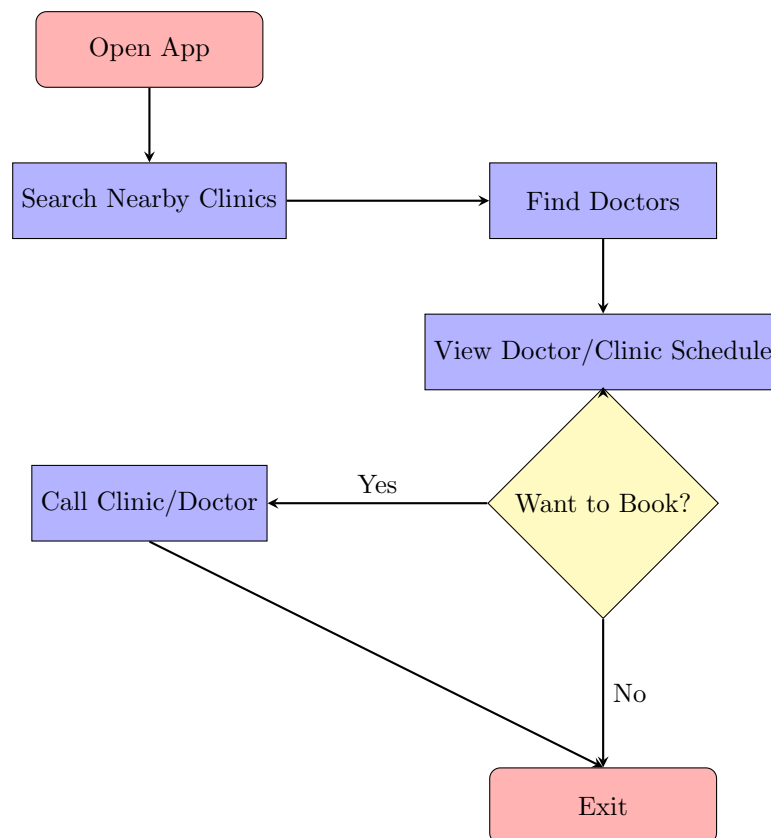# 1. User Definition

A user is a person who enters the app to access services such as searching for nearby clinics and doctors. They do not need special registration and can easily access information.

1.1. Main Tasks of User

- **Find nearby clinics** and view their locations.

- **Find available doctors** and check their specialties.

- **View schedules** of clinics and doctors.

- **Get contact numbers** to call clinics or book an appointment.

1.2. User Diagram

```
          ┌──────────────┐
          │   Open App   │
          └──────┬───────┘
                 │
                 ▼
    ┌──────────────────────┐        ┌──────────────┐
    │ Search Nearby Clinics │──────▶│ Find Doctors │
    └──────────────────────┘        └──────┬───────┘
                                            │
                                            ▼
                          ┌─────────────────────────────┐
                          │ View Doctor/Clinic Schedule  │
                          └──────────────┬──────────────┘
                                         │
                                    Yes  ◇ Want to Book?
    ┌──────────────────┐  ◀──────────────
    │ Call Clinic/Doctor │                │ No
    └─────────┬────────┘                  ▼
              │                    ┌──────────────┐
              └──────────────────▶│     Exit     │
                                   └──────────────┘
```
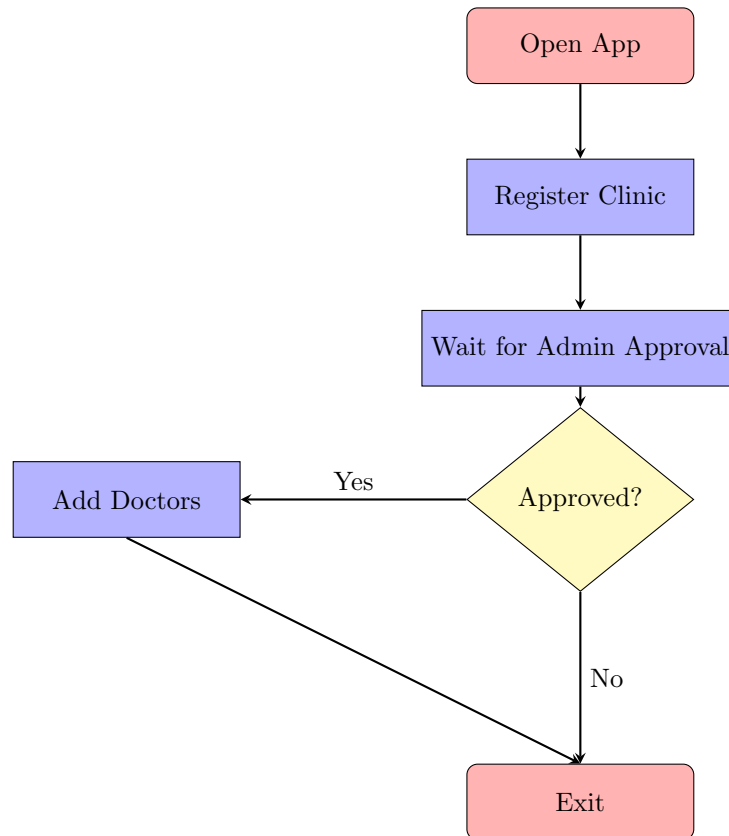
2. Clinic Definition

A clinic is an entity that registers in the app to add doctors and manage their data. When a clinic registers, it is not accepted automatically; it requires approval from the admin.

2.1. Main Task of the Clinic

- Enter clinic information during registration (name, address, phone number, specialties).

- Wait for **admin approval** before becoming active.

- Once approved, the clinic can:
    - **Add doctors** to the system.
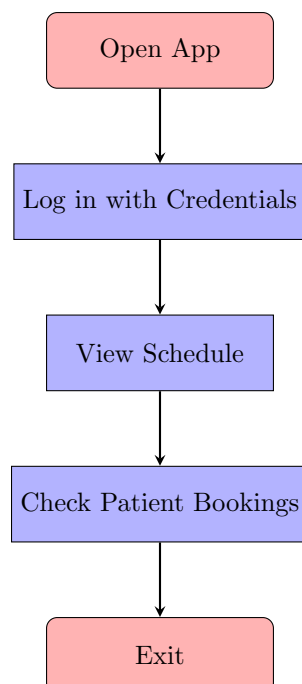   - **Provide login credentials** (email and password) to doctors.

2.2. Clinic Diagram

```
┌──────────────┐
│   Open App   │
└──────┬───────┘
       │
       ▼
┌──────────────┐
│Register Clinic│
└──────┬───────┘
       │
       ▼
┌──────────────────────┐
│ Wait for Admin Approval│
└──────────┬───────────┘
           │
           ▼
        ◇ Approved? ◇
```

Approved? — Yes → Add Doctors
Approved? — No → Exit
Add Doctors → Exit

3. Doctor Definition

A doctor is a user who receives login credentials from the clinic they work at. Doctors cannot register independently.

3.1. Doctor Tasks

- Log in using **the email and password** provided by the clinic.

- Access and manage **their schedule**.

- Receive **patient bookings** and view appointment details.

3.2. Doctor Diagram

```
┌──────────────┐
│   Open App   │
└──────┬───────┘
       │
       ▼
┌──────────────────┐
│Log in with Credentials│
└────────┬─────────┘
         │
         ▼
┌──────────────┐
│ View Schedule │
└──────┬───────┘
       │
       ▼
┌──────────────────────┐
│ Check Patient Bookings │
└──────────┬───────────┘
           │
           ▼
      ┌─────────┐
      │  Exit   │
      └─────────┘
```

4. Admin Definition

The admin is responsible for accepting or rejecting newly registered clinics. They have a separate application to manage the system.

4.1. Admin Tasks

- Review **new clinic registration requests**.

- Accept or reject clinics based on the provided information.

- Ensure the smooth operation of the platform.

4.2. Admin Diagram