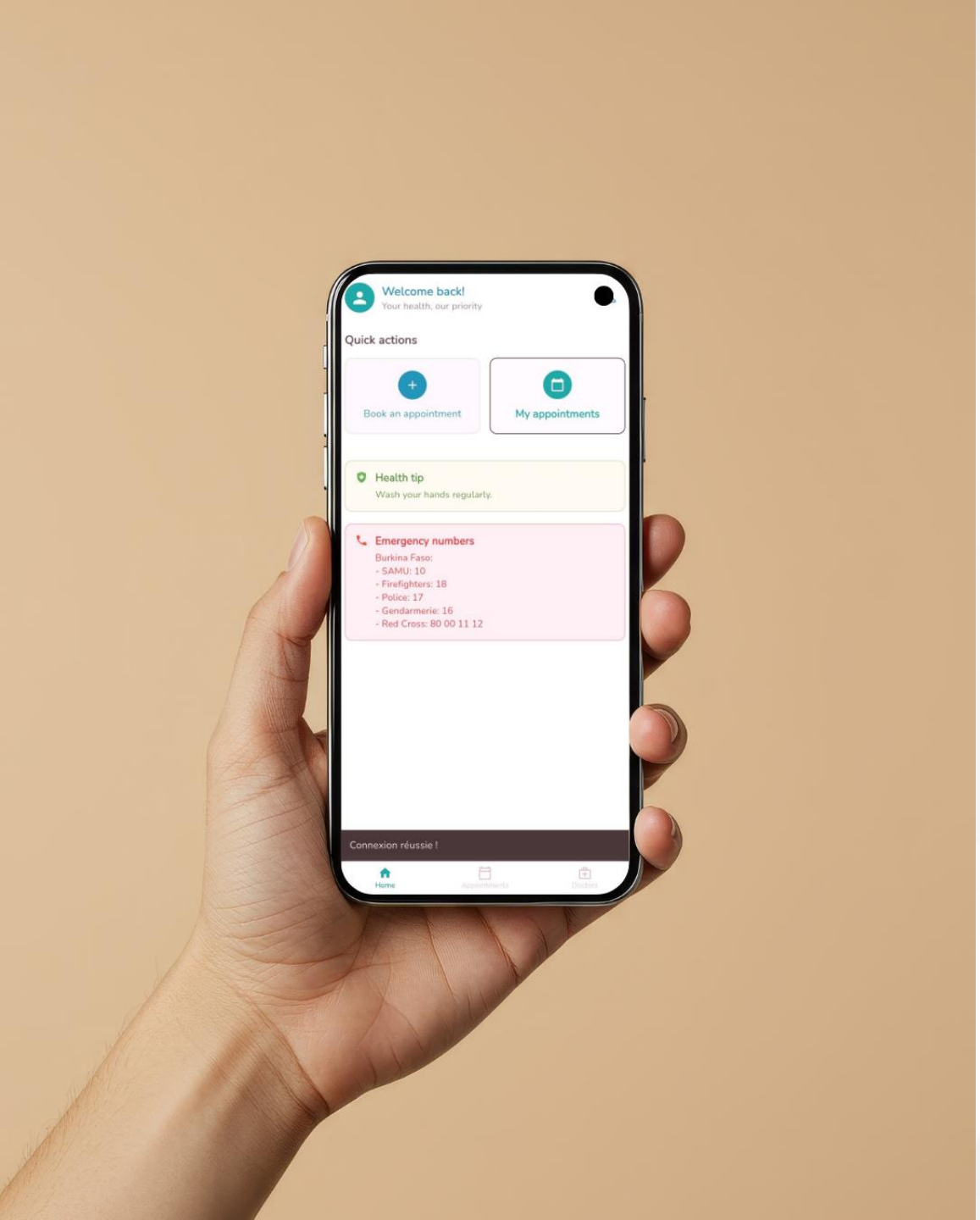


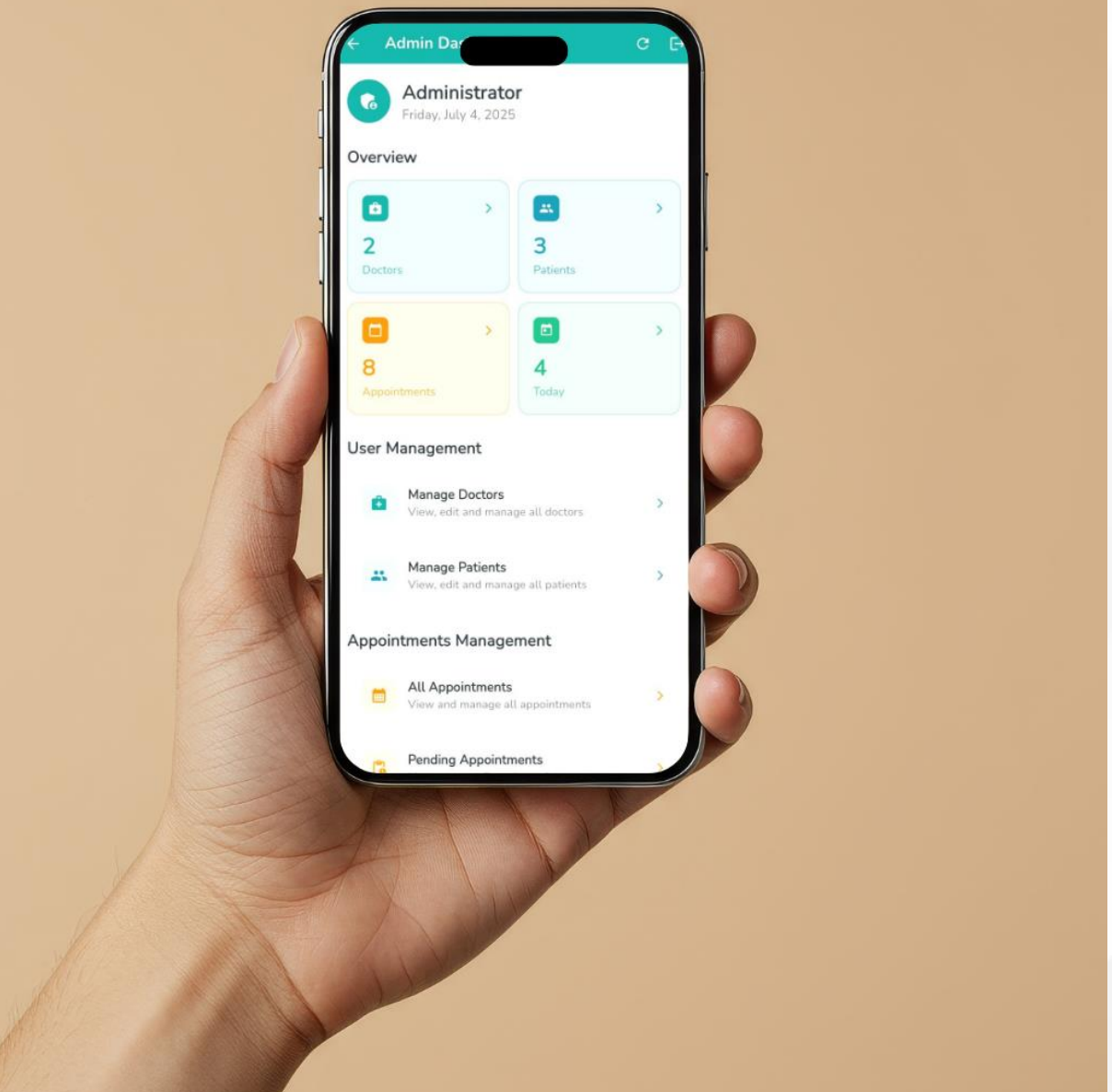
USER MANUAL

Caretime

Medical appointment booking/scheduler application

By:

- GUISSOU Ali
- MADIEGA Aida
- OUGDA Ibrahim



Caretime

Caretime is an intuitive and secure mobile application that makes it easier to schedule medical appointments. It is aimed at three types of users:

•Patients , who can book and track their appointments.

•Doctors , who can manage their availability.

•Administrators , who oversee the entire system.

By:

- GUISSOU Ali
- MADIEGA Aida
- OUGDA Ibrahim

Guide by role

👨‍⚕️ Patient

Available features:
- Create an account with email and password
- Log in to the app
- Search for doctors by specialty
- Book an appointment according to available slots
- View appointment history
- Cancel an upcoming appointment

Key steps:
1. Register via the "Create an account" form
2. Log in
3. Choosing a doctor
4. Select an available slot
5. Confirm the reservation
6. Track appointments from the home page

🩺 Doctor

Available features:
- Log in with your credentials
- Define your available slots for consultations
- View booked appointments
- Accept or decline an appointment
- View patient profiles (basic information)

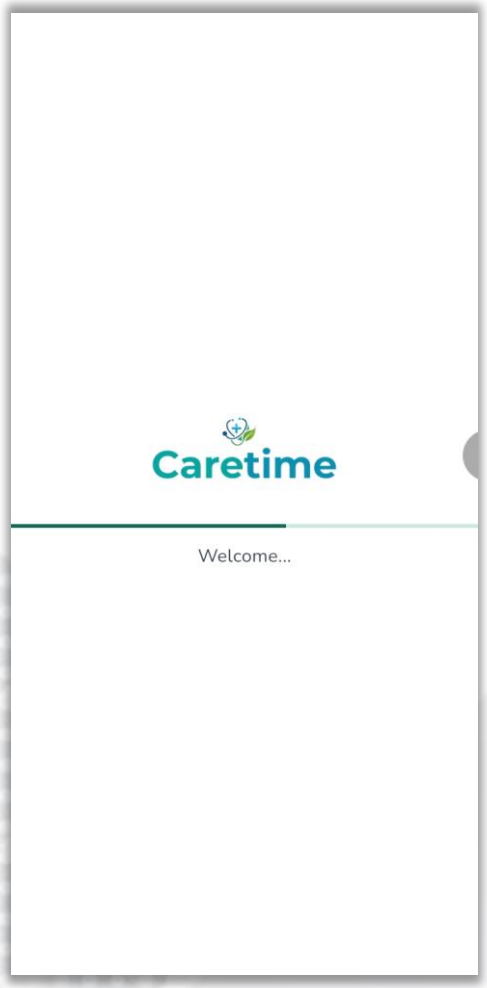
Key steps:
1. Log in
2. Access the “My Availability” tab
3. Add or modify time slots
4. Access the “My appointments” tab
5. Manage reservations

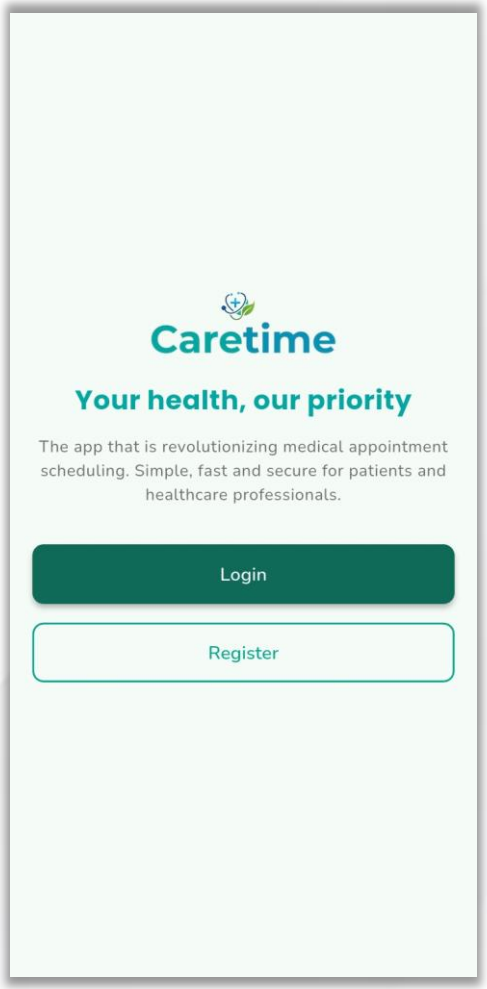
🛠️ Administrator

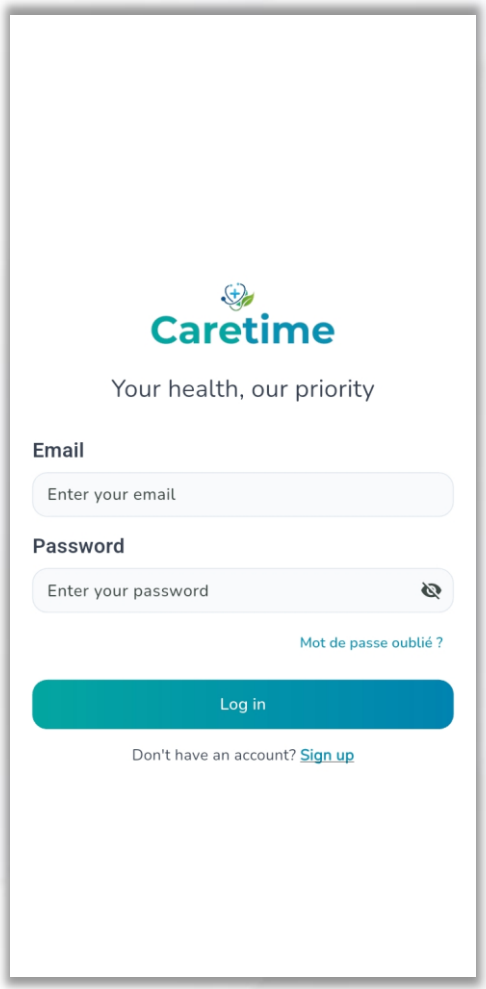
Available features:
- Log in with an admin account
- View the list of all users (patients and doctors)
- Delete or disable user accounts
- View general system statistics

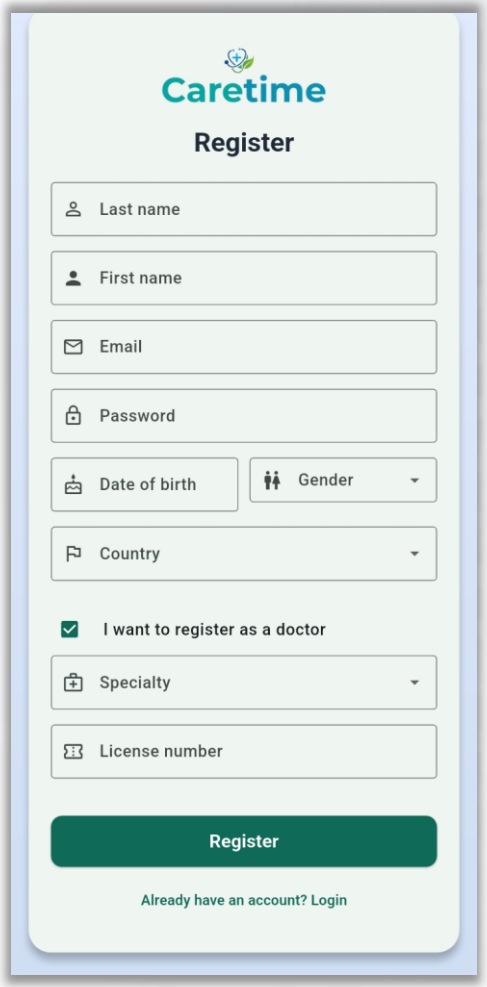
Key steps:
1. Log in
2. Access the “Doctor or Patient Management” tab
3. Filter by role, status or name
4. Deactivate or delete a user with one click

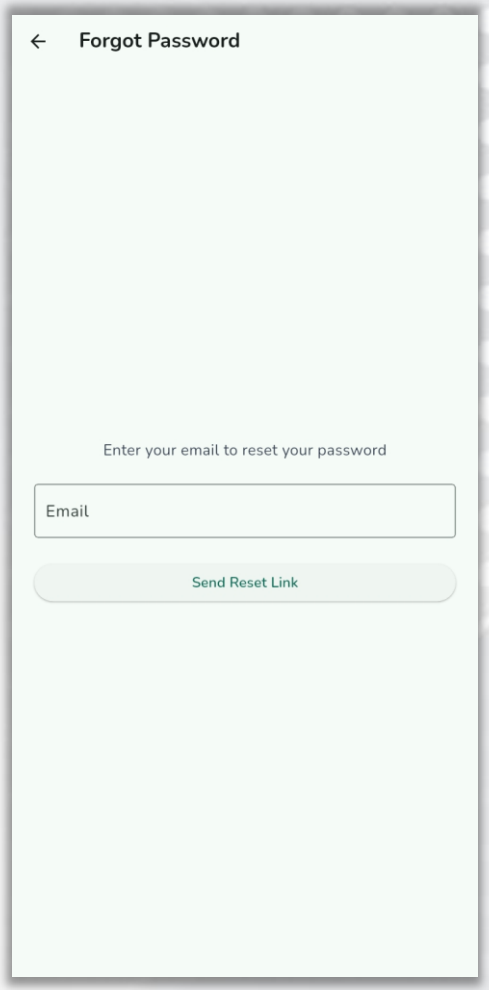
Screenshot – AUTHENTICATION PAGE



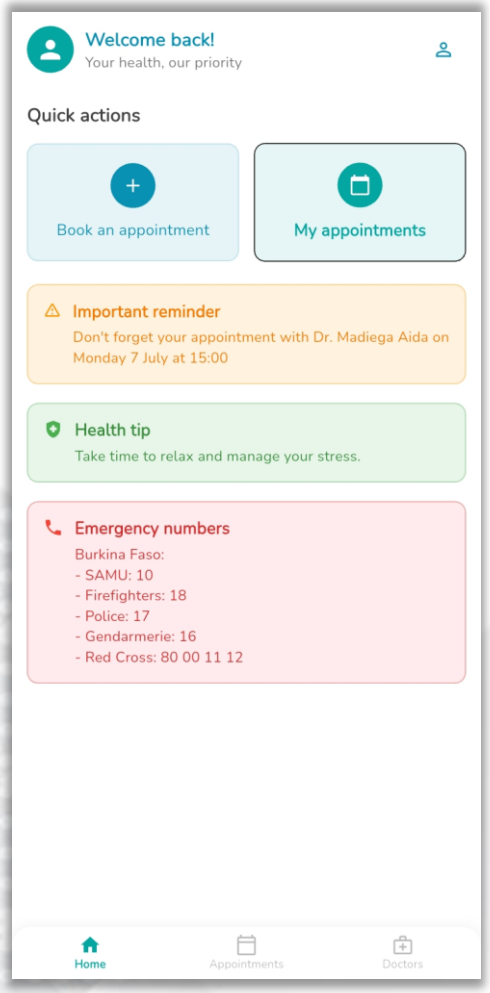


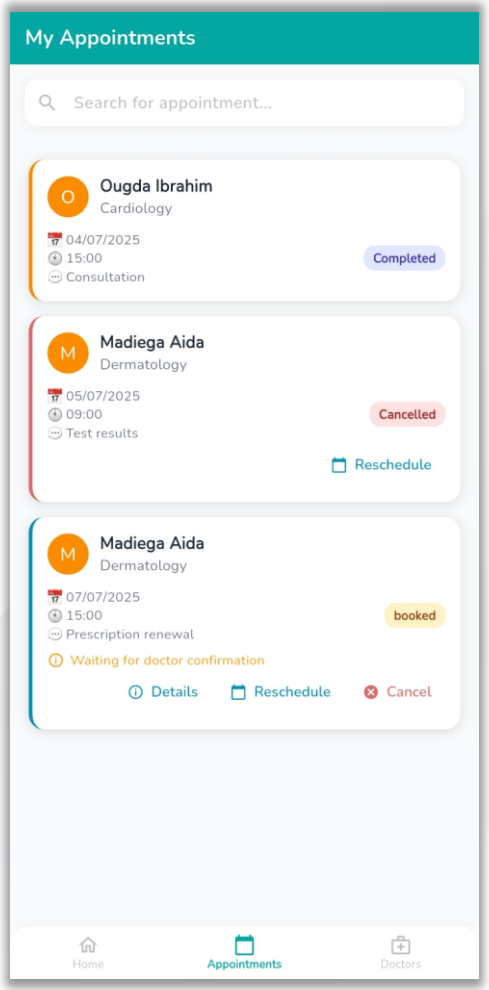


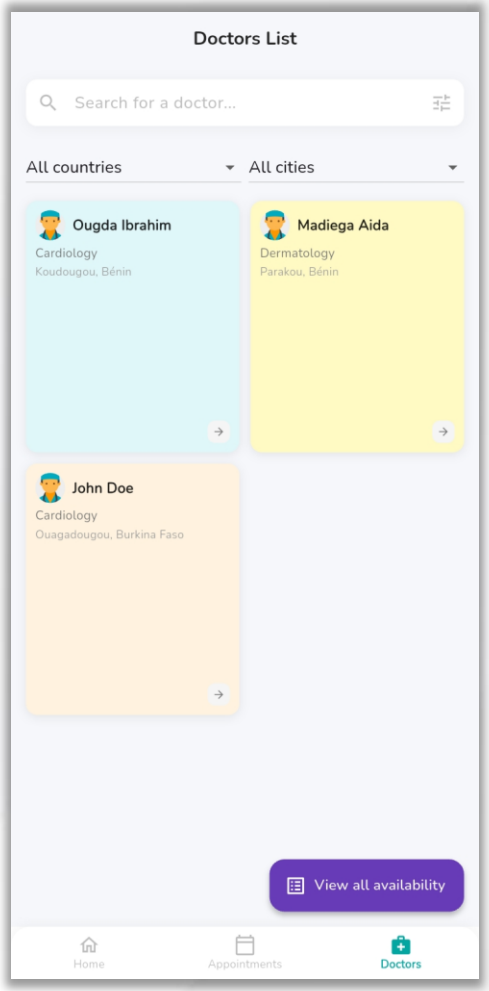


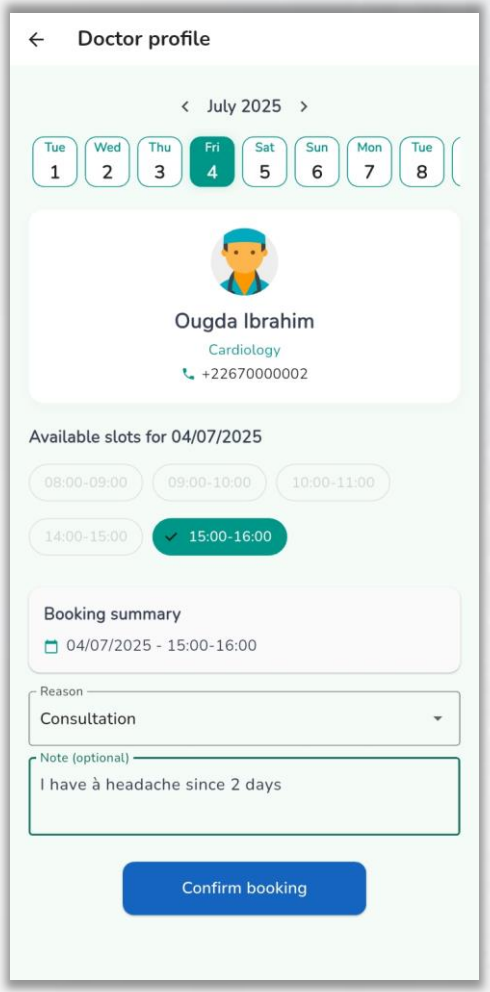


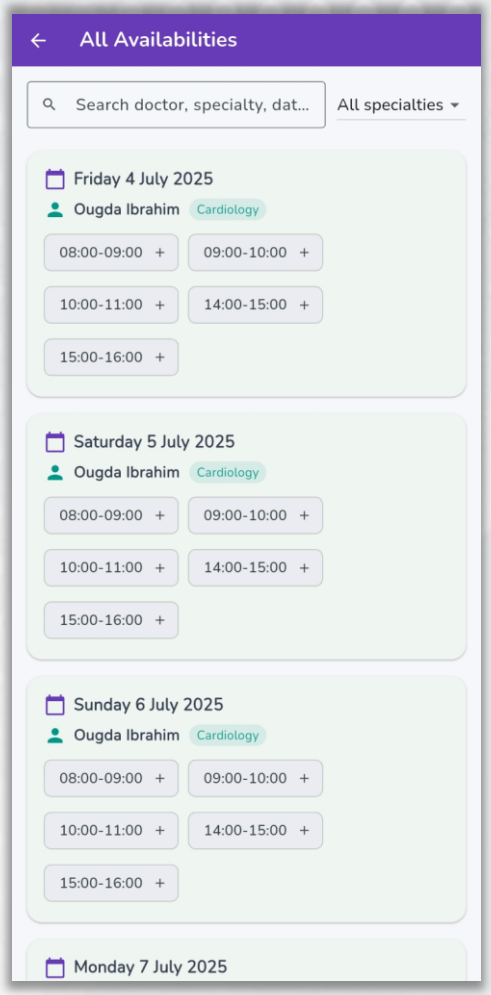
Screenshot – PATIENT PAGE



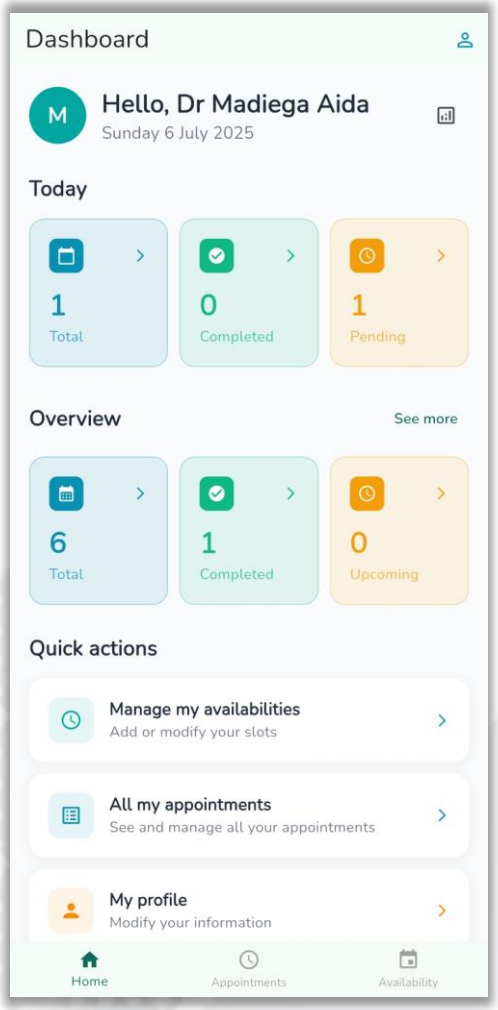


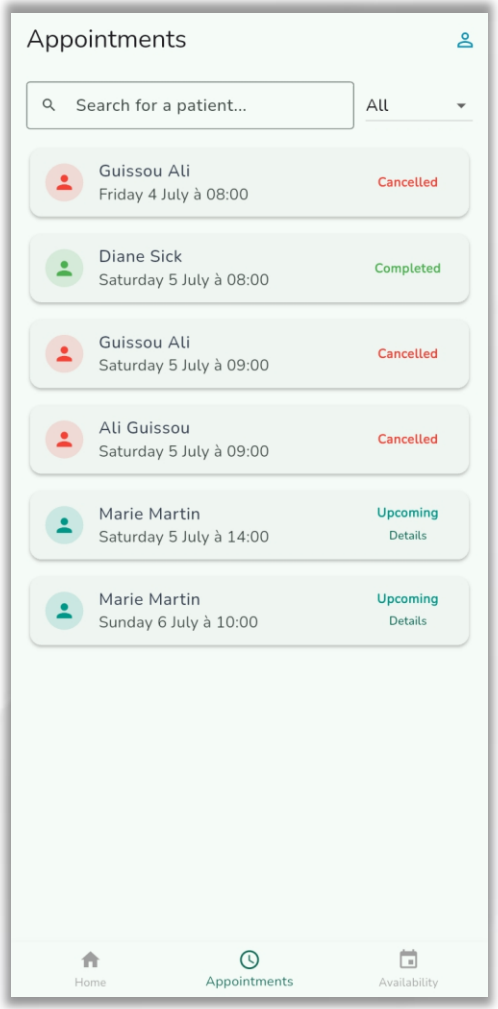


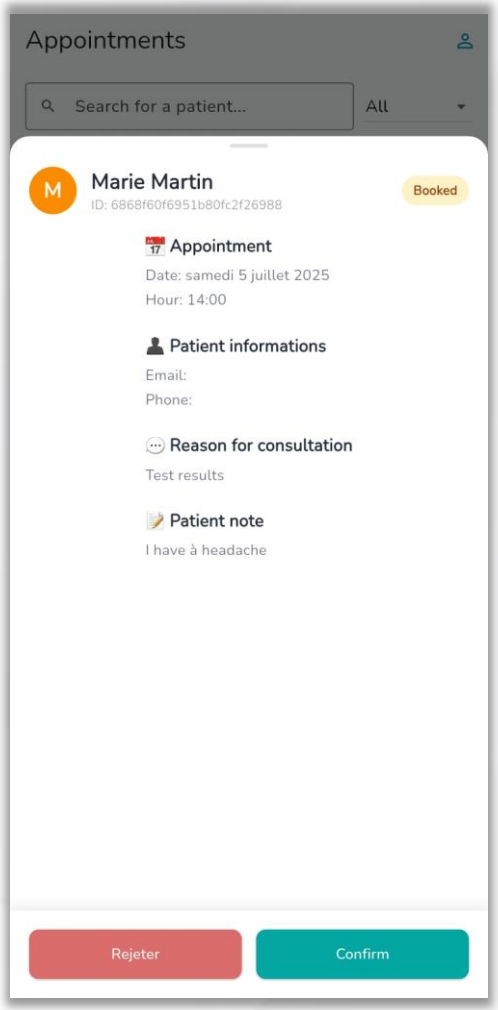


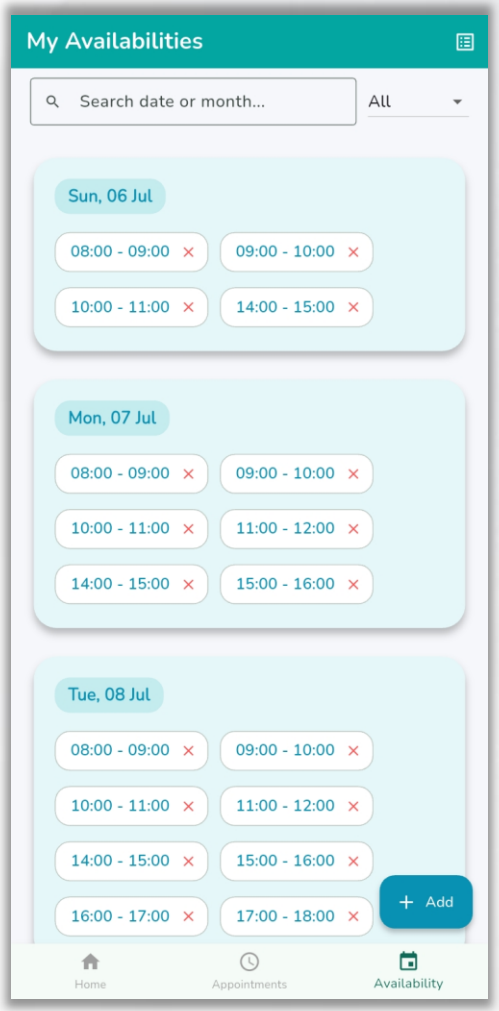


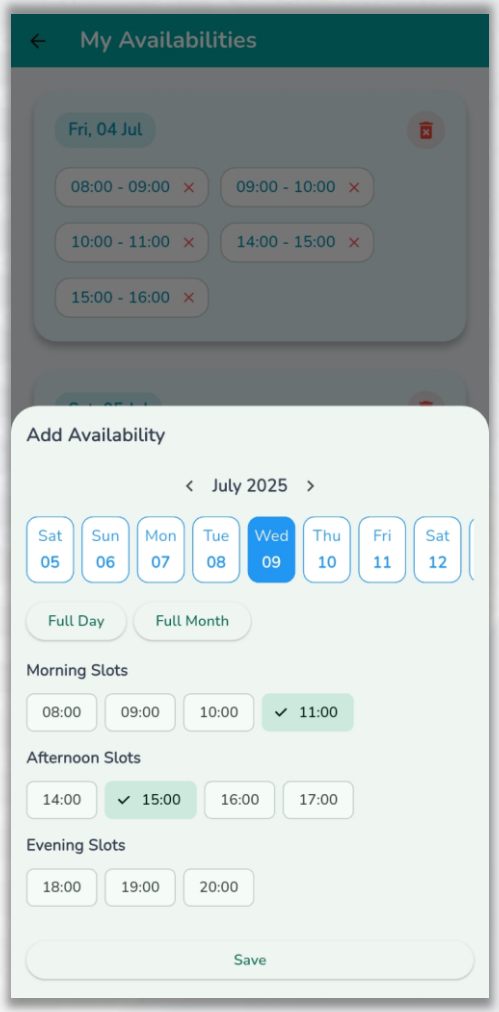
Screenshot – DOCTORS' PAGE



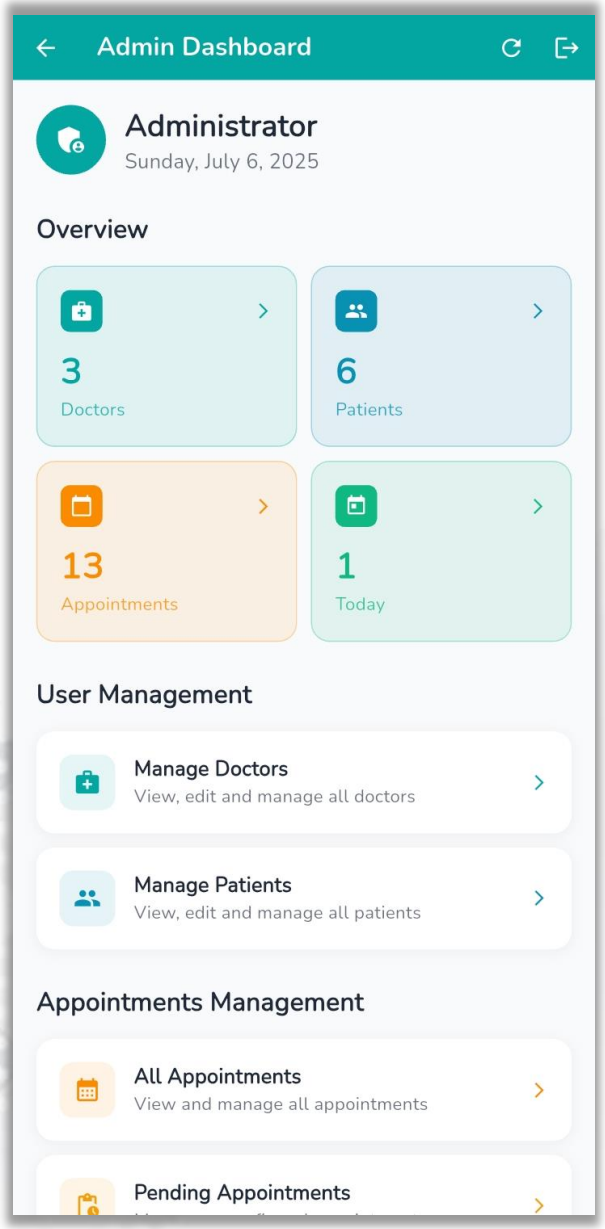


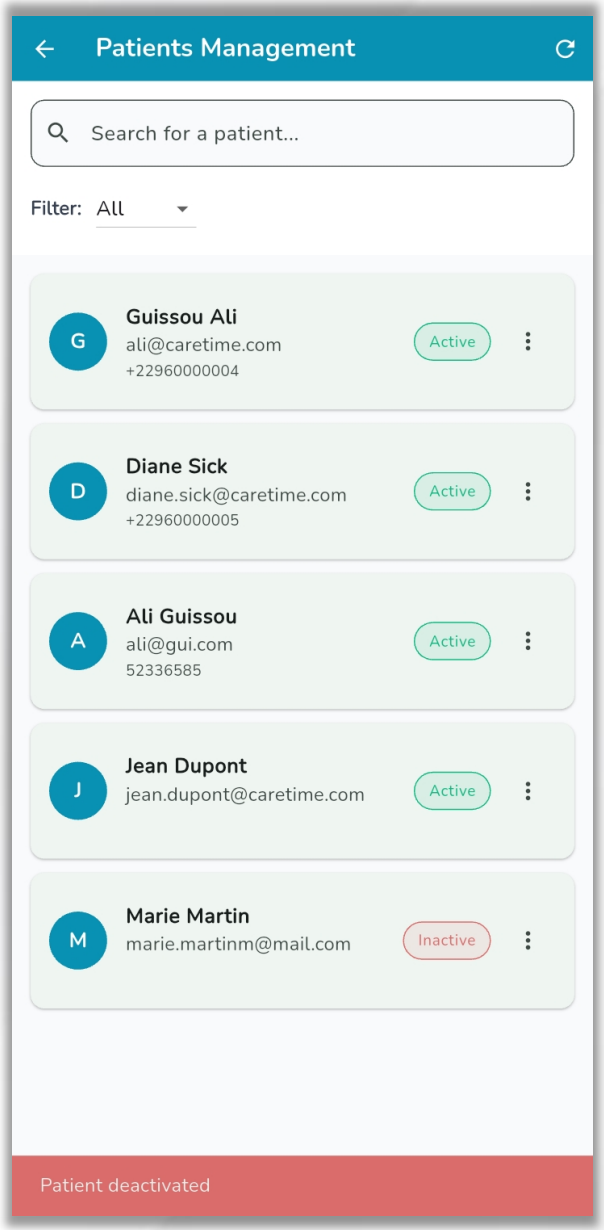


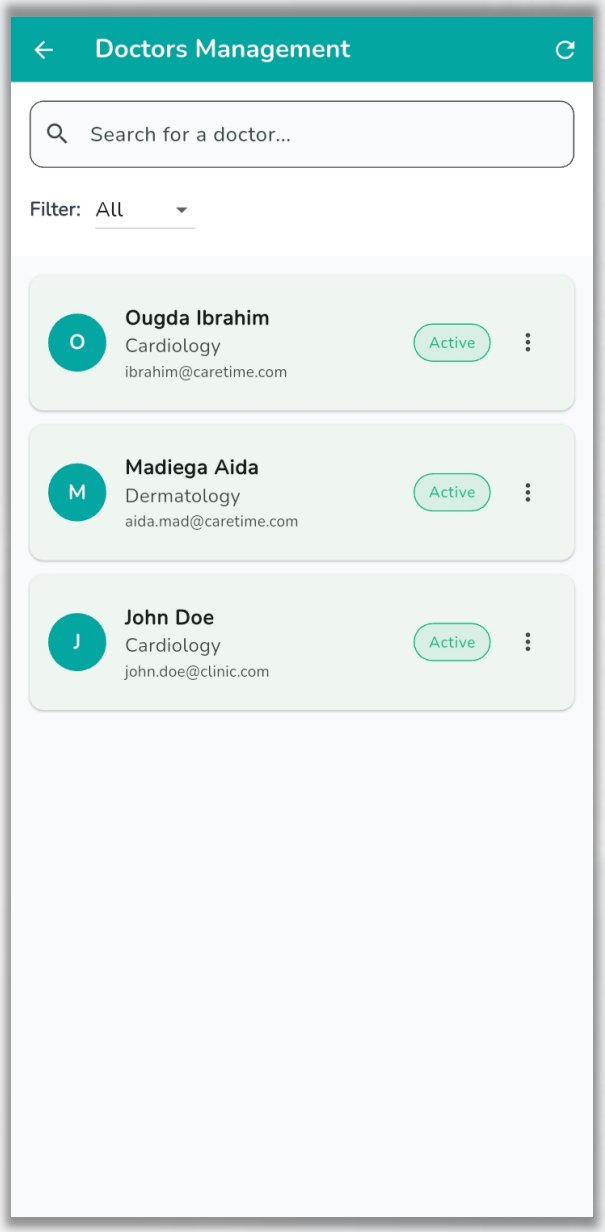




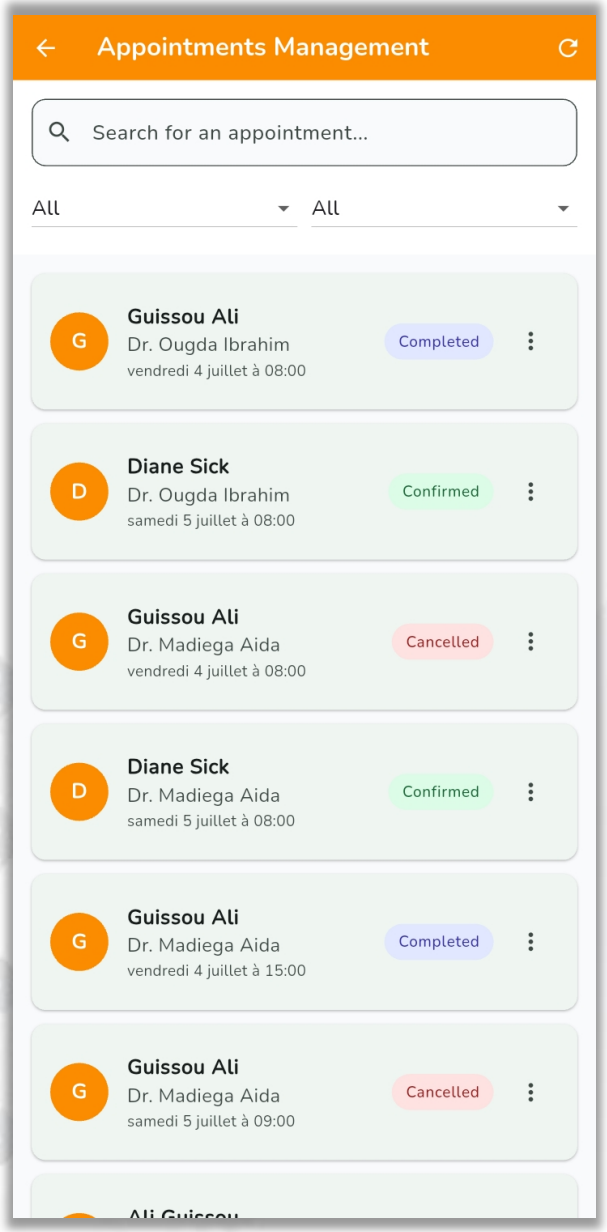
Screenshot – ADMINISTRATORS PAGE

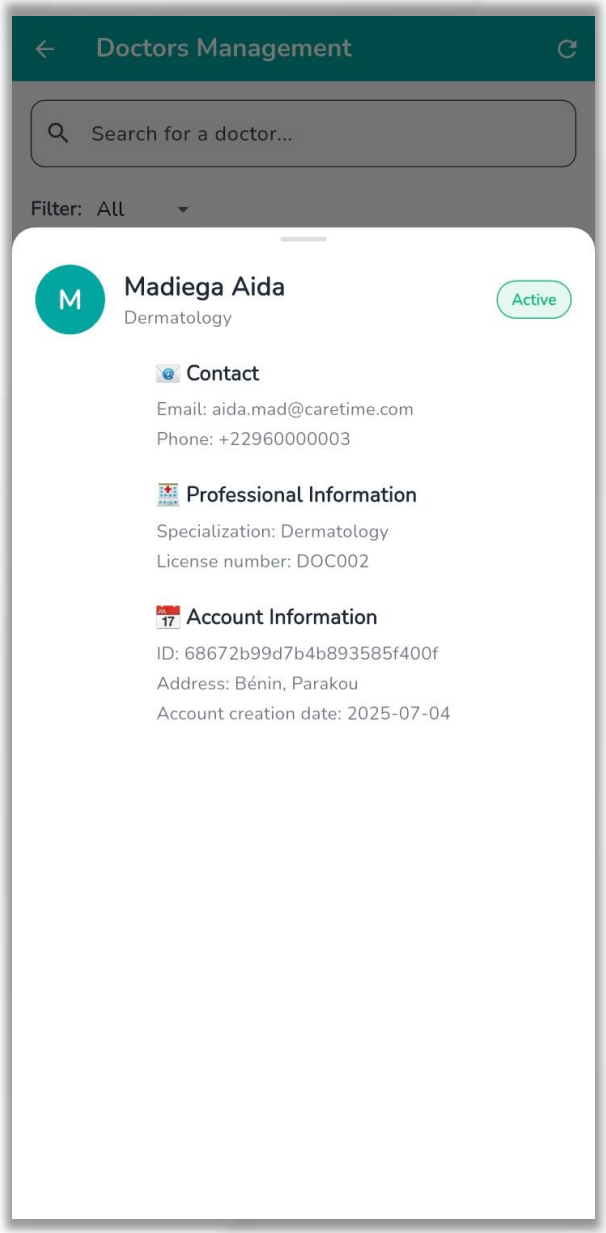


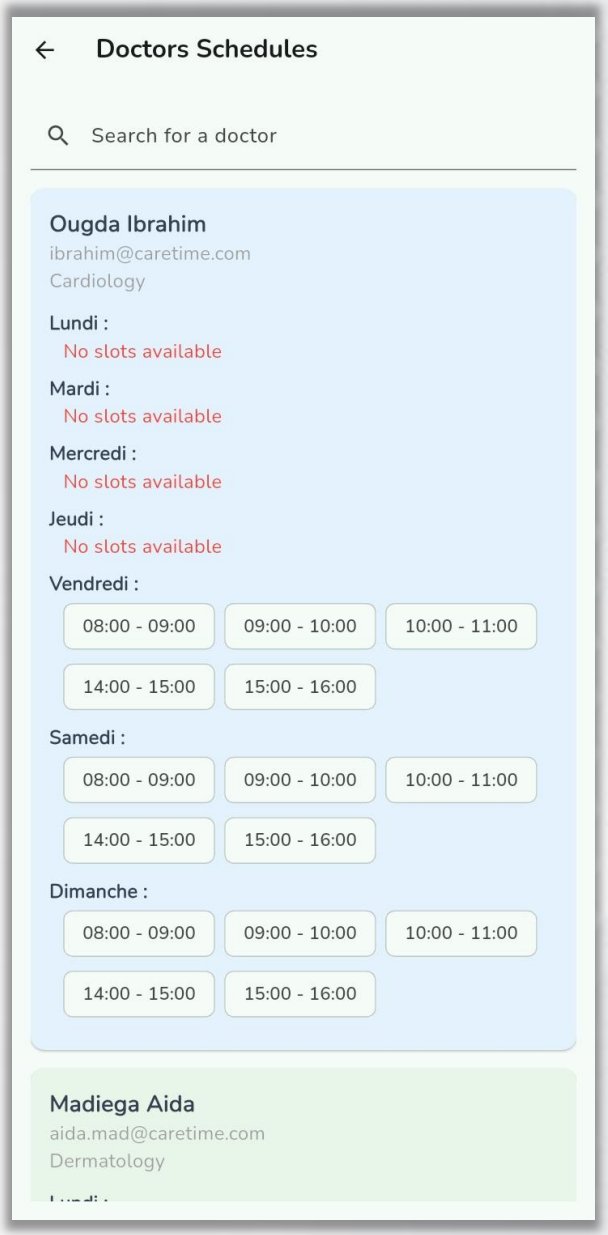




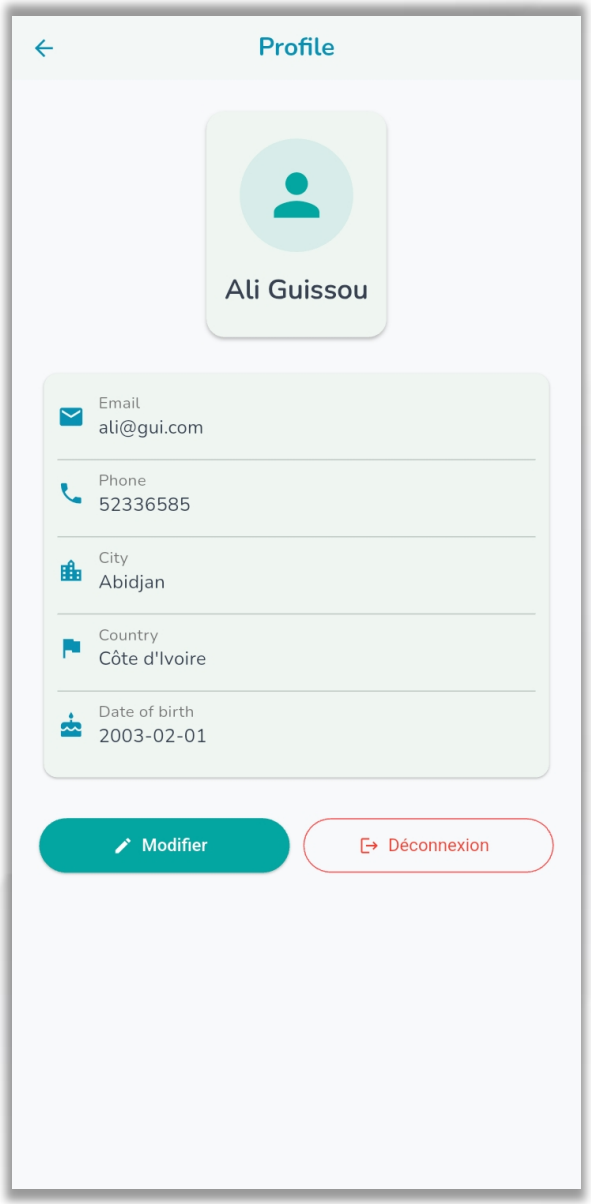
Screenshot – ADMINISTRATORS PAGE

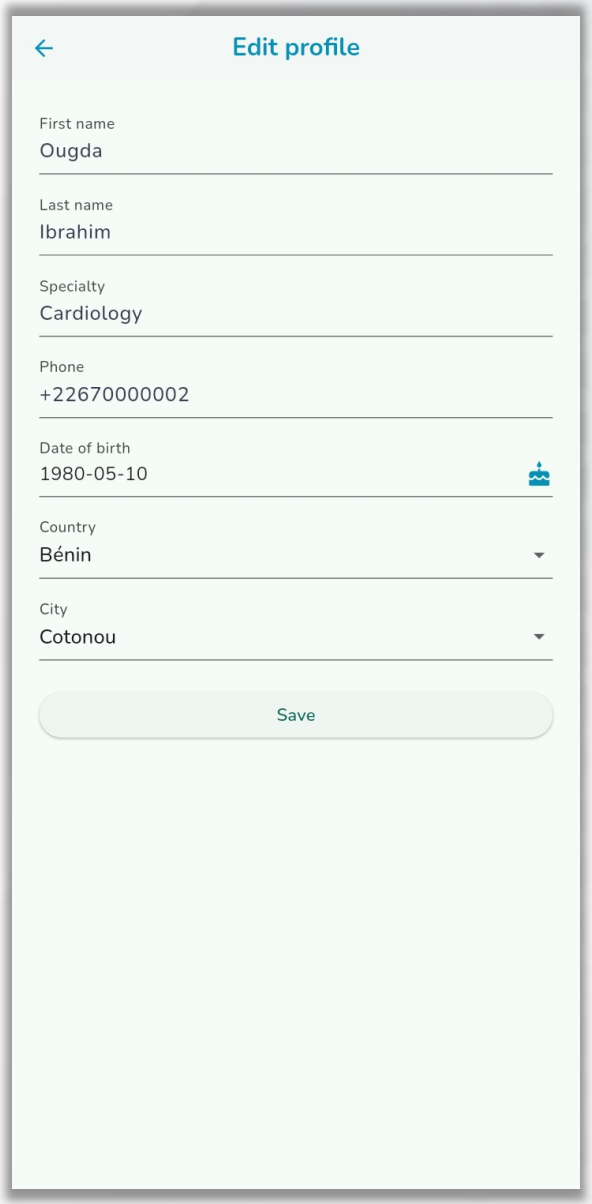






Screenshot – PROFILE PAGE





Installation procedure

Backend (Node.js/Express API)

1- Clone the project

```
git clone https://github.com/Dayende-ib/clinic-appointment-scheduler.git
```

2- Install dependencies

```
cd backend
npm install
```

3- Configure environment variables:

```
cp . env.example .env
```

4- Launch the server

```
npm run dev
```

Mobile application (Flutter)

1- Open the **/mobile folder** in VS Code or Android Studio

2- Install dependencies

```
flutter pub get
```

3- Modify the URL in the `api_config.dart` file replace localhost with the IP of your machine

```
const String baseUrl = "http://10.0.2.2:5000";
```

3- Launch the server

```
flutter run
```

Test with Postman

1. Open Posman t
2. **postman / caretime_collection.json**
3. Log in or register via **/ auth / register** Or **/ auth /login**
4. Copy the returned token
5. Test other endpoints with **Authorization :** Bearer <token>

Technical information

- **Languages** :
  - Backend: JavaScript (Node.js, Express)
  - Frontend: Dart (Flutter)
  - Database: MongoDB
- **roles** : patient, doctor , admin
- **Authentication** : via JWT, secured server-side
- **Middleware** : role-based access control

Environment variables (.env)

```
PORT=5000
MONGO_URI=mongodb://localhost:27017/caretime
JWT_SECRET= supersecurekey
```

Test data

Seed files are provided in the /backend/seeders folder to create:

- 1 admin
- 2 patients
- 2 doctors
- available slots

Annexes

- ERD diagram: /documentation/ERD_caretime.png
- Presentation slides / presentation / caretime_slides.pptx
- Postman Collection

Contact

Project carried out by:

- **Ibrahim Dayende OUGDA**
- **Aïda Justine MADIEGA**
- **Ali GUISSOU**

Training: **Computer Science**

Burkina Institute of Technology – Academic year **2024–2025**