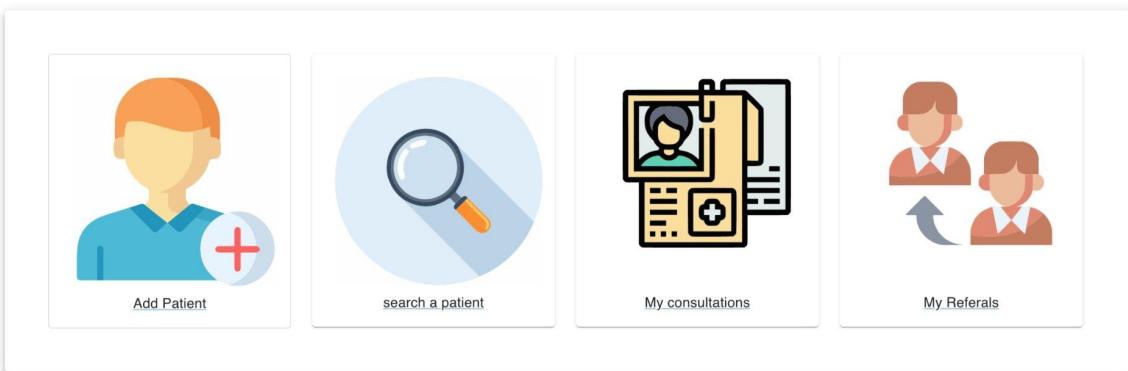
SUBMIT

Dashboard page for Doctors:

Brain Health Initiative

DASHBOARD ADD PATIENT SEARCH PATIENT MY CONSULTATIONS REFERRED LIST 

Welcome to Brain Health Initiative Program anvitha!!!, This is dashboard



The dashboard features four main buttons:

- Add Patient: Shows a person icon with a red plus sign.
- search a patient: Shows a magnifying glass icon.
- My consultations: Shows a computer monitor displaying a patient profile.
- My Referrals: Shows two people connected by a circular arrow.

 Login Successful! 

Add patient View:

Brain Health Initiative

DASHBOARD ADD PATIENT SEARCH PATIENT MY CONSULTATIONS REFERRED LIST

Add Patient Details

First Name *	Last Name
ABHA ID	Date of Birth dd/mm/yyyy
Gender	Education
Occupation	Languages
Socioeconomic Status	Address
District	Pincode
Telephone Number	Informant Caregiver Name
Relationship with Patient	Blood Group

SUBMIT

GO BACK

Search patient view:

Brain Health Initiative

DASHBOARD ADD PATIENT SEARCH PATIENT MY CONSULTATIONS REFERRED LIST

Please enter value

Abha ID

SEARCH

Patients List

Name	Age	Contact Number	Past History
Sorry, no matching records found			

Rows per page: 10 ▾ 0-0 of 0 < >

On successful fetch, Search patient view:

The screenshot shows the 'Patients List' section of the Brain Health Initiative interface. At the top, there are two input fields: 'Please enter value' containing '1234567890' and 'Abha ID' containing '1234567890'. A blue 'SEARCH' button is to the right. Below this is a table header with columns: Name, Age, Contact Number, View Patient, Add Consultation, and Past History. A single row is shown for a patient named 'sowmith pinky' (Age 0, Contact 8767876787). To the right of this row are three buttons: 'VIEW PATIENT DETAILS' (highlighted in blue), 'ADD CONSULTATION', and 'VIEW PATIENT HISTORY'. At the bottom of the table, it says 'Rows per page: 10' and '1-1 of 1'.

Patient Details View:

The screenshot shows the 'Patient Details' form. It contains the following fields and their values:

Field	Value
First Name *	sowmith
Last Name	pinky
ABHA ID	1234567890
Date of Birth	31/05/2022
Age	0
Gender	Female
Education	ssc
Occupation	thelidu
Languages	3
Socioeconomic Status	Above Poverty line
Address	bangalore
District	bangalore
Pincode	560100
Telephone Number	8767876787
Informant Caregiver Name	madhav
Relationship with Patient	dosthi
Blood Group	B-

At the bottom of the form are three buttons: 'GO BACK', 'ADD CONSULTATION', and 'VIEW PATIENT HISTORY'.

Add consultation View:

The screenshot shows the 'Add Consultation Details' page of a medical application. At the top, there's a blue header bar with the text 'Brain Health Initiative' on the left and navigation links 'DASHBOARD', 'ADD PATIENT', 'SEARCH PATIENT', 'MY CONSULTATIONS', 'REFERRED LIST', and a user icon on the right.

The main form area has a light gray background. At the top right of the form is a button labeled 'QUESTIONNAIRE'. The form is titled 'Add Consultation Details' in bold black text.

Below the title, there are several input fields and dropdown menus:

- Date of Consulting: A text input field containing '11/05/2022' with a calendar icon to its right.
- Complaint: A text input field.
- Examination: A text input field.
- Illness Summary: A text input field.
- Diagnosis Type: A dropdown menu.
- ICD Description: A dropdown menu.
- ICD 10 Code: A dropdown menu.
- Improvement Status: A dropdown menu.

A section titled 'Medicines' follows, containing:

- Medicine Name: A text input field.
- Dosage: A text input field.
- Dosing Time: A text input field.
- Duration: A text input field.

Below these fields is a blue button labeled 'ADD MEDICINE'.

At the bottom of the form, there are two text input fields: 'Treatment Instructions' and 'Remarks'.

Below these fields are four radio buttons with labels: 'Move To IP', 'Review SOS', 'Referral', and 'Follow Up Date'.

In the center of the bottom row is a blue 'SUBMIT' button.

At the very bottom of the form are three buttons: 'GO BACK', 'VIEW PATIENT DETAILS', and 'VIEW PATIENT HISTORY'.

Questionnaire View:

Suggested Diagnosis: uncertain for seizure

Common Questionnaire

Loss of Consciousness	Yes <input checked="" type="radio"/> No <input type="radio"/>
Sudden episode of loss of contact with the surroundings	Yes <input checked="" type="radio"/> No <input type="radio"/>
Uncontrollable shaking of head, arms or legs	Yes <input type="radio"/> No <input type="radio"/>
Abnormal speech	Yes <input type="radio"/> No <input type="radio"/>
Facial paralysis with sideways deviation of the mouth	Yes <input type="radio"/> No <input type="radio"/>
Weakness or Paralysis of arms or legs	Yes <input type="radio"/> No <input type="radio"/>
Difficulty in walking	Yes <input type="radio"/> No <input type="radio"/>
Any loss of sensation or any abnormal sensation in the face, arms and legs	Yes <input type="radio"/> No <input type="radio"/>
Deterioration of memory within the last five years	Yes <input type="radio"/> No <input type="radio"/>
Drooping of eyelids	select option NA
Episodes of severe facial pain	Yes <input type="radio"/> No <input type="radio"/>

On select of Referral option:

- Move To IP Review SOS Referral Follow Up Date

Hospital Type *

▼

▼

Primary Health Centre

Secondary Health Centre

Tertiary Health Centre

Only Hospitals of selected type will be displayed:

- Move To IP Review SOS Referral Follow Up Date

Hospital Type *

▼

Referred Hospital Name *

X
▲

2. kims, bangalore, 560100

If follow up is chosen :

- Move To IP Review SOS Referral Follow Up Date

Follow Up

On Successful submit a toast notification and print button will be rendered:

- Move To IP Review SOS Referral Follow Up Date

Hospital Type * —

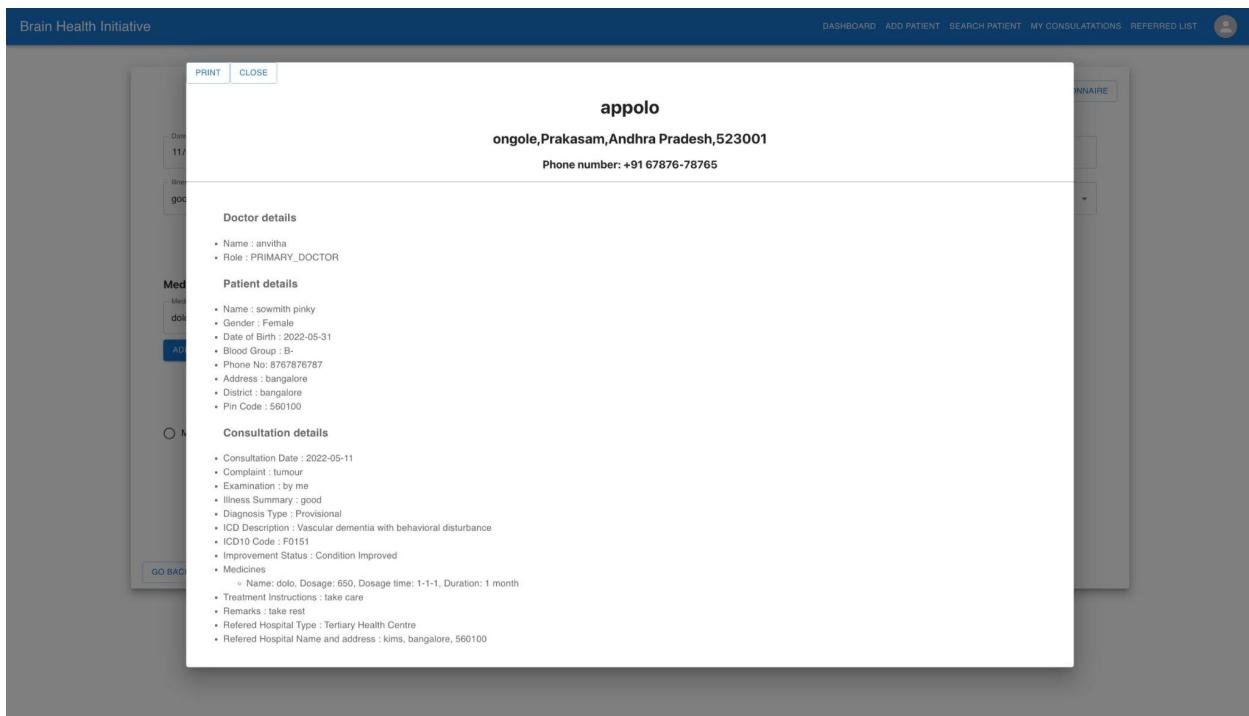
Tertiary Health Centre

Referred Hospital Name * —

2. kims, bangalore, 560100

PRINT

On click of print form will be displayed in below format:



Doctors referred view:

Brain Health Initiative

DASHBOARD ADD PATIENT SEARCH PATIENT MY CONSULTATIONS REFERRED LIST 

Referred list

Patient Name	Consultation Date	Previous Doctor Name	Previous Hospital Name	Patient Phone Number	ICD Description	Improvement Status	Open full consultation form	Takeup consultation
sowmithpinky	2022-05-08	anvithareddy	appolo	8767876787	Dementia in other diseases classified elsewhere without behavioral disturbance	Condition Worsened	OPEN	<button>TAKE UP CONSULTATION</button>
sowmithpinky	2022-05-08	anvithareddy	appolo	8767876787	Vascular dementia without behavioral disturbance	Condition Worsened	OPEN	<button>TAKE UP CONSULTATION</button>

Rows per page: 10 ▾ 1-2 of 2 < >

View Patients past history :

Brain Health Initiative

DASHBOARD ADD PATIENT SEARCH PATIENT MY CONSULTATIONS REFERRED LIST 

I hereby declare that I have the consent of the concerned patient to view all his past e-health records

Consultation History of sowmith pinky, 0 years old, Female

Doctor	Hospital	Consultation Date	Complaint	Improvement Status	View Consultation	View Patient
anvitha	appolo	2022-05-08	adsf	Condition Worsened	<button>VIEW FULL CONSULTATION</button>	<button>VIEW PATIENT DETAILS</button>
anvitha	appolo	2022-05-08	asdf	Condition Improved	<button>VIEW FULL CONSULTATION</button>	<button>VIEW PATIENT DETAILS</button>
anvitha	appolo	2022-05-08	asfd	Condition Worsened	<button>VIEW FULL CONSULTATION</button>	<button>VIEW PATIENT DETAILS</button>

Rows per page: 10 ▾ 1-3 of 3 < >

[GO BACK](#) [ADD CONSULTATION](#)

View patient past history with consent:

Brain Health Initiative

DASHBOARD ADD PATIENT SEARCH PATIENT MY CONSULTATIONS REFERRED LIST



I hereby declare that I have the consent of the concerned patient to view all his past e-health records

Consultation History of sowmith pinky, 0 years old, Female

SEARCH FILTERS

Doctor	Hospital	Consultation Date	Complaint	Improvement Status	View Consultation	View Patient
anvitha	appolo	2022-05-08	adsf	Condition Worsened	VIEW FULL CONSULTATION	VIEW PATIENT DETAILS
anvitha	appolo	2022-05-08	asdf	Condition Improved	VIEW FULL CONSULTATION	VIEW PATIENT DETAILS
anvitha	appolo	2022-05-08	asfd	Condition Worsened	VIEW FULL CONSULTATION	VIEW PATIENT DETAILS
jesus	kims	2022-05-11	adsf	Condition Improved	VIEW FULL CONSULTATION	VIEW PATIENT DETAILS

Rows per page: 10 ▾ 1-4 of 4 < >

[GO BACK](#)

[ADD CONSULTATION](#)

My Consultations View:

Brain Health Initiative

DASHBOARD ADD PATIENT SEARCH PATIENT MY CONSULTATIONS REFERRED LIST



Consultation Records created by anvitha, appolo, ongole

SEARCH FILTERS

Consultation Date	Complaint	Improvement Status	View Consultation	View Patient
2022-05-08	adsf	Condition Worsened	VIEW FULL CONSULTATION	VIEW PATIENT DETAILS
2022-05-08	asdf	Condition Improved	VIEW FULL CONSULTATION	VIEW PATIENT DETAILS
2022-05-08	asfd	Condition Worsened	VIEW FULL CONSULTATION	VIEW PATIENT DETAILS

Rows per page: 10 ▾ 1-3 of 3 < >

[GO BACK](#)

Account menu view: (same for all roles)

The screenshot shows the Brain Health Initiative dashboard. At the top, there is a blue header bar with the text "Brain Health Initiative". Below the header, the main content area displays a welcome message: "Welcome to Brain Health Initiative Program jesus@gmail.com!!!, The dashboard". In the top right corner, there is a user profile icon and a dropdown menu. The dropdown menu contains three items: "My profile" (with a person icon), "Change Password" (with a lock icon), and "Logout" (with a sign-out icon).

Change password View:

The screenshot shows the "Change Password" view. It features a central white box with a title "Change Password" at the top. Inside the box, there are two input fields: "New Password" and "Confirm Password", each preceded by a label and a horizontal line. Below these fields is a blue "SUBMIT" button.

My profile View:

Brain Health Initiative

DASHBOARD ADD PATIENT SEARCH PATIENT MY CONSULTATIONS REFERRED LIST 

Welcome to Brain Health Initiative Program, anvitha !!!

User Details:

Name:anvitha
UserId: 1
email: anvitha@gmail.com
Role: PRIMARY_DOCTOR

Hospital Details:

Hospital id: 1
Hospital name: appolo
Hospital type: Primary Health Centre
Hospital state: Andhra Pradesh
Hospital district: Prakasam
Hospital city: ongole
Hospital pincode: 523001
Hospital contactNumber: +91 67876-78765

Admin Dashboard View:

Brain Health Initiative

DASHBOARD CREATE ANALYTICS 

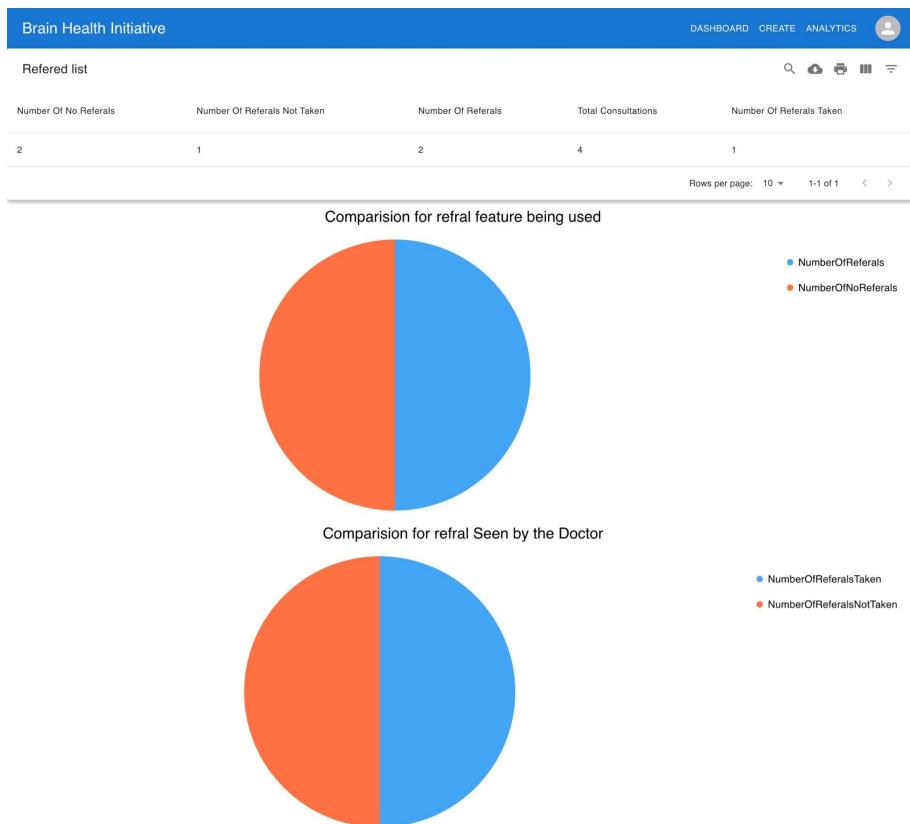
Welcome to Brain Health Initiative Program udithm@gmail.com!!!, This is dashboard



Analytics Table View: (rendered by clicking on Analytics from NavBar)

Analytics	
Analytics Name	Description
Referral Analytics	Visualization to see statistics of referrals
Hospital Count Analytics	Visualization to see statistics of Hospitals
ICD10 Frequency Analysis	Visualization to see distribution of ICD10 recorded
Questionnaire Analysis	Visualization to see the usage of questionnaire
State Doctor Analysis	Visualization to see the spread of doctors type in a state

Referral Analytics View:



Hospital Analysis View:

Brain Health Initiative

DASHBOARD CREATE ANALYTICS



Please select the state and district to view the hospital count pie chart

State* District*

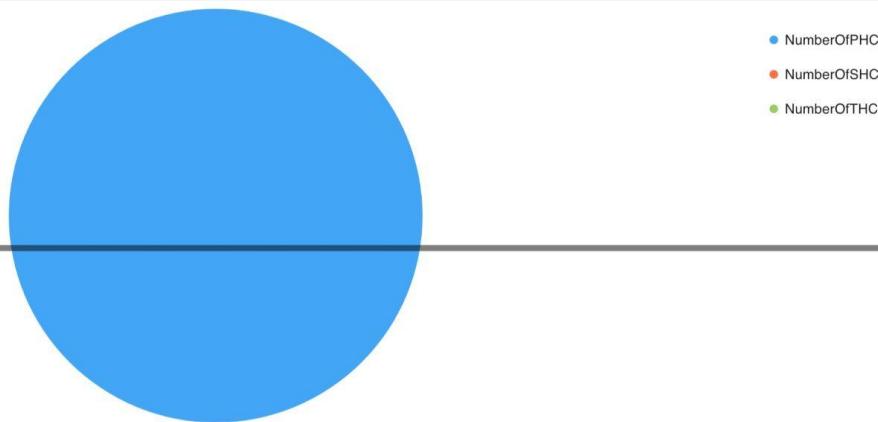
SUBMIT

Selected hospital Statistics



Number Of SHC	Number Of THC	Total Hospitals	Number Of PHC
0	0	1	1

Rows per page: 10 ▾ 1-1 of 1 < >



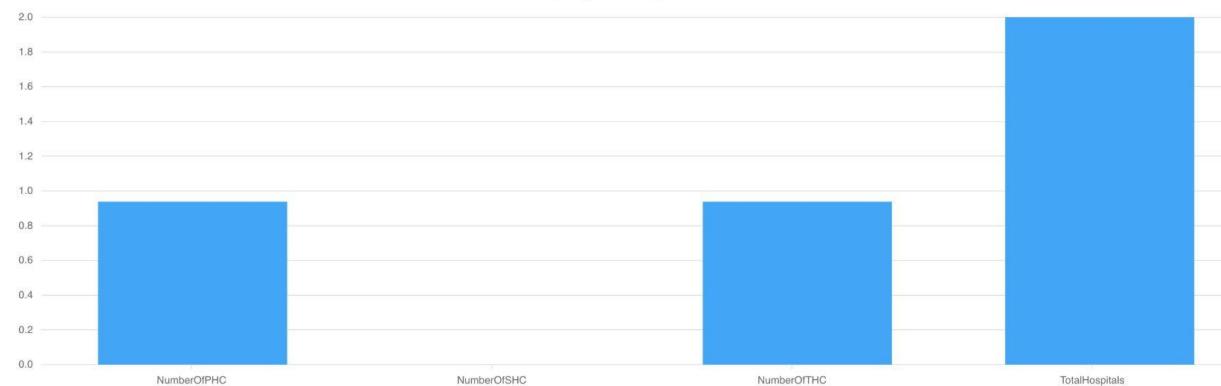
Total program hospital Statistics



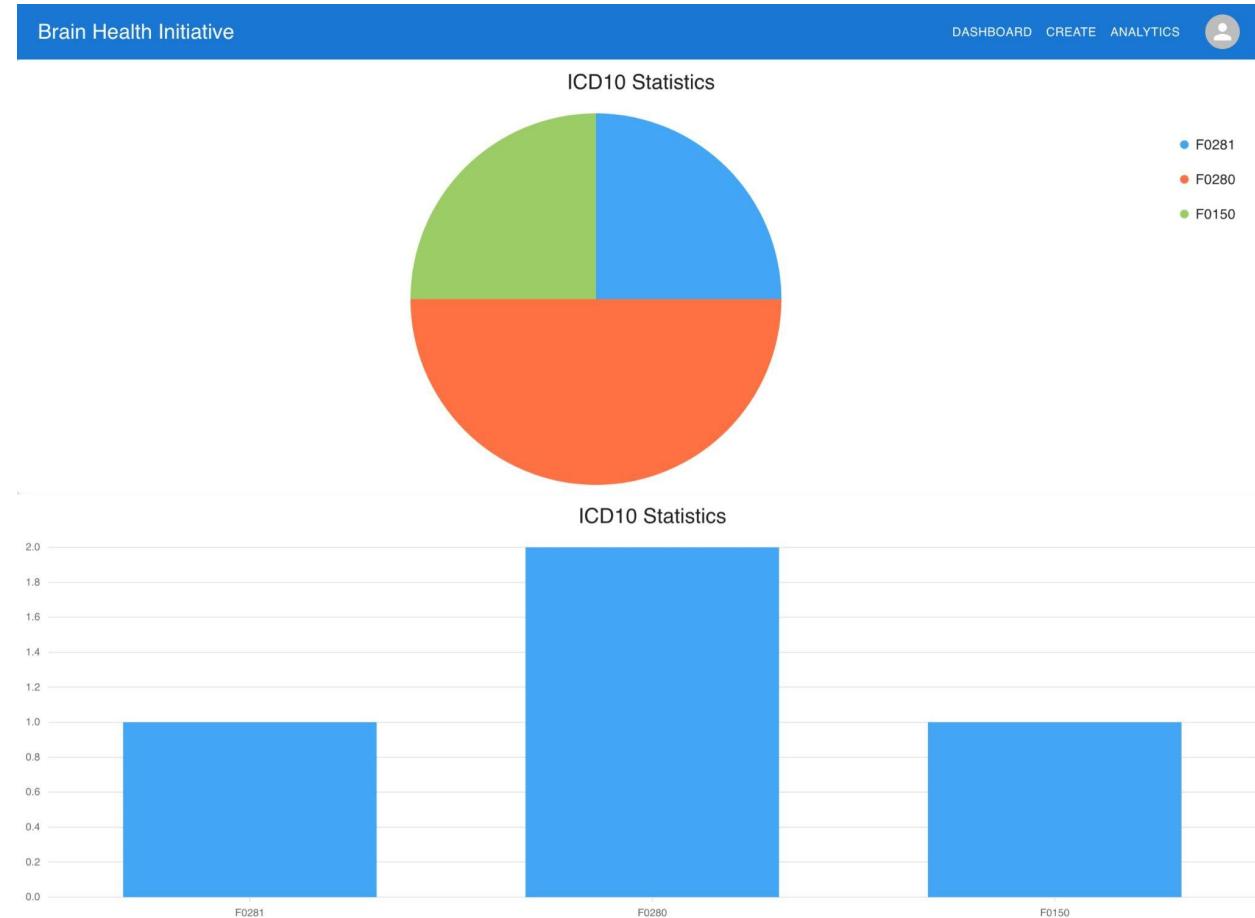
Number Of SHC	Number Of THC	Total Hospitals	Number Of PHC
0	1	2	1

Rows per page: 10 ▾ 1-1 of 1 < >

Total program hospital Statistics



ICD10 Analysis View:



Questionnaire Analysis View:

Brain Health Initiative

DASHBOARD CREATE ANALYTICS 

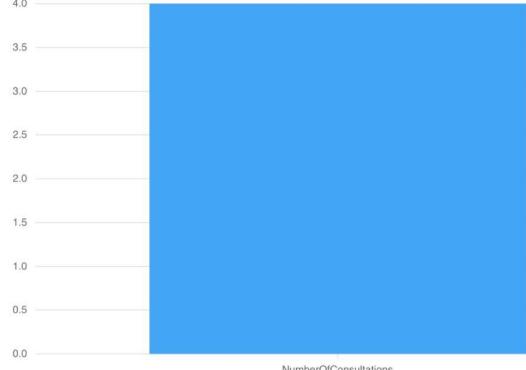
questionere statistics

Total Number Of Consultations TotalQuestionnaireUsed

4	0
---	---

Rows per page: 10 ▾ 1-1 of 1 < >

Total program hopital Statistics



NumberOfConsultations	TotalQuestionnaireUsed
4.0	0.0

Doctor Analytics View:

Brain Health Initiative

DASHBOARD CREATE ANALYTICS 

Please select the state to view the doctor count pie chart

State: * Karnataka

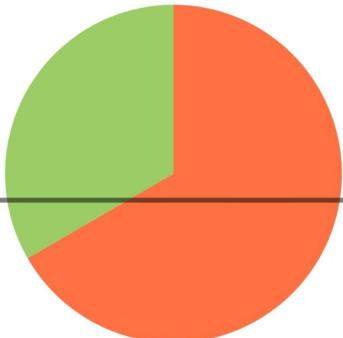
SUBMIT

Selected hopital Statistics

Number Of TS Total Doctors Number Of PD Number Of SS

1	3	0	2
---	---	---	---

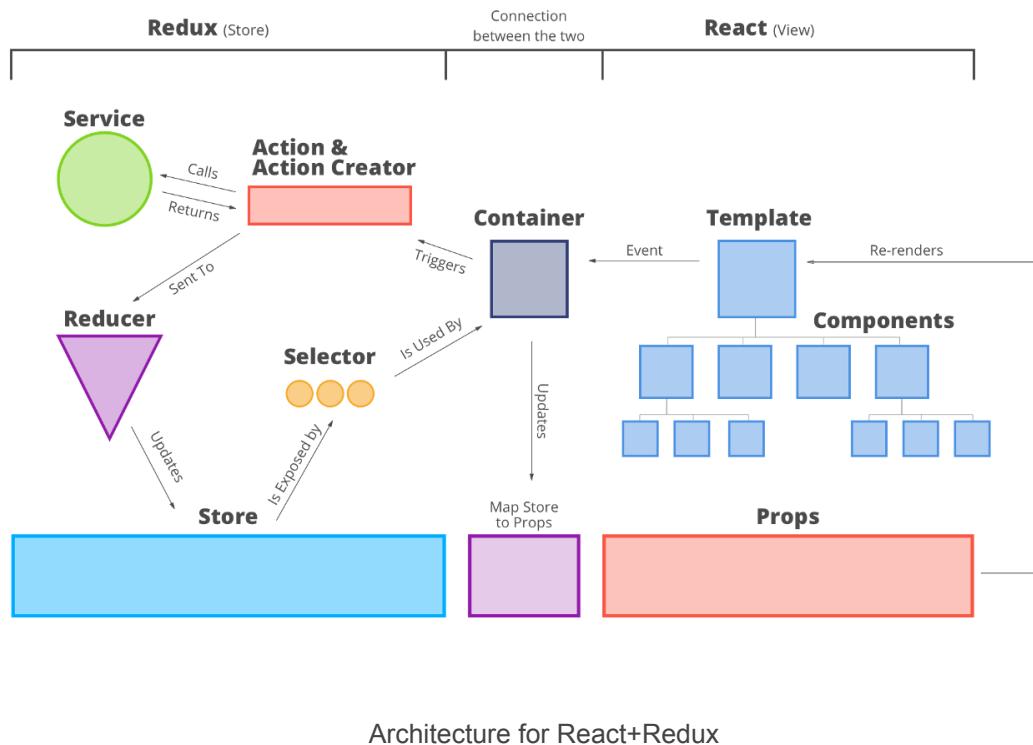
Rows per page: 10 ▾ 1-1 of 1 < >



- NumberOfPD
- NumberOfSS
- NumberOfTS

Challenges faced :

- Problem: Data Consistency Solution: Redux
- Easy Access of Data from different Components: solution: Redux



Detailed Explanation:

Store: Contains all the data for our application

Service: Contains all the api calls of our application

Action and Action Creator: Action describes the changes in your state of the application

Reducer: Carries out the state transition depending on the action. A application have multiple reducers

Selector: Specifies which reducer has to be used. This is because we only choose what data is required, not the entire state of the application.

Container: This is a react component which acts as a medium of communication from view and other parts of code.

View: This contains the code how a ui has to be rendered and what fields have to be displayed. The only way of communication for views is through containers.

Flow:

Containers are subscribed to redux stores. After every api call an appropriate action containing the modifications and type of action will be dispatched from services to the redux store. Reducer takes appropriate action on the state of the application. After successful update of the state a signal will be sent to the Containers that are subscribed to this particular Store. Containers then pass on the information to the views. Views make the appropriate changes in the desktop display.