



International Institute of Information Technology, Bangalore

## Healthcare Application Development

CS-837

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### **Swasth-Sahayak**

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## Health Worker Use Case

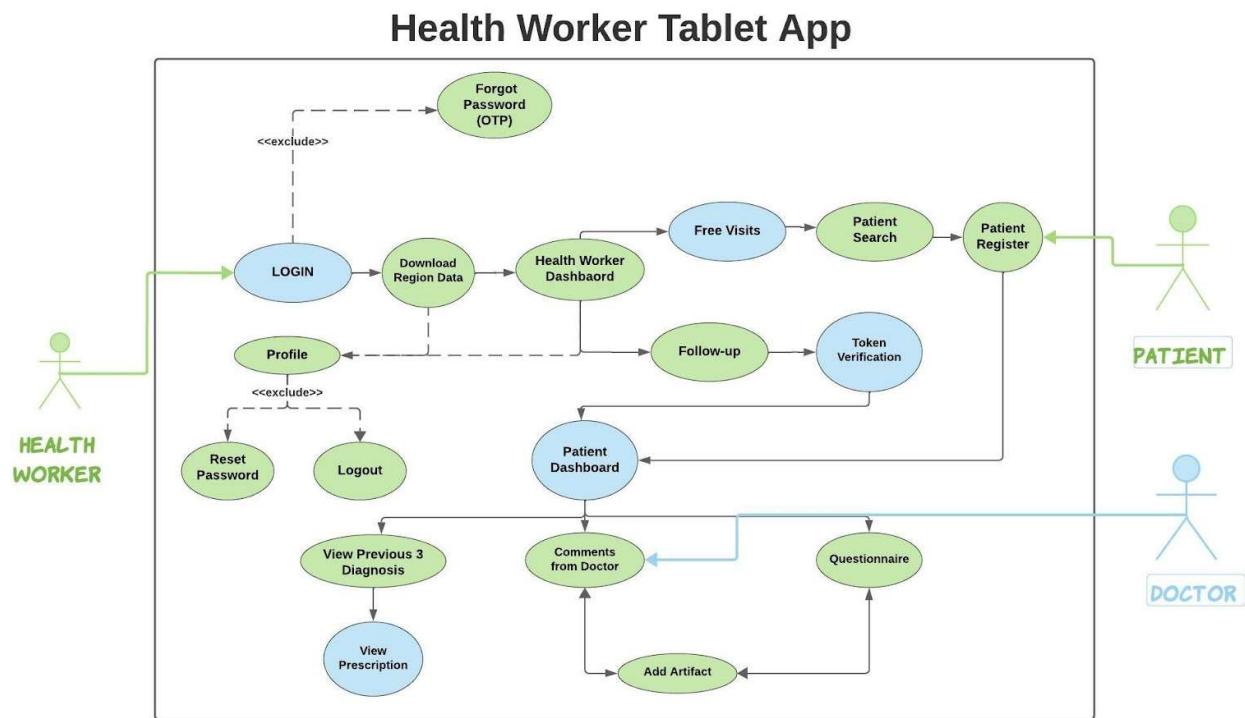


Figure: Health-Worker-Use-Case

## Doctor Use Case

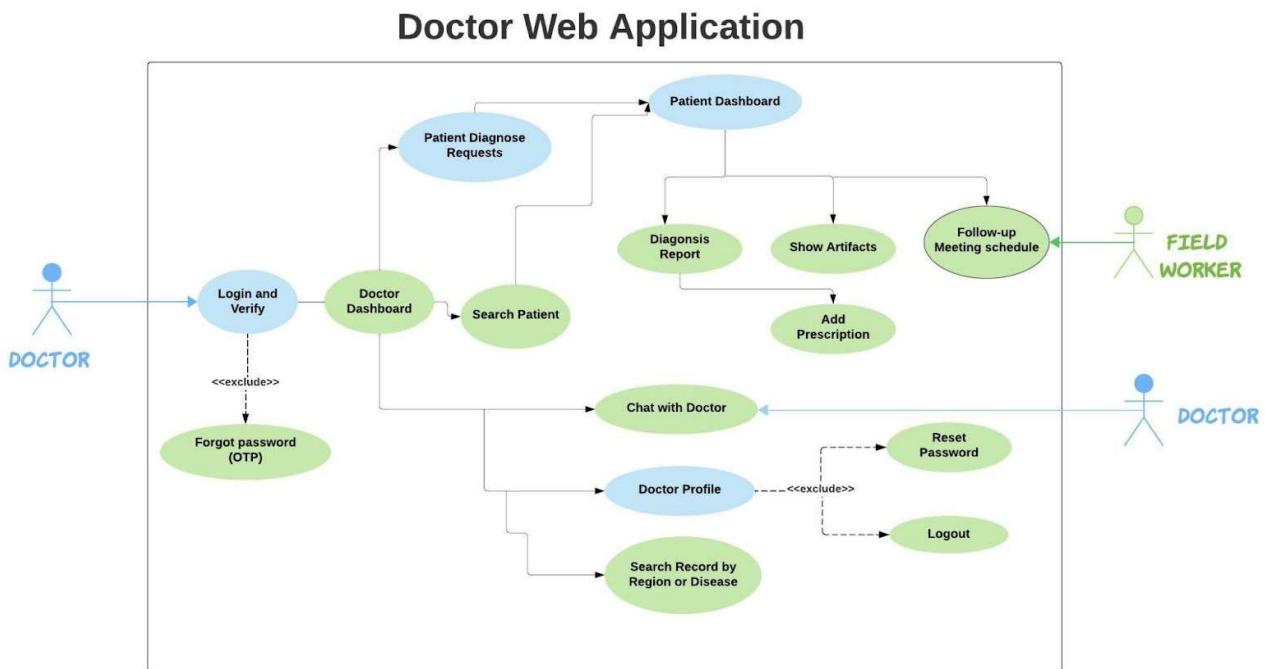
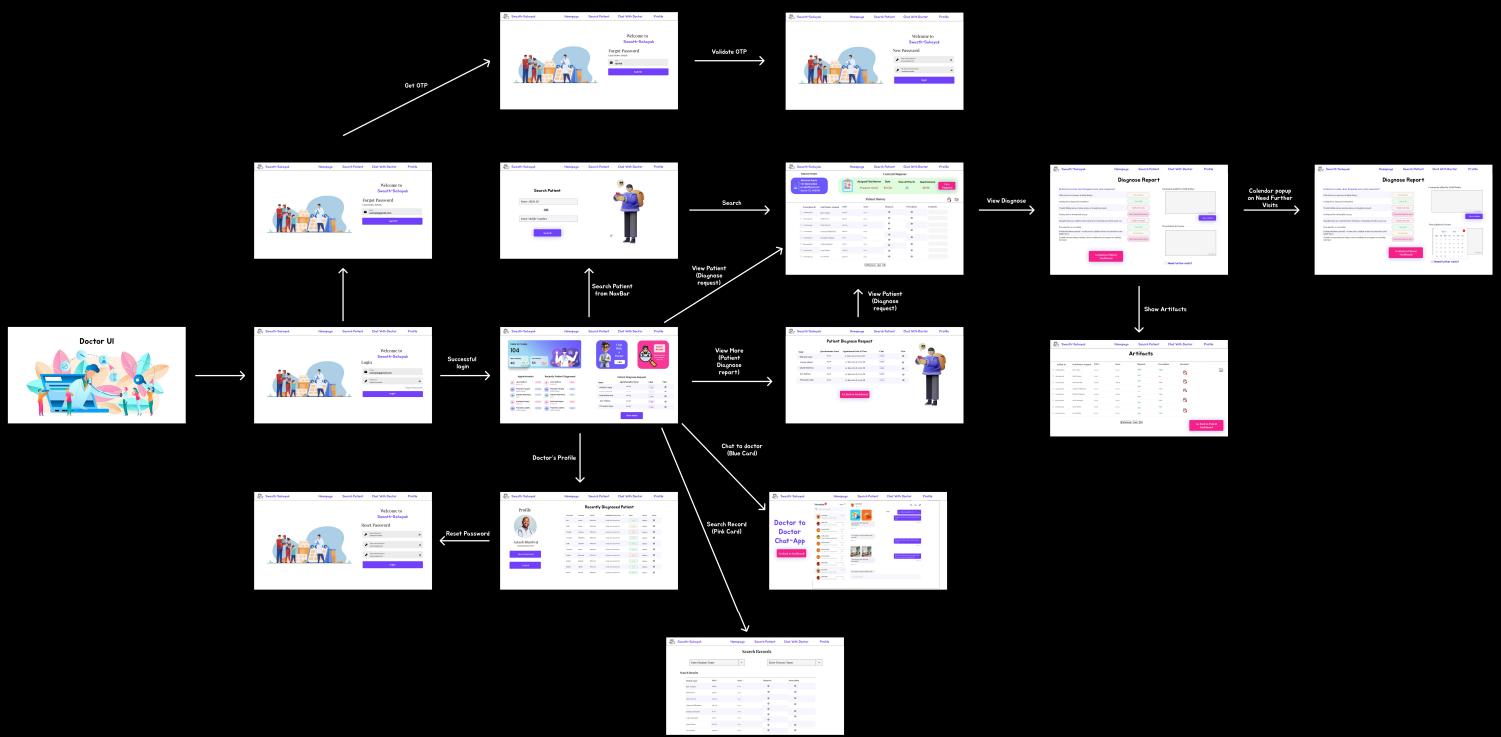


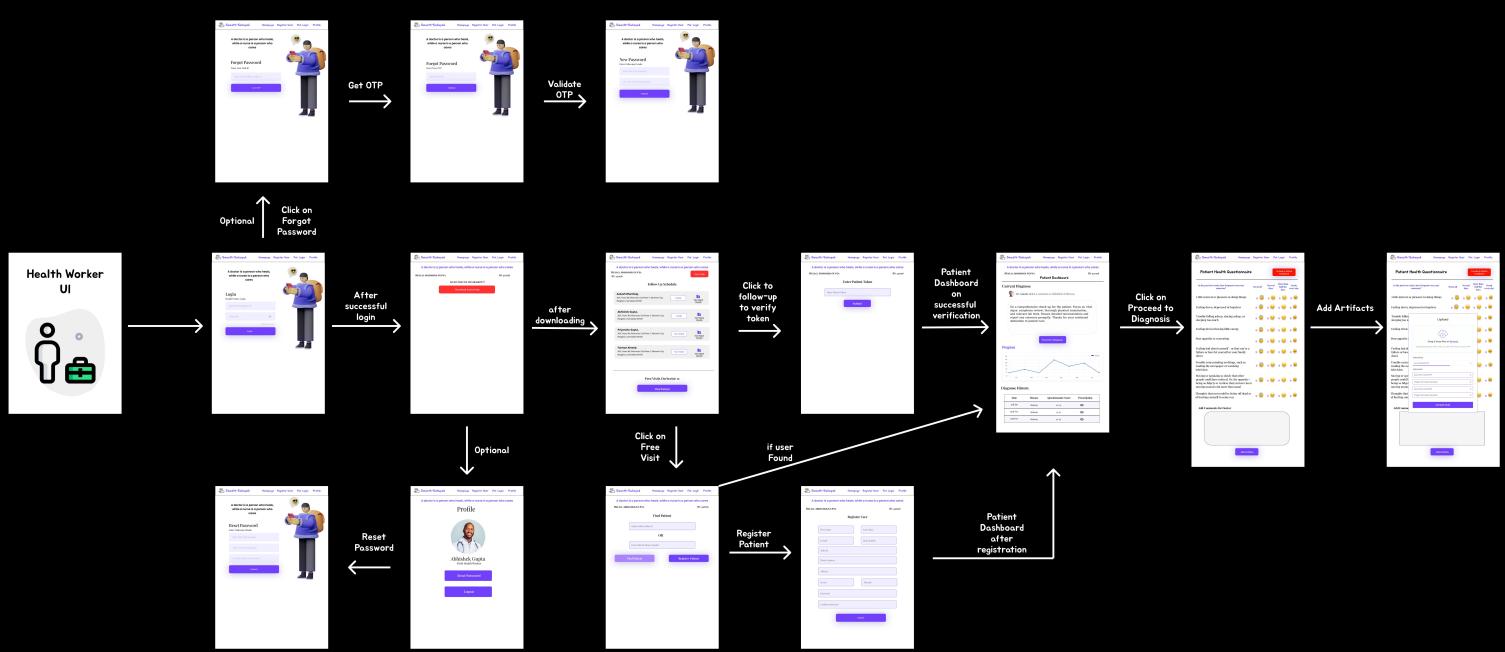
Figure: Doctor-Use-Case

# User Interface

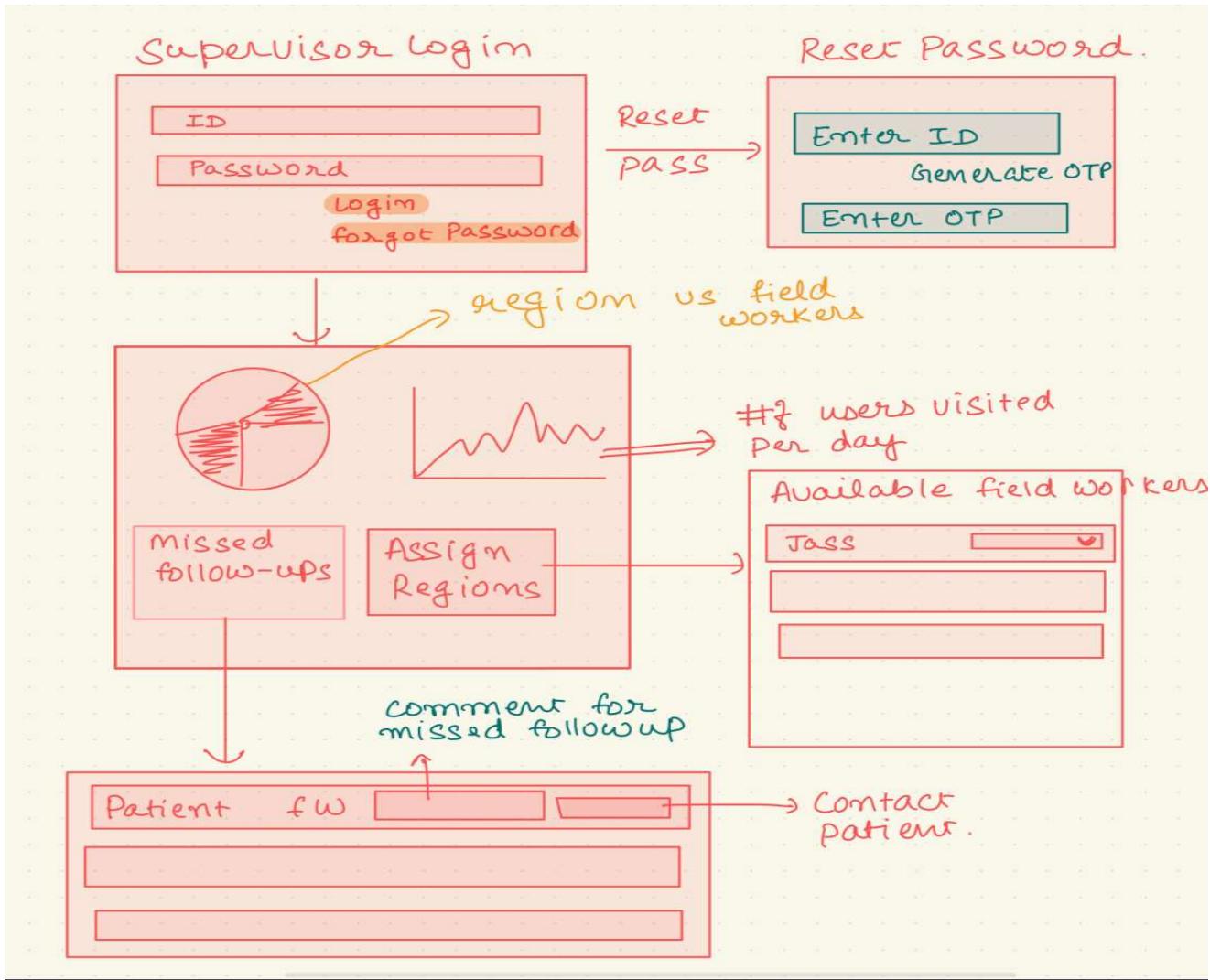
## Doctor's Web Application



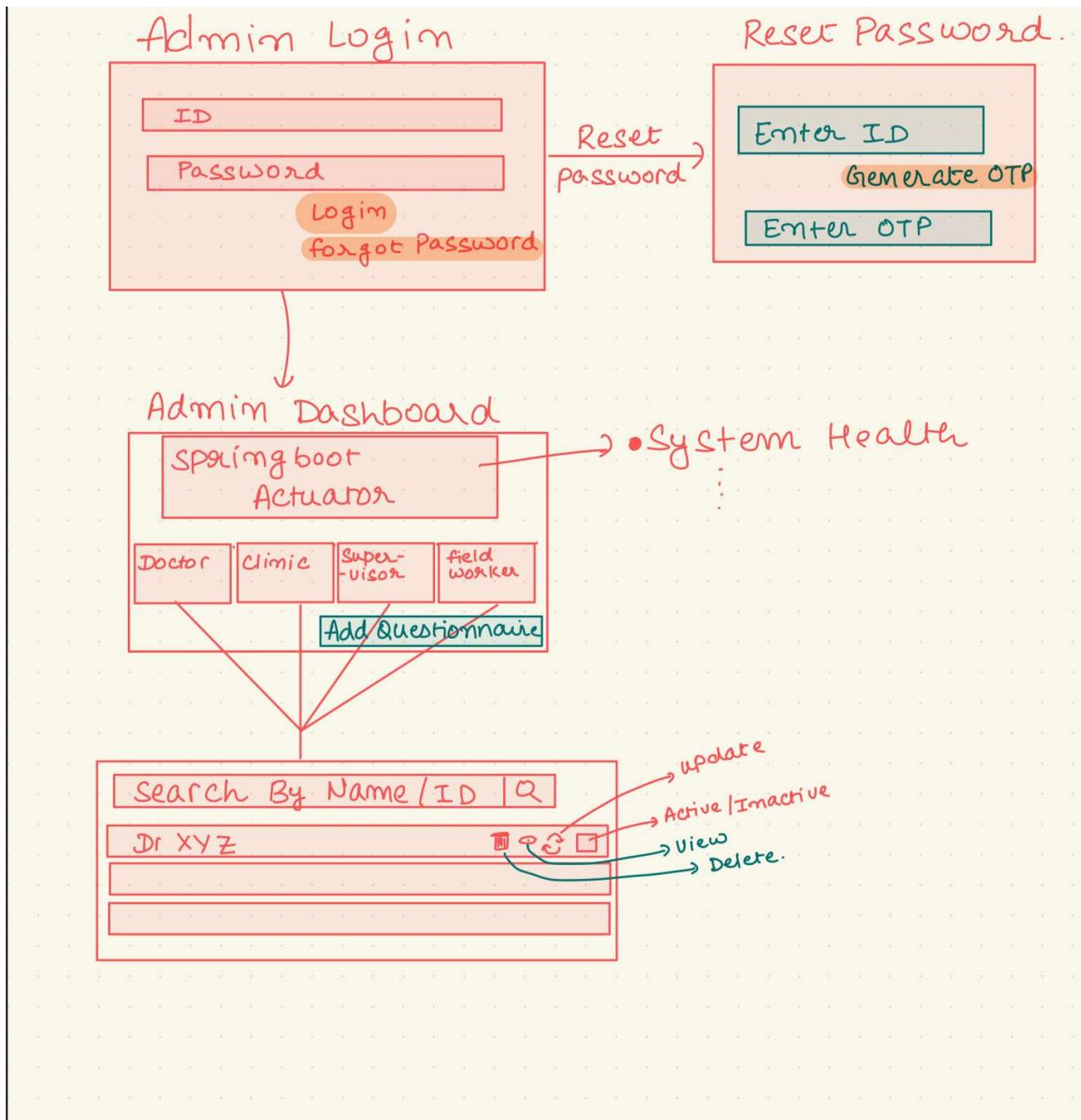
# Field-Worker's Tablet Application



## Supervisor's Web- Application



## Admin's Web- Application



# Requirements

## Tablet App For Field Worker.

Tablet App for Field Workers in Low-Connectivity Areas:

**Objective:** Facilitate data collection in rural areas with limited internet connectivity, focusing on password management, region data download, and patient interactions.

### **1) Login and Password Management:**

- a)** Field workers can change/reset passwords for secure access.
- b)** Successful login allows downloading region-specific data.

### **2) Dashboard:**

- a)** Two main sections: Follow-ups and Free visits.

### **3) Follow-ups:**

- a)** Patients receive an SMS token on the scheduled follow-up day.
- b)** Access to follow-up details includes doctor's comments and a re-diagnosis questionnaire.
- c)** Field workers can add artifacts during the follow-up procedure.

### **4) Free Visits:**

- a)** Field workers use downloaded data to identify existing users during free visits.
- b)** Search functionality for existing users; new users can be added to the database.
- c)** Proceed to the questionnaire for both existing and new users.

### **5) Questionnaire:**

- a)** Conducted during both follow-ups and free visits.
- b)** Generates a severity score indicating the mental state identified.

### **6) History Viewing:**

- a)** Field workers can view up to 3 previous visits.
- b)** Includes a preview of prescriptions and diagnosed diseases.

This streamlined app enhances efficiency for field workers in low-connectivity areas, focusing on essential functions for data collection and patient interaction.

## **Doctor Web App:**

Accessible from any internet-connected device, this app provides doctors with essential features for efficient management and patient consultation.

### **1) Password Management:**

- a) Doctors can change/reset passwords for secure access.

### **2) Dashboard:**

- a) Total number of appointments today.
- b) View appointment details.
- c) Recently diagnosed patients list.
- d) Chat with other doctors.

### **3) Search and Records:**

- a) Search records based on disease name and region.
- b) Handle walk-in patients via the "Search Patient" option.
- c) Edit patient records and provide consultations.

### **4) Patient Diagnose Request:**

- a) Review and consult on new diagnosis reports sent by field workers.

### **5) Profile:**

- a) View recently diagnosed patient lists.
- b) Reset passwords and logout options.

### **6) Patient Dashboard:**

- a) Access patient history, including previous diagnoses.
- b) View current questionnaire results and field worker comments with attached artifacts.

### **7) Prescriptions and Follow-ups:**

- a) Make prescriptions based on the questionnaire and field worker comments.
- b) Add the next follow-up date and comments for field workers.
- c) Automatic scheduling of follow-up dates/comments using the algorithm.
- d) This web app ensures flexibility, ease of access, and comprehensive functionality for doctors, streamlining their workflow and enhancing patient care.

### **Admin Portal:**

1. The admin portal should allow administrators to add/drop the doctors, clinics, supervisors, and field workers.
2. System health and other critical information related to the system are visible to the admin.

### **Supervisor Portal:**

1. The supervisor will keep track of the missed follow-ups. In that case, the supervisor will re-assign the follow-up.
2. Another major responsibility of the supervisor is to assign the location for the free visits to the health worker.