

Mobile Doctor Appointment App - Documentation

This document provides an overview of the different pages in the Flutter-based "MediBook" application, describing the functionality and features of each page.

Login Page

Purpose: Allows users to log in to the app using their email and password.

Features:

- A logo and title of the app at the top for branding.
- Two input fields for email and password.
- Validation for email format (e.g., must contain "@" and a valid domain...etc) and password (minimum 6 characters...etc).
- "Sign In" button to log in.
- A link to the signup page for new users.
- Displays error messages if login fails.



The screenshot shows the MediBook login page. At the top is a green header with the 'MediBook' logo and a group of medical professionals. Below the header is the word 'Login'. There are two input fields: 'Email' with a placeholder 'Please enter your email' and 'Password' with a placeholder 'Please enter your password'. A green 'Sign in' button is at the bottom. At the very bottom, there is a link: 'Don't have an account? Sign Up'.



This screenshot shows the same MediBook login page but with sample data entered. The 'Email' field contains 'user@gmail.com' and the 'Password' field contains six dots. The 'Sign in' button is still green. The bottom link 'Don't have an account? Sign Up' is also present.

Signup Page

Purpose: Enables new users to create an account.

Features:

- Input fields for name, email, phone number, and password.
- Password confirmation field to ensure the user types their password correctly.
- Validations for all fields to ensure proper input.

Name: Must not be empty and should contain only alphabetic characters.

Email: Must follow a proper email format, such as `example@domain.com`. **Phone**

Number: Accepts only numeric values and ensures it has a minimum and maximum length (e.g., 10 digits).

Password: Requires a minimum length of 6 characters and must include a combination of letters and numbers for added security.

Confirm Password: Ensures the value matches the password entered.

□ "Sign Up" button to create the account.

- A link to the login page for existing users.

← MediBook



Sign Up

User

User@gmail.com

123456987

.....

← MediBook

Sign Up

User

User@gmail.com

123456987

.....

.....

Sign up

Already have an account? [Sign in](#)

← MediBook

Sign up

Name

Name cannot be empty

Email

Email cannot be empty

Phone Number

Phone number cannot be empty

Password

Password cannot be empty

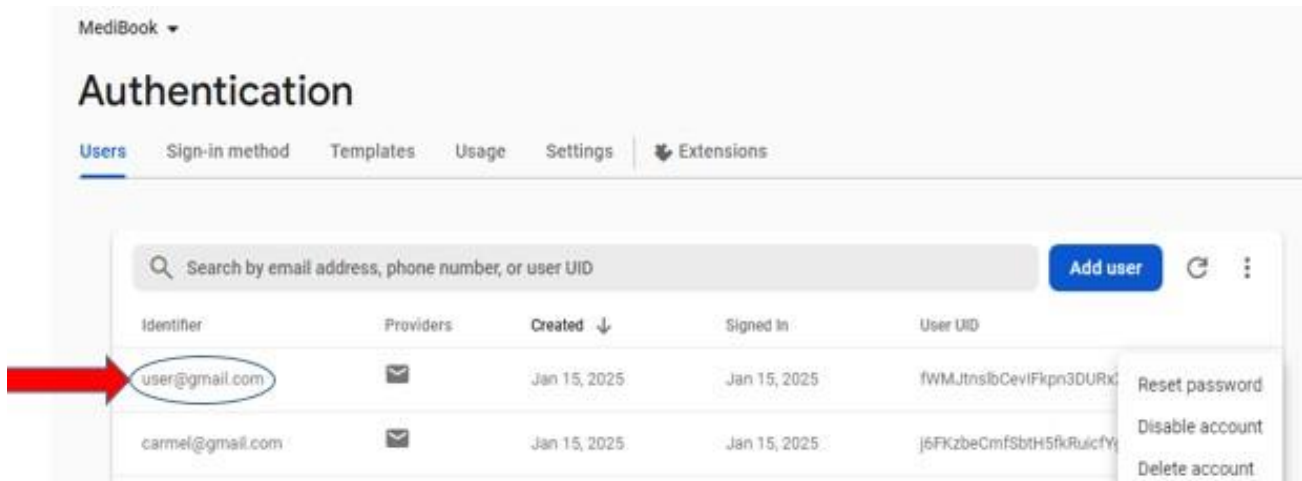
Confirm Password

Password cannot be empty

Sign up

Database Integration After User Signup

When a new user signs up in the MediBook application, their details are securely stored in the Firebase Authentication database.

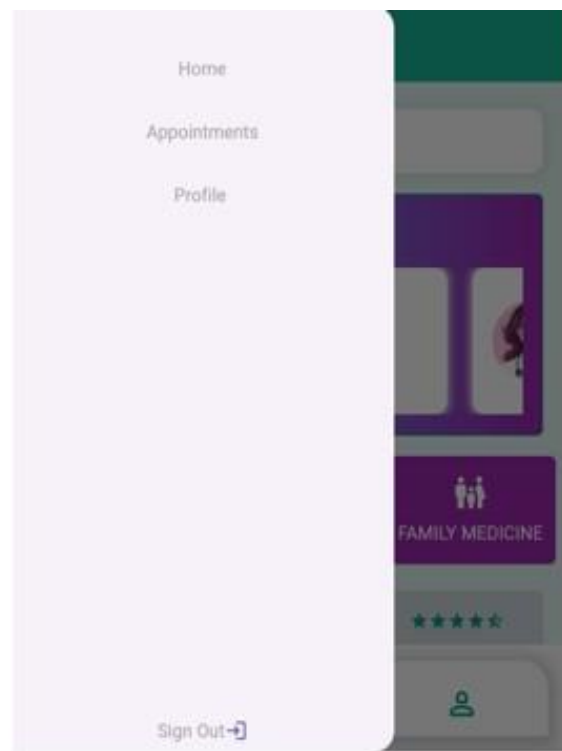
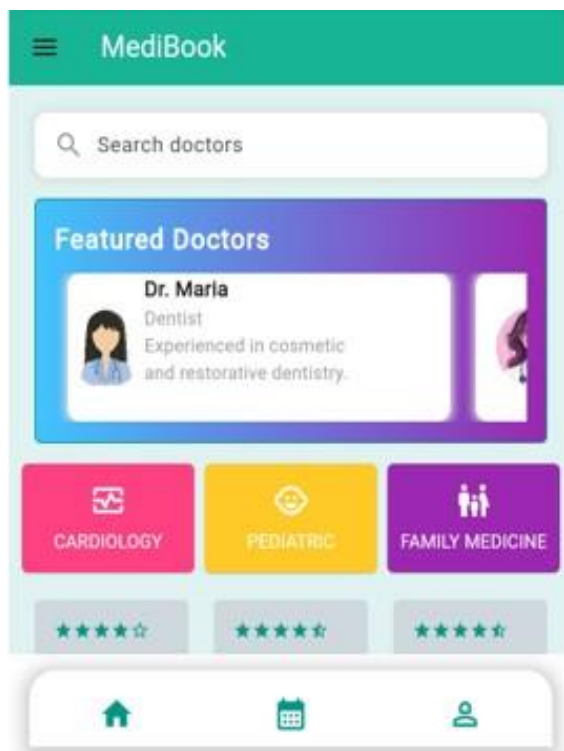


Home Page

Purpose: Serves as the main dashboard for users.

Features:

- A search bar for finding doctors.
- A "Featured Doctors" section displaying cards for popular doctors with their images and brief details.
- Quick-access buttons to various specialties like cardiology, pediatrics, and family medicine.
- "What People Think About Us" section.
- A navigation drawer for accessing other sections (Appointments, Profile, etc.).
- Bottom navigation bar for quick access to the home, appointment, and profile pages.



Doctor List Page

Purpose: Displays a list of available doctors for consultation.

Features:

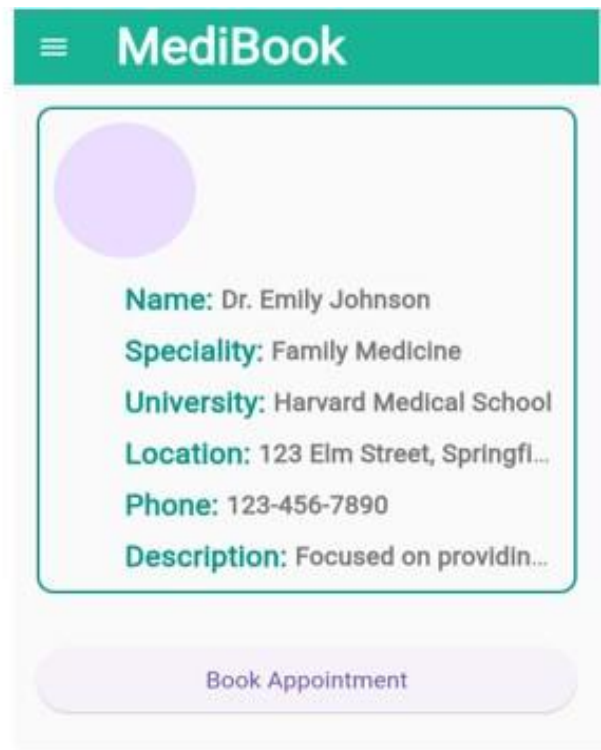
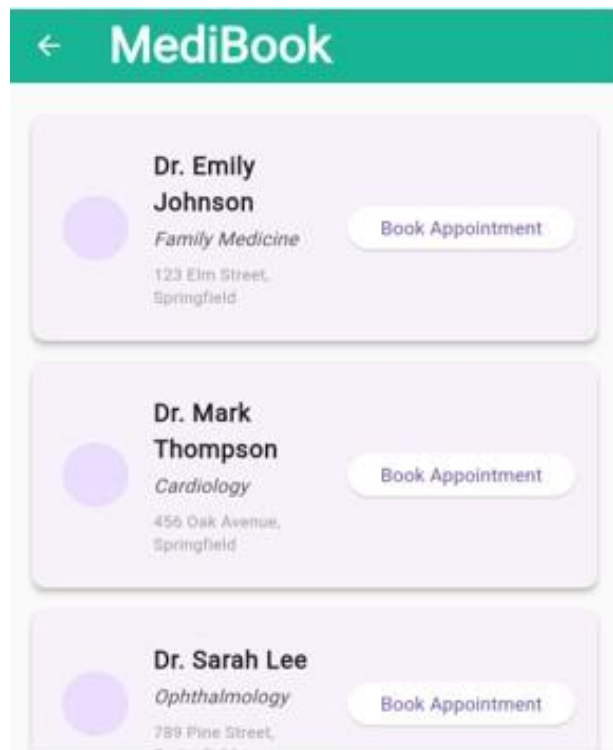
- Cards for each doctor with their name, specialty, location.
- Tap a card to view detailed information about the doctor.
- "Book Appointment" button to schedule a meeting directly from this page.

Doctor Info Page

Purpose: Provides detailed information about a selected doctor.

Feature:

- Doctor's profile picture and name.
- Specialty, description, university affiliation, location, and contact information.
- A "Book Appointment" button for scheduling a consultation.



Book Appointment Page

Purpose: Allows users to schedule an appointment with a doctor.

Features:

- Input fields for patient details, including name, mobile number, and a description of symptoms.
- Dropdown menu to select a doctor from the available list.
- Date and time pickers to schedule the appointment.
- Validations to ensure all fields are completed correctly.
- "Book Now" button to confirm the appointment.
- Displays a success dialog upon successful booking.



Enter Patient Details

Patient Name

Mobile Number

Select a doctor

Description (Symptoms)



Enter Patient Details

Patient Name
user

Mobile Number
12356478124

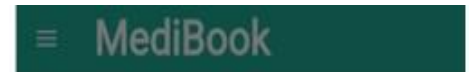
Dr. Michael Brown

Description (Symptoms)
sick

Date
2025-01-16

Time
9:00 AM

Book Now



Enter Patient Details

Patient Name
user

Mobile Number
12356478124

Dr. Michael Brown

Description (Symptoms)
sick

Date
2025-01-16

Time
9:00 AM

Book Now

Appointment Booked

Your appointment has been successfully booked.

Ok

Appointment Schedule Page

Purpose: Lists all appointments booked by the user.


Features:

- Displays a list of upcoming and past appointments.
- Each appointment shows the doctor's name, date, time, and description.
- "Delete" button to cancel an appointment.
- Shows a message if no appointments are available.


Before taking an appointment

After taking an appointment

After deleting an appointment



No appointments found.

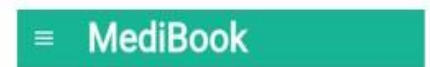


Doctor: Dr. Michael Brown

Date: 2025-01-16

Time: 9:00 AM

Description: sick



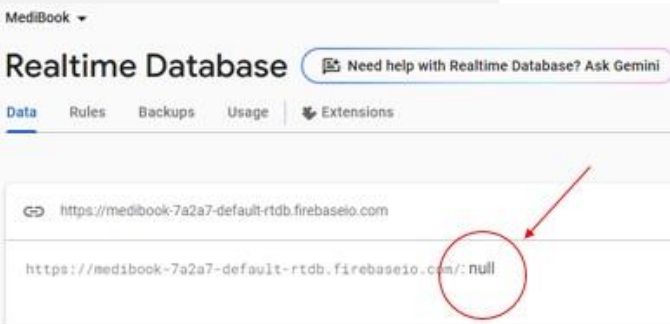
No appointments found.

Appointment deleted successfully

Database Integration for Appointments

- **Purpose:** Manages the storage and retrieval of appointment data in real-time.
- **Implementation:**
 - A real-time database is used to handle appointment data dynamically. ◦ The database stores information such as patient details, doctor information, date, and time of appointments. ◦ Upon booking an appointment, the data is added to the database, which reflects immediately in the app.
 - If a user deletes an appointment, the corresponding entry is removed from the database in real-time.

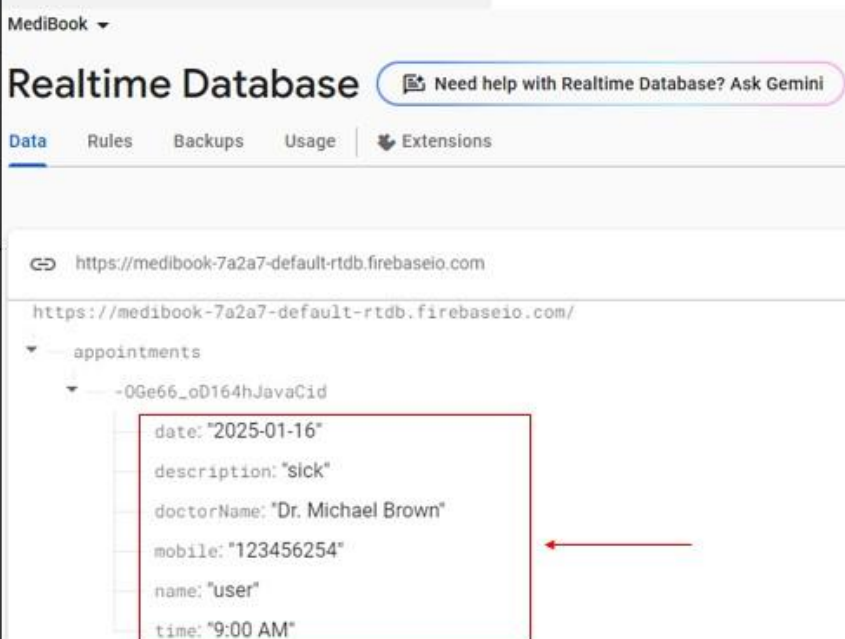
Before taking an appointment



After deleting an appointment



After taking an appointment

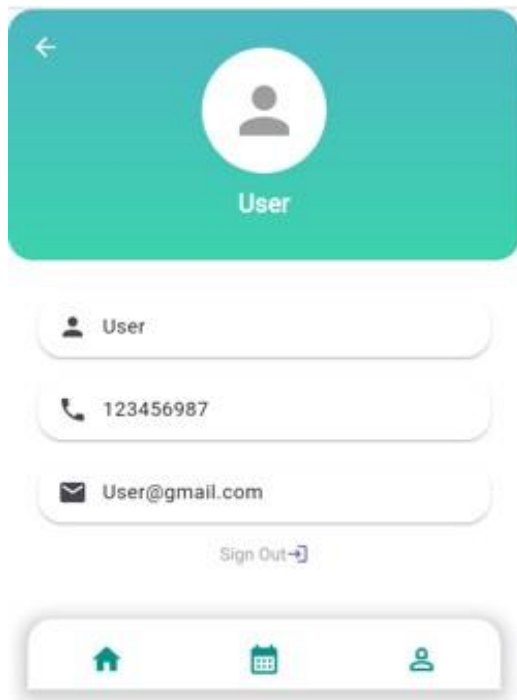


User Profile Page

Purpose: Displays and manages the user's profile information.

Features:

- Displays the user's name, email, and phone number.
- Profile picture with an editable option.
- "Sign Out" button to log out of the app.
- Bottom navigation bar for navigating to other sections.



Main Page (App Initialization)

Purpose: Manages app initialization and navigation.

Features:

- Firebase initialization for authentication and database connectivity.
- Routes to different pages based on user actions (e.g., login, signup, home).