

Extending Care to the Home - Enabling Health Workers

CS 837: Healthcare Application Development Milestone -1

Guided By

**T K Srikanth
Prof.**

International Institute of Information Technology, Bangalore

**Jayaa Shree Laxmi Kishoore
Teaching Assistant**



**International Institute of Information Technology,
Bangalore**

Created by:

Team - 12

**Tanvi Motwani
MT2023149**

Tanvi.Motwani@iiitb.ac.in

**Arjun Gangani
MT2023153
Arjun.Gangani@iiitb.ac.in**

**Harsh Ranpariya
MT2023164
Harsh.Ranpariya@iiitb.ac.in**

**Vraj Jatin Naik
MT2023050
Vraj.Naik@iiitb.ac.in**

**Nikita Gupta
MT2023132
Nikita.Gupta@iiitb.ac.in**

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1 Problem Statement:

- **Project No – 6:**
- Field health workers visit houses and screen all members of a family using standardized questionnaire
- Those identified with mental health conditions are referred to doctor for local area
- Doctor evaluates and prescribes treatment, and any follow-up needed. Records diagnosis with ICD10 codes (entry should be simple)
- Health worker should track and complete follow-ups. App helps them with schedule, alerts etc.
- Tablet-based app for health worker. Should support offline capability
- Doc can view data of patients they have treated, as well as summary data of patients in their local area (e.g. district or taluka)
- Provides API for state level dashboard that shows data across such programs
- Multi-lingual (for field worker)

2 Actors and their Roles:

1. Admin
2. Supervisor
3. Doctor
4. Health Care Worker

Roles:

1. Admin:

- Admin will login
- On Landing screen admin can view the number of registered doctors, supervisors and health workers.
- By clicking on one of the cards, admin can view the list of registered doctors, supervisors and health workers respectively.
- Admin can add new health worker/doctor/supervisor

2. Supervisor:

- Supervisor will login
- Can view the areas that are assigned to him
- By clicking on the card of specific area, he can view the list of health workers corresponding to that area
- The list of health workers will also contain information related to whether or not the follow up has been completed.
- If there are no health workers corresponding to the given area then popup will be shown which says No data found
- Can handle missed follow ups if any by contacting health worker.

3. Doctor:

- Doctor will login
- On Landing the screen the doctor can view the list of patients that have been referred to him
- Doctor can also view bucket cards which will indicate the number of new patients that have been scheduled for appointments and total number of patients
- By clicking on one of the patients from list the demographics of patient will open on right half, where doctor can view information related to the patient
- By clicking on add/edit prescription, doctor can add details related to checkup and can upload prescription
- Doctor can schedule follow up if required
- Doctor can view dashboard which contains graphical representation of the total patients treated and corresponding to which disease
- In dashboard doctor can also view the district level statistics.
- Doctor can also view/edit his profile.

4. Field Healthcare Worker:

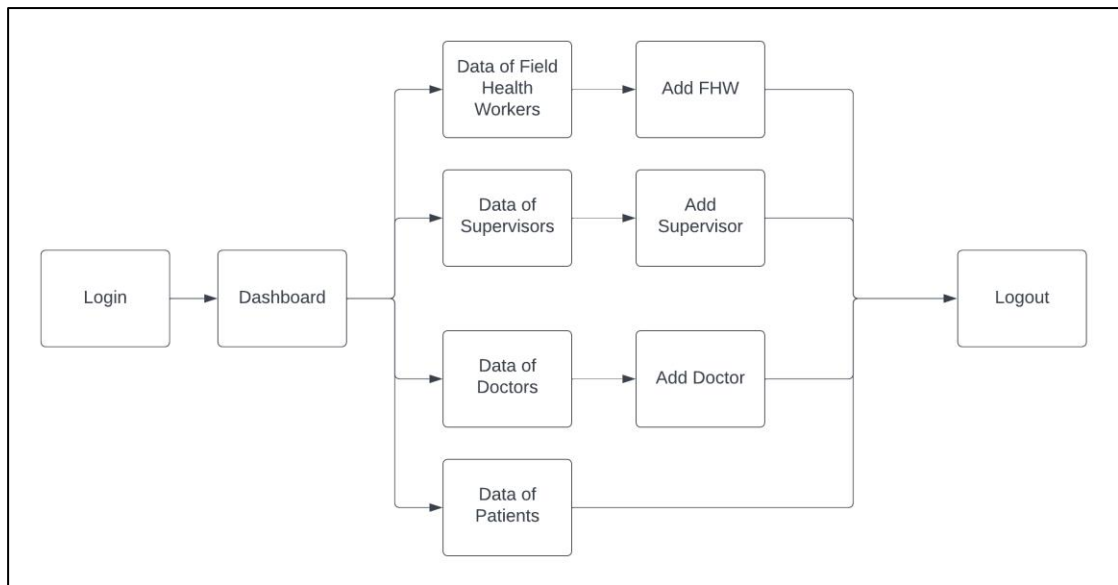
- Healthcare worker can login by username and password
- On forget password OTP verification with mobile number is provided
- On Home page he can view two options:
 - (1) Register people
 - (2) Follow ups
- On clicking register people he can register patient with all the demographics details.

- After submitting registration form, he can carry out standard questionnaire.
- After completing questionnaires, he can view results and based on that patient will be referred to doctor of local area.
- On home page by clicking on Follow up, he can view the list of follow ups and can mark done for the follow ups he has completed.
- By clicking on patient with follow up, he can view the prescription and the instruction added by doctor.
- And following that he will carry out follow up questionnaire with patient.
- Offline capabilities: Access to patient schedules for follow-ups. Questionnaire administration offline, with data synchronization upon network availability.
- Ability to view and update patient records offline.
- Notification System: Reminder notifications for upcoming follow-ups.
- Multilingual support with local languages.

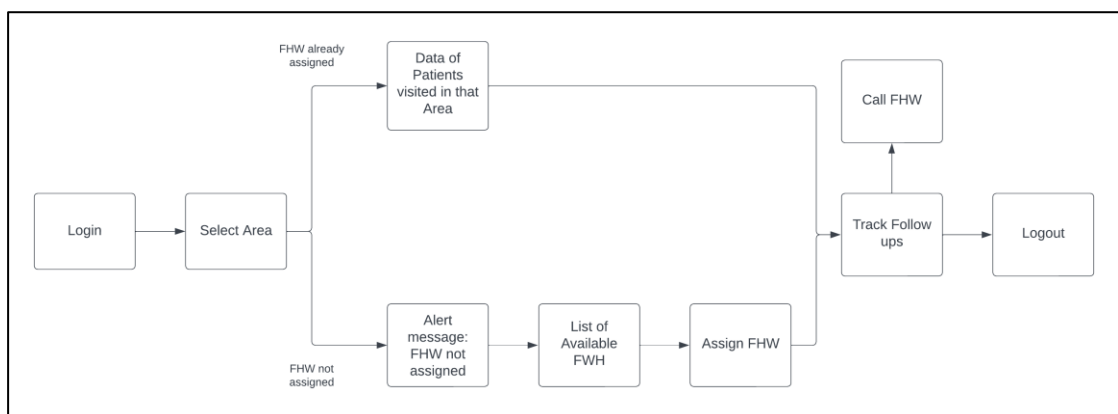
3 Diagrams

3.1 Work Flow Diagram:

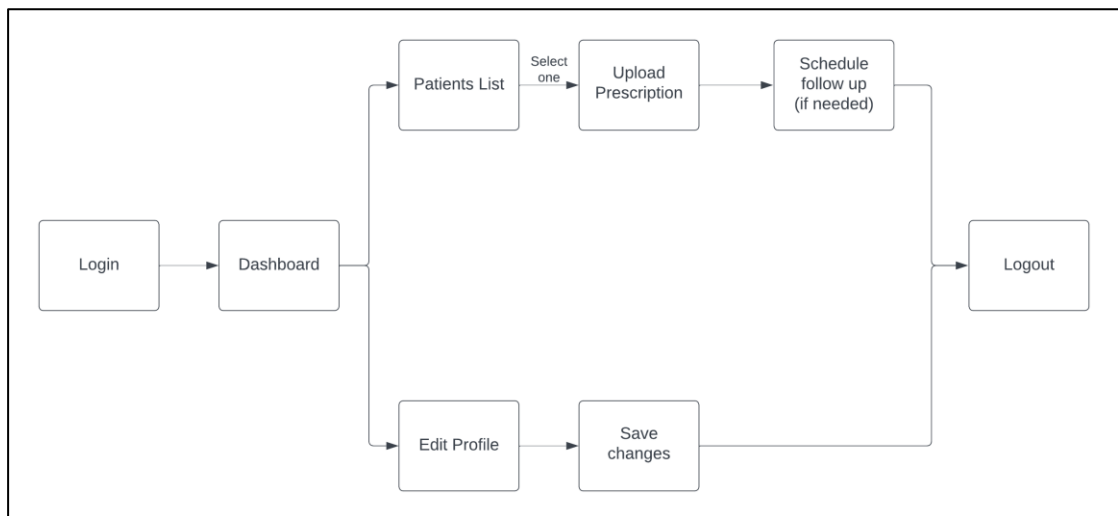
3.2.1 Admin:



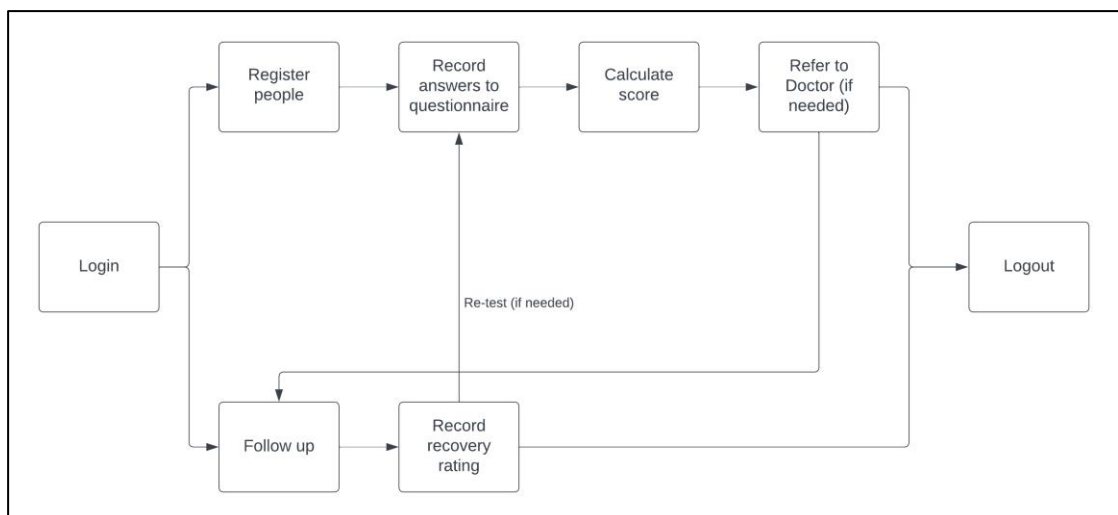
3.2.2 Supervisor:



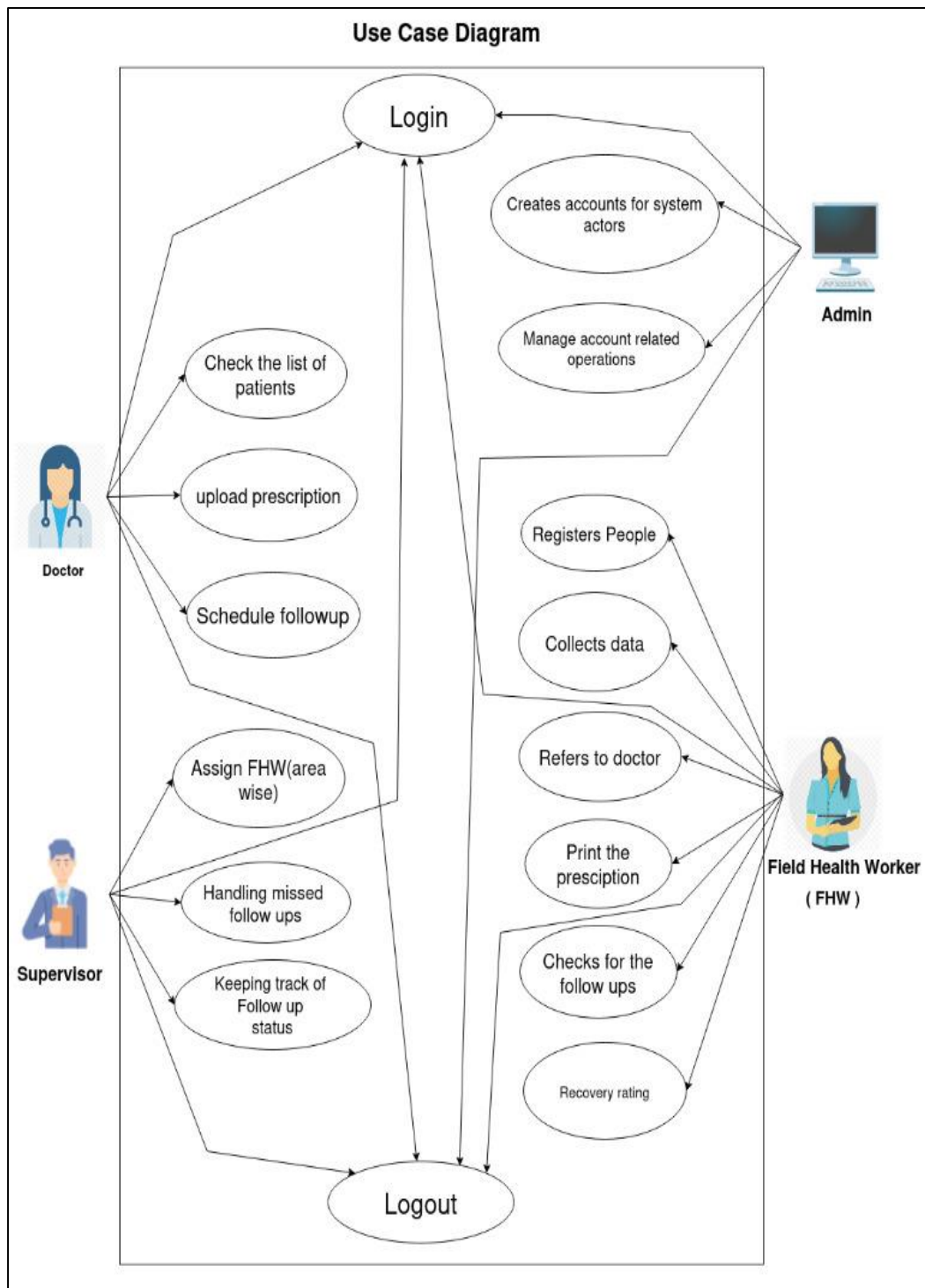
3.2.3 Doctor:



3.2.4 Healthcare Worker:



3.2 Use Case Diagram:



Primary Actors of the System	Application Functionalities
<ul style="list-style-type: none"> • Doctors • Supervisors • Field Health Workers • Admin 	<ul style="list-style-type: none"> • Offline Mode • Multi-lingual

Data View (High Level)

