**Extending Care to the Home - Enabling Health Workers**

**CS 837: Healthcare Application Development**

**Milestone -1**

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# Problem Statement:

**Project No. – 6:**

* Field Health Workers [FHW] visit houses and screens 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 ups 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.
* Doctor 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).

# Actors and their roles:

1. Admin
2. Supervisor
3. Doctor
4. Field Health 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.

1. **Supervisor:**

* Supervisor will login.
* The person can view the assigned areas.
* 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.
* Can handle missed follow ups if any by contacting health worker.

1. **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 are as follows:
  + - New Appointments: This bucket shows the list of patients that have been newly appointed to doctor
    - Ongoing: This bucket shows the list of patients that still have ongoing follow ups
    - Completed: This bucket shows the list patient whose treatment has been completed.
* So, by clicking on the completed bucket the doctor can see the list of all the previous patients that he has treated.
* By clicking on one of the patients from list, the demographics of patient will open on right half, where doctor can view the information related to the patient
* By clicking on the View Patient Details button, doctor can view patient’s medical history.
* Doctor can view patient’s medical history.
* 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.

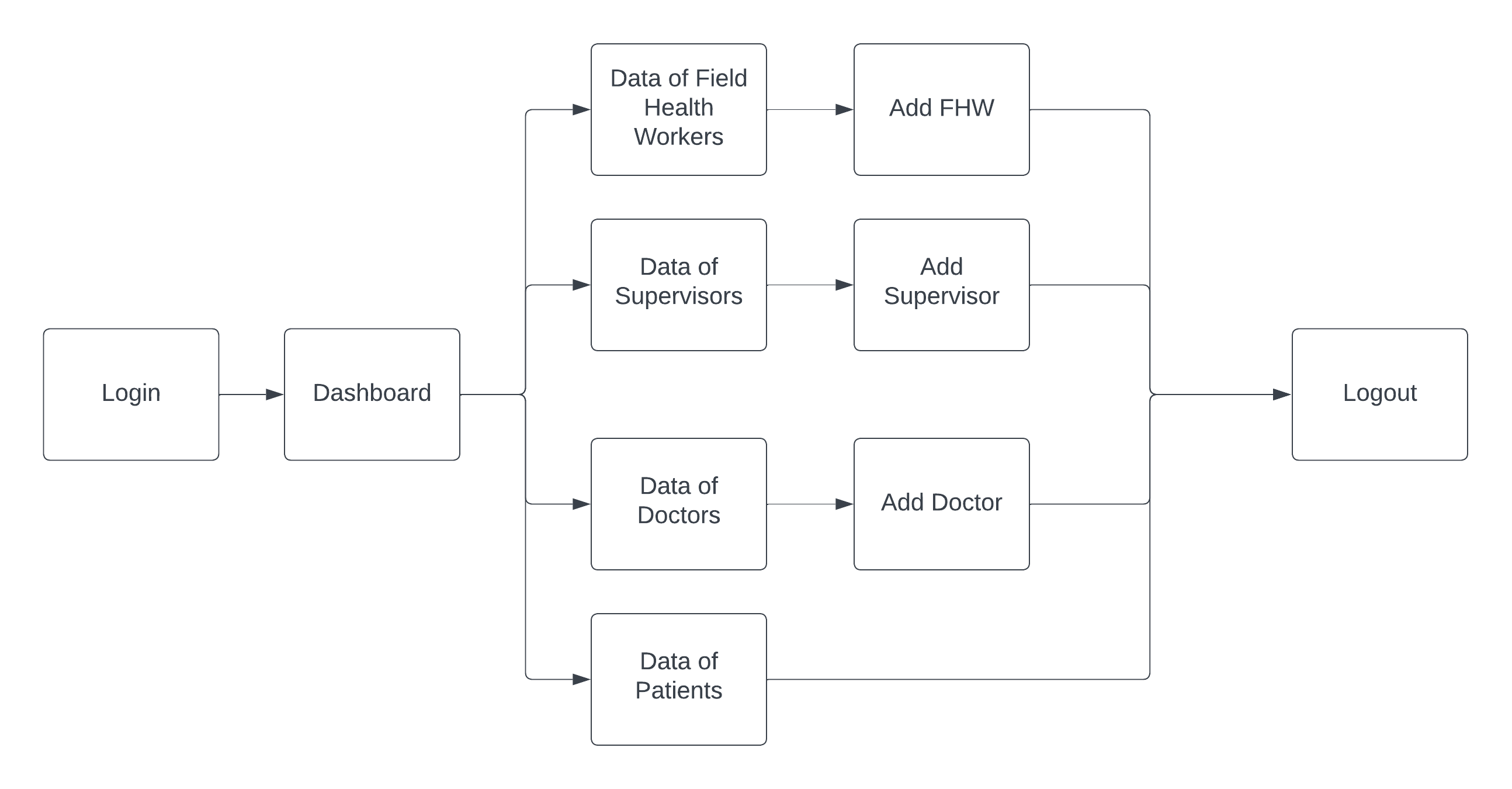
1. **Field Health Worker:**

* Healthcare worker can login by username and password.
* On forgot password, OTP verification with mobile number is provided.
* On home page he can view two options:
  + Registers people
  + Follow ups
* On clicking register people he can register patient with all the demographics details.
* After submitting registration form, he can carry out standard questionary.
* 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 questionary 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: reminders for upcoming follow-ups.
* Multilingual Support with local languages.

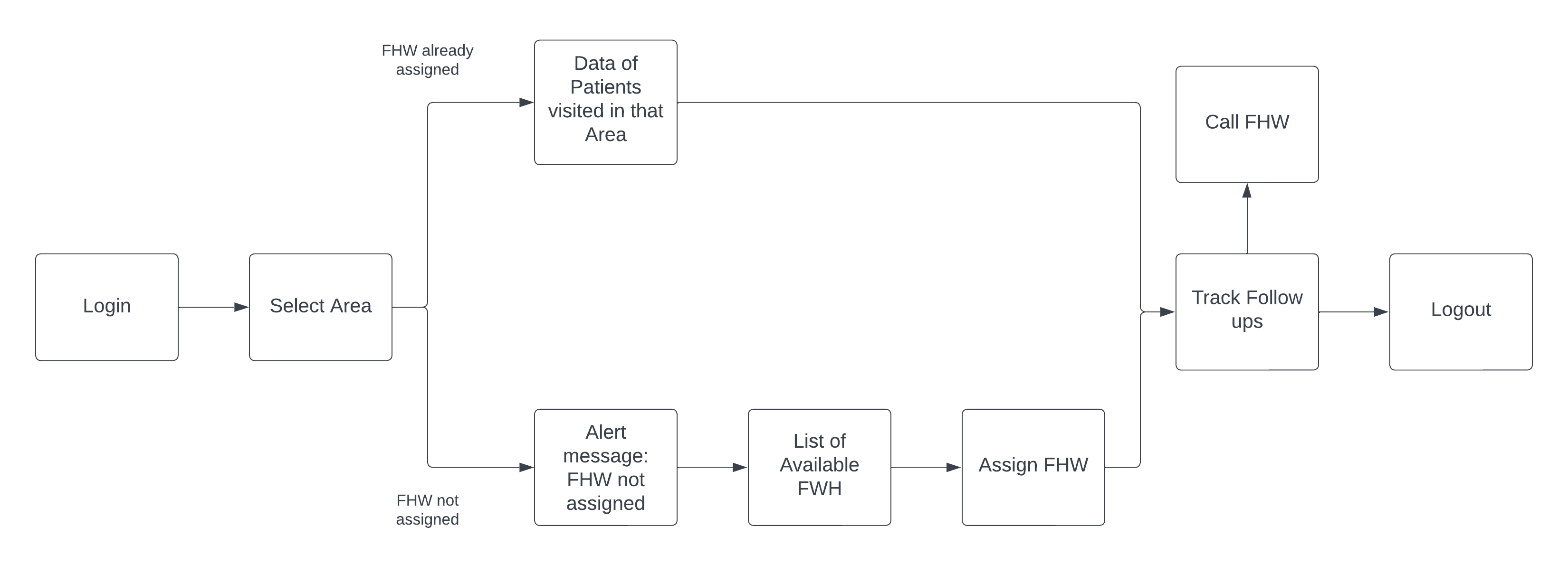
# Diagrams

**3.1 Work Flow Diagram:**

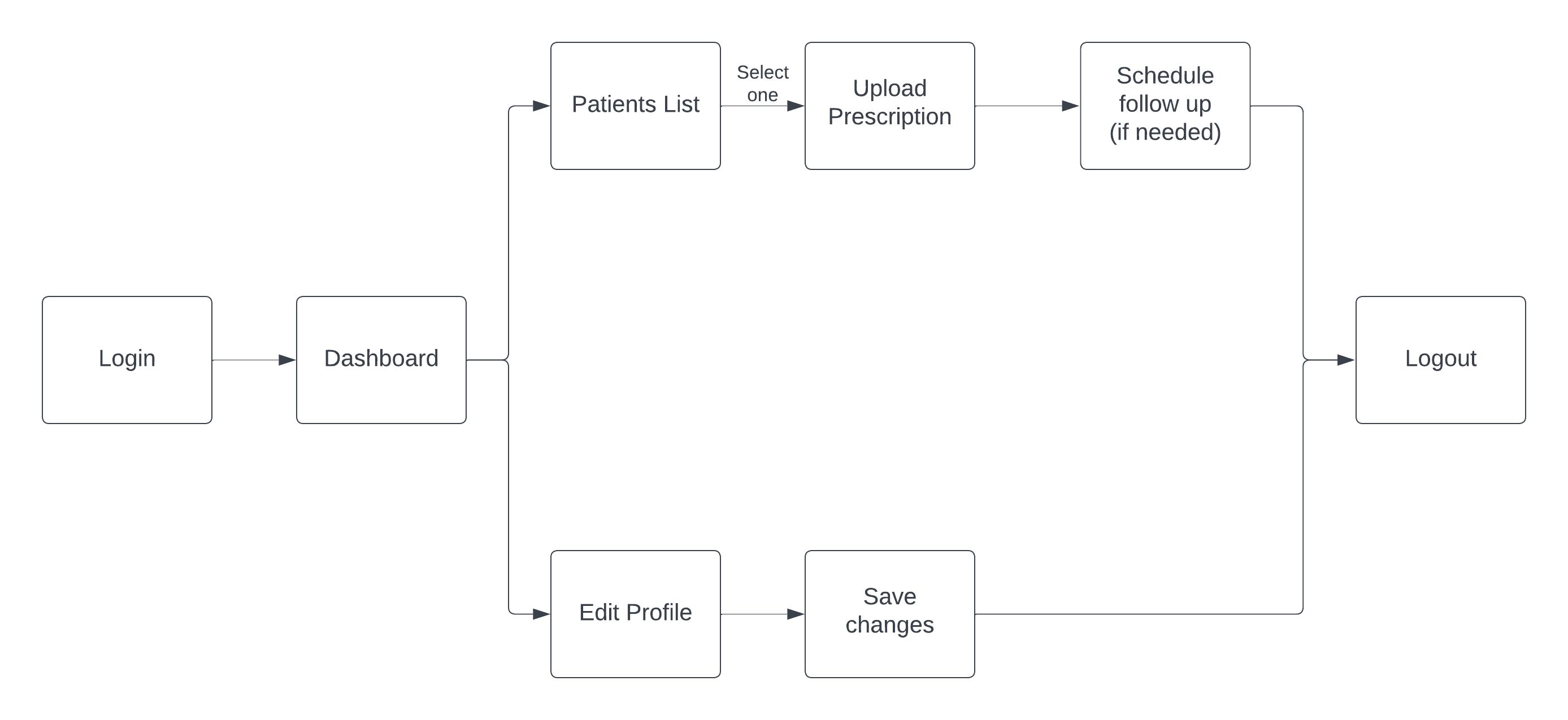
**3.1.1 Admin:**



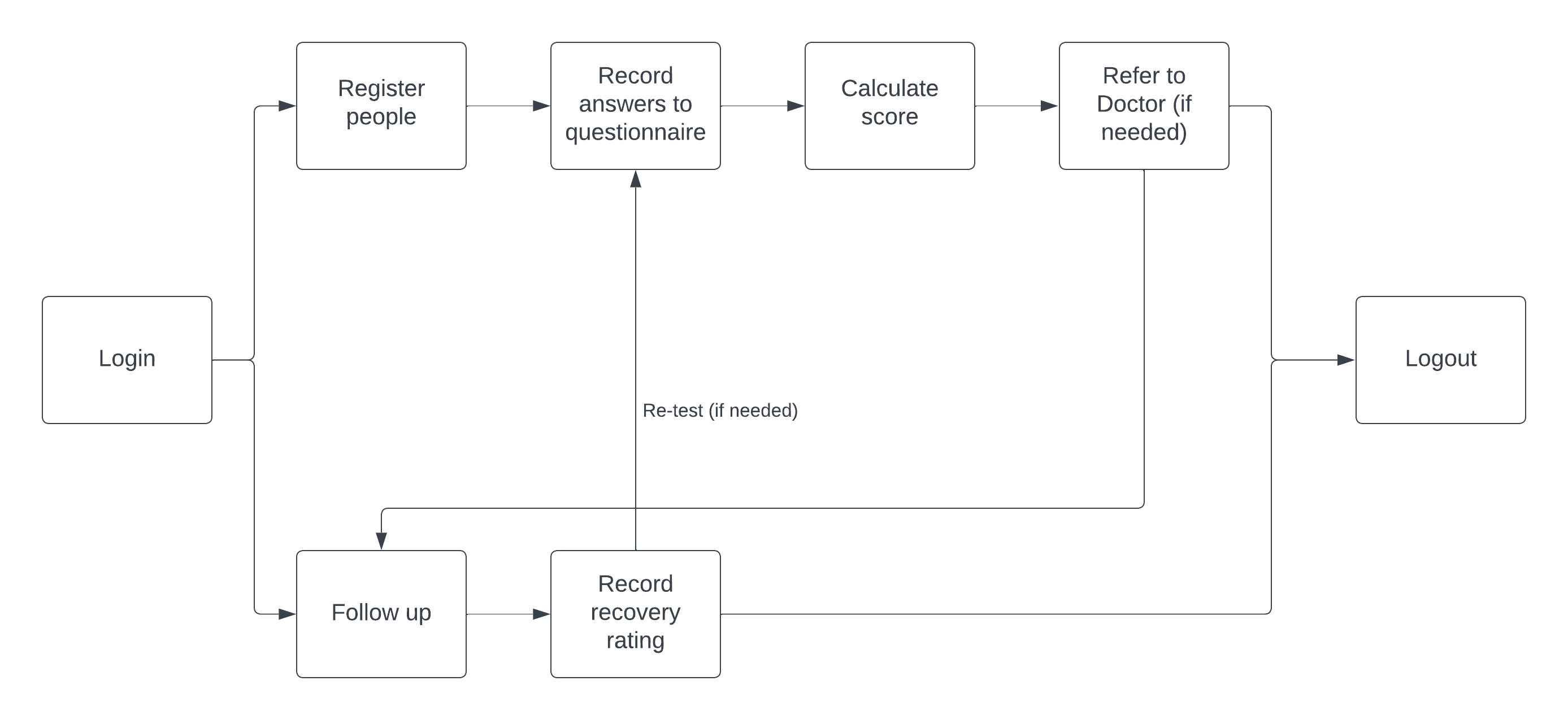
**3.1.2 Supervisor:**



**3.1.3 Doctor:**

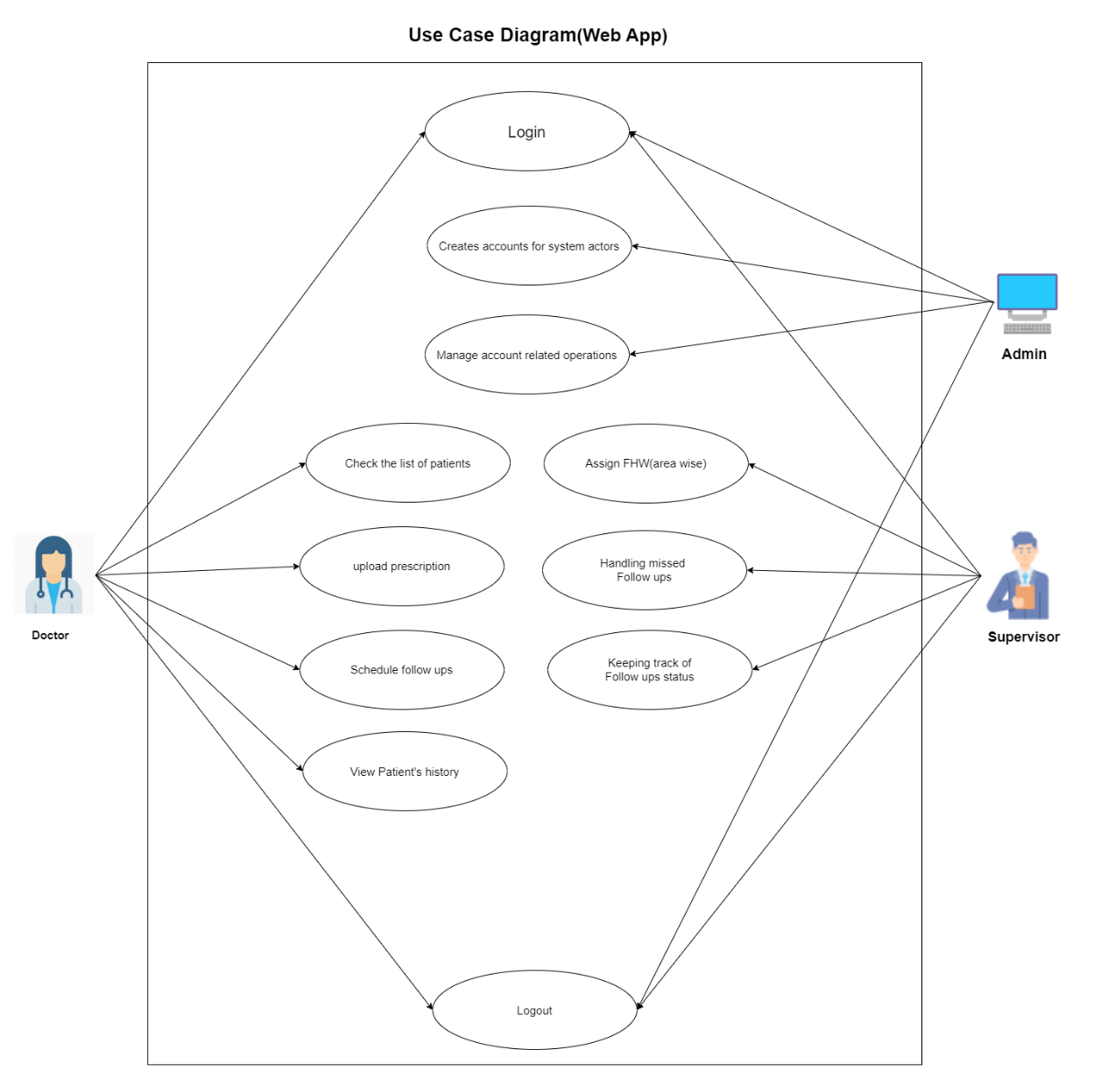


**3.1.4 Field Health Worker:**

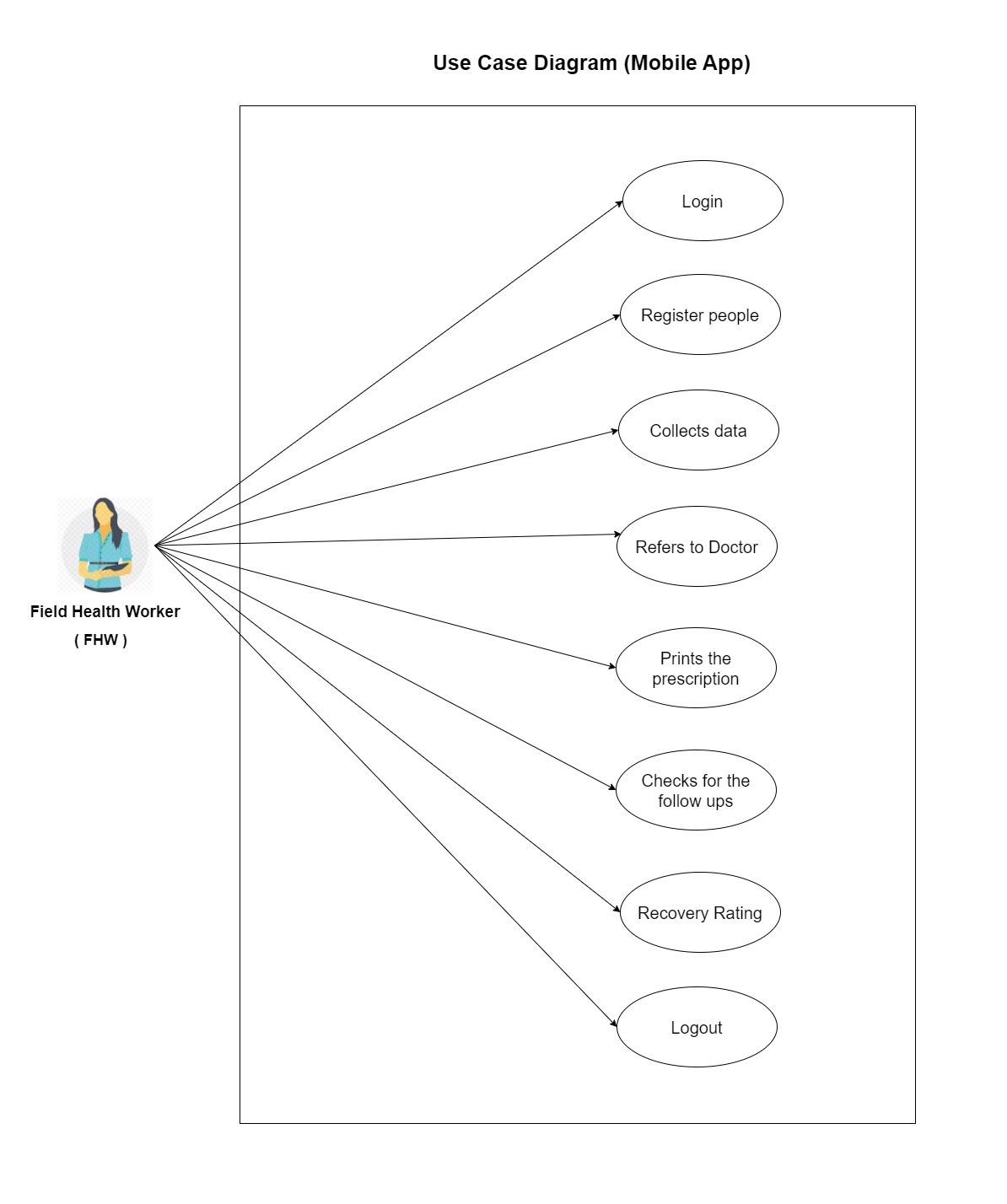


**3.2 Use Case Diagram:**

### **3.2.1 Web Application:**



### **3.2.2 Mobile Application:**



### **3.2.3 Data View:**

