

Swasthya – Healthcare Solution

- **Functional Requirements**

- 1. Manage User**

- 1.1. Sign In**

Description: Enter Patient id and password. If patient record exists then show dashboard else go back to login page.

Input: user details

Output: Dashboard

- 1.2. View Medical History**

Description: Patient can view his medical history by login to his account.

Prerequisite: Patient must be logged in to application.

Output: All his visits to hospital along with the medicines prescribed each time.

- 1.3. Appointment Booking**

Description: Patient can book appointment for his upcoming visit to clinic. Date must not be more than 5 days also appointments in the selected date must not be greater than 60. If appointment is not accepted then patient need to select another day.

Input: select date

Output: Confirmation

- 1.4. Delete/Modify Patient Details**

Description: To change patient's details (only name, email, mobile & address)

Input: Updated patient details

Output: Update confirmation

- 2. Doctor Interface**

- 2.1. Search for Patient**

Input: Patient ID

Output: Patient profile and his medical history

2.2. Prescribe medicines to dedicated patients

Description: Doctor will search for patient, once he get the patient details, he will diagnose the patient's problem and prescribe the medicines. After filling all the details, the data will be stored in database.

2.2.1. Search for patient

Input: Patient ID

Output: Patient details

2.2.2. Patient Problem

Input: Exact problem

Output: Diagnose the problem

2.2.3. Search for medicines

Description: Select timings (morning, afternoon, night) and other options.

Input: Medicine name, timings

Output: Insert into prescription array

2.2.4. Days of medicine intake

Description: To show the patient, how many day the medicines has to be taken.

Input: No of days to take the prescribed medicines

Output: Insert into prescription array

2.3. View appointments

Description: Doctor can see all the appointments on a particular date along with patient name.

Input: Date

Output: Appointment list

2.4. Doctor Login

Description: Doctor should log in to his portal to do task. Doctor will require to log in every day due to security.

Input: ID and password

Output: Confirmation

3. Admin

3.1. New Patient

Description: Patient account can only be created by hospital staff. Patient will get his credentials in his email Id.

Input: name, email, mobile no, gender, blood group, age

Output: Confirmation with patient Id

3.2. View appointments

Description: Doctor can see all the appointments on a particular date along with patient name.

Input: Date

Output: Appointment list

4. Other Functions

4.1. Notifications

Description: Patient will get notification when time comes to take the medicine each time.

Output: Notification in mobile application with the medicine names.

4.2. Update prescription

Description: On each day the prescription must be updated to get medicine reminders.

5. Normal Users

5.1. Problem and its Diagnosis

Description: Normal users who do not have account linked with hospital can also search for problems and get articles relating to it.

Input: Problem details

Output: List of articles related to problem

• Non-Functional Requirements

1. Database

To store records of patients along with their medical history, doctors and other related information. **MongoDB** will be used to store all the data.

2. Operating System

The software will be designed to run in every System.

For Hospital, doctor and staff: **Windows/MacOS** is required.

For Patient: **Android/IOS** is required.

3. Development Tools

→ For development of the software, **VSCode** IDE is required.

→ For software testing, **Postman** is used.