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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.

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.

Signup Page

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.
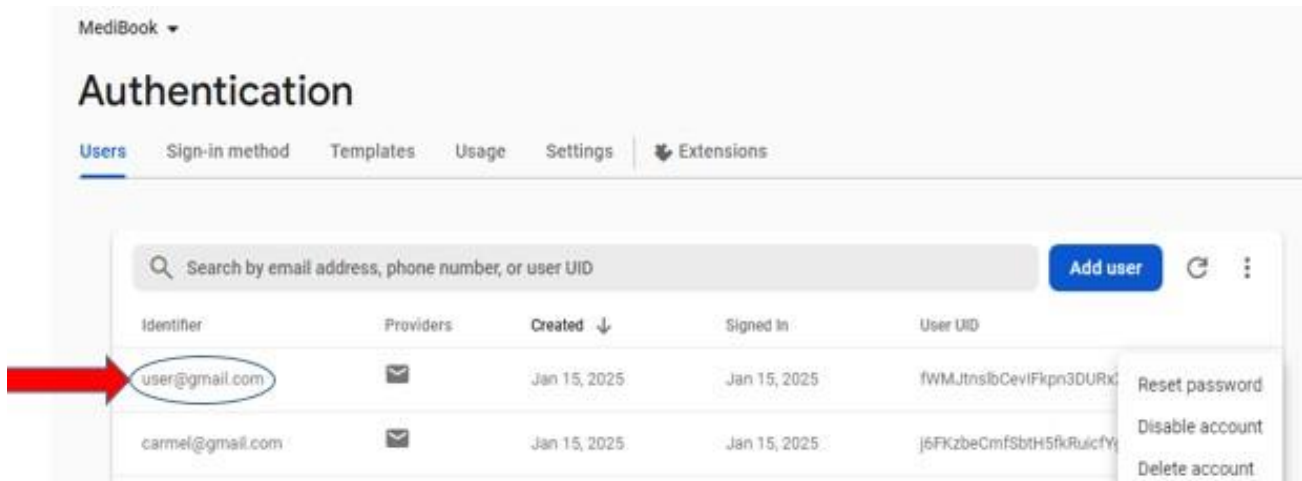

Home Page

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.
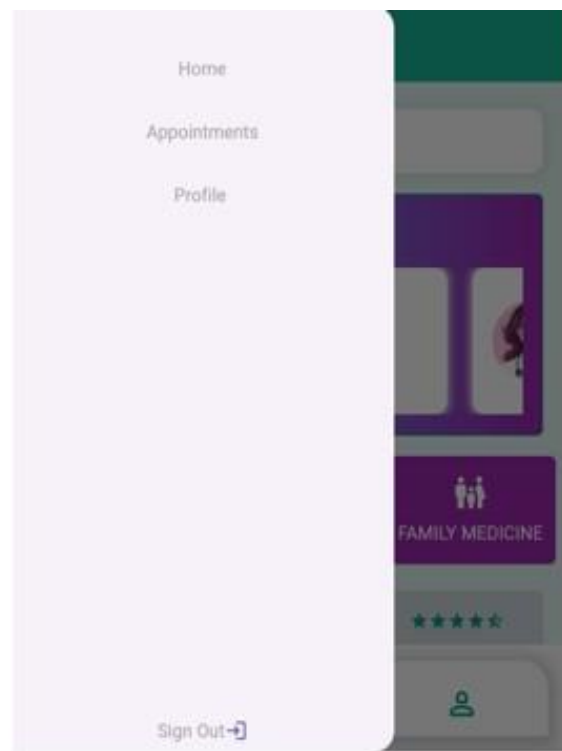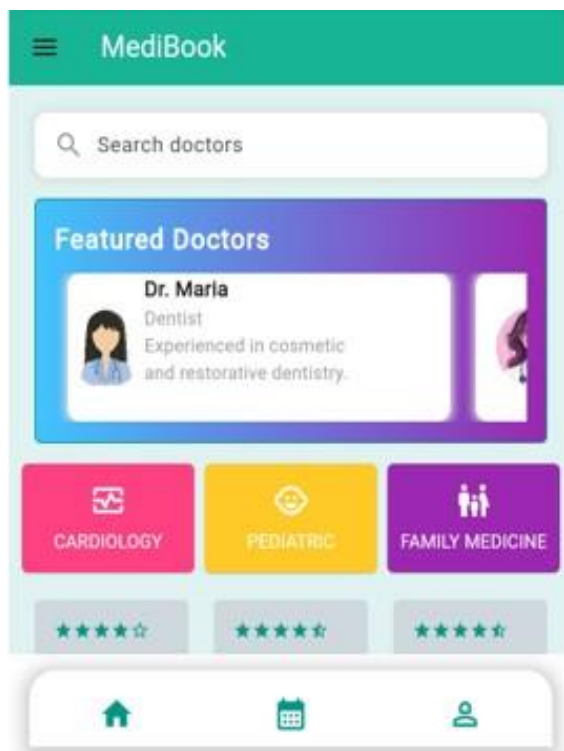
Doctor List Page

Purpose: Displays a list of available doctors for consultation.
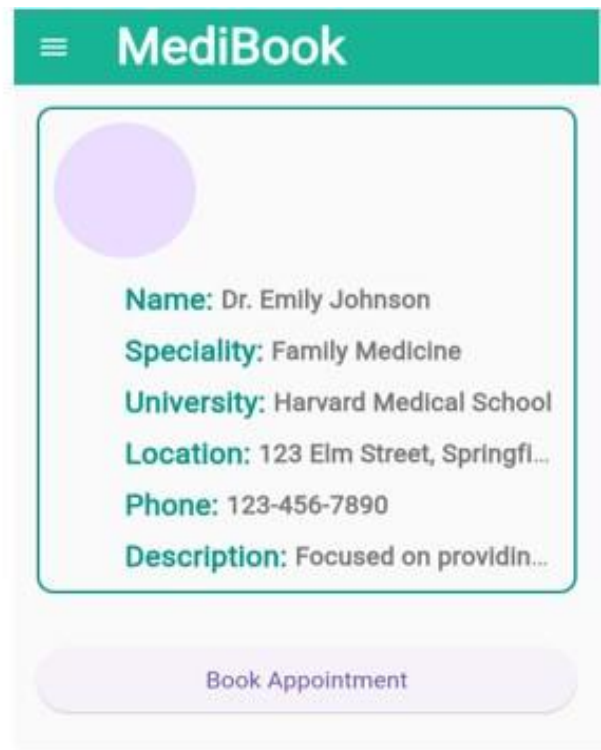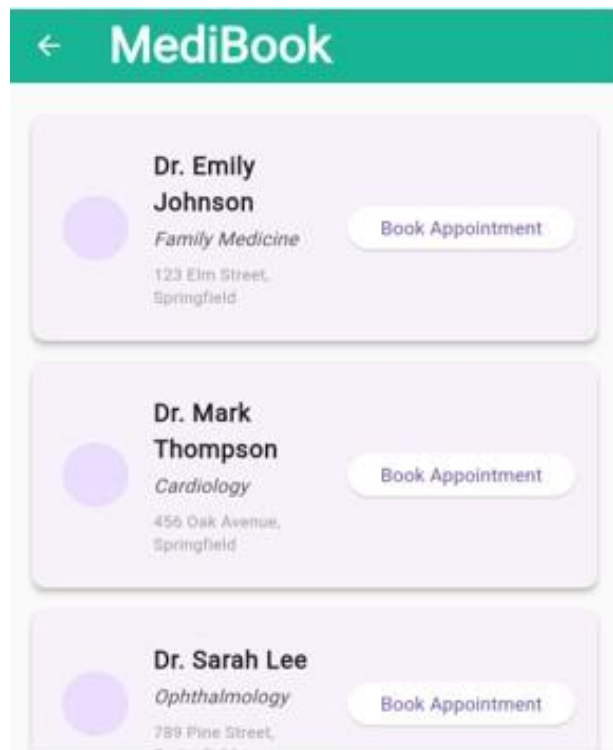
Features:

- 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.
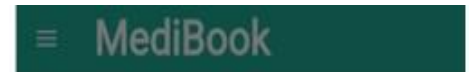
Appointment Schedule Page

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 massage if no appointments are available.

Before taking an appointment   After taking an appointment   After deleting an appointment

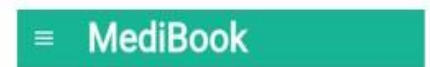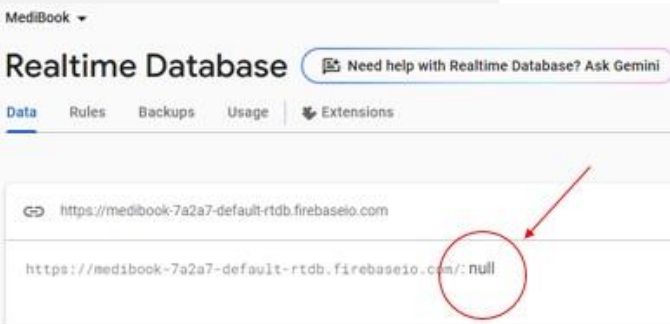# Database Integration for Appointments

- **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.
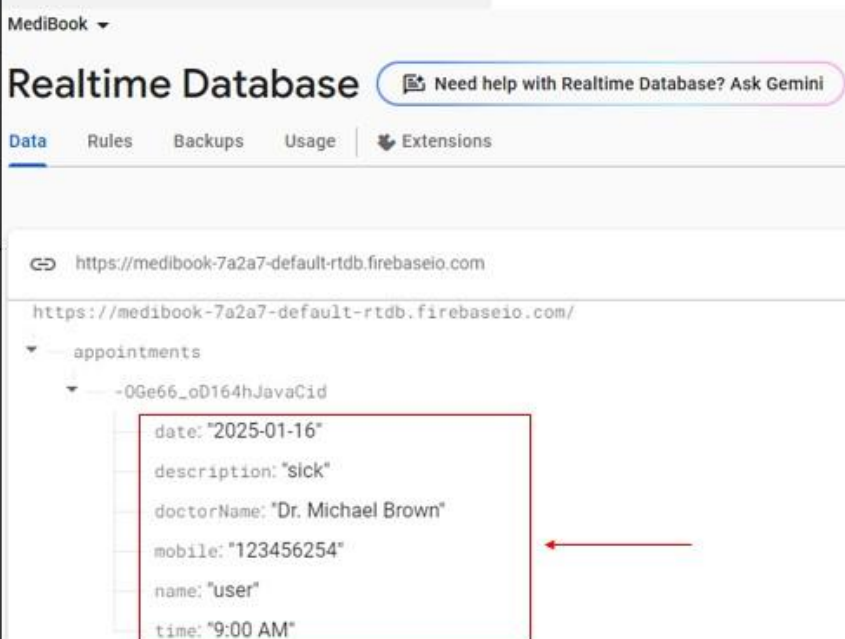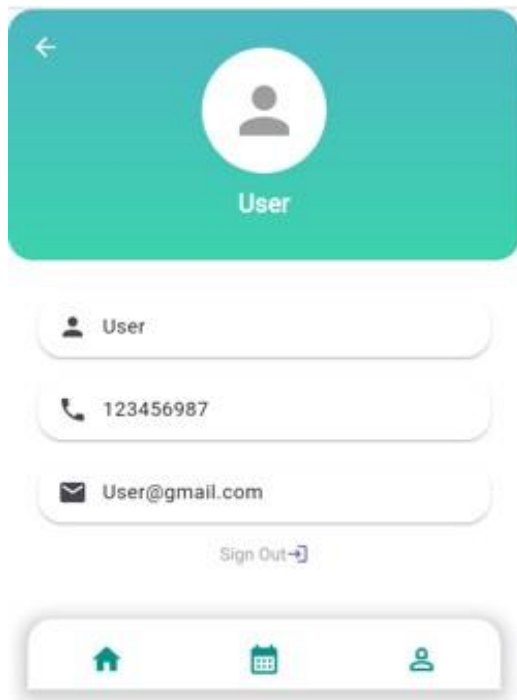
User Profile Page

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).