Part 2: Design Alternatives

Scenarios

Scenario 1

Alice, a busy professional, uses M.A.P.S to schedule her annual health check-up without the hassle of calling the clinic. She logs into the app, searches for a general practitioner in her area, and selects Dr. Smith based on reviews. Alice easily books an appointment that fits her schedule and receives a confirmation and reminder, ensuring she doesn't miss her check-up.

Scenario 2

John, new to the city, uses M.A.P.S to find a dermatologist for his skin condition. He creates an account, searches for dermatologists, and filters the results by location and availability. After reviewing profiles, John selects Dr. Lee and books an appointment for the next day. The app provides a confirmation and reminder, ensuring John gets the care he needs promptly.

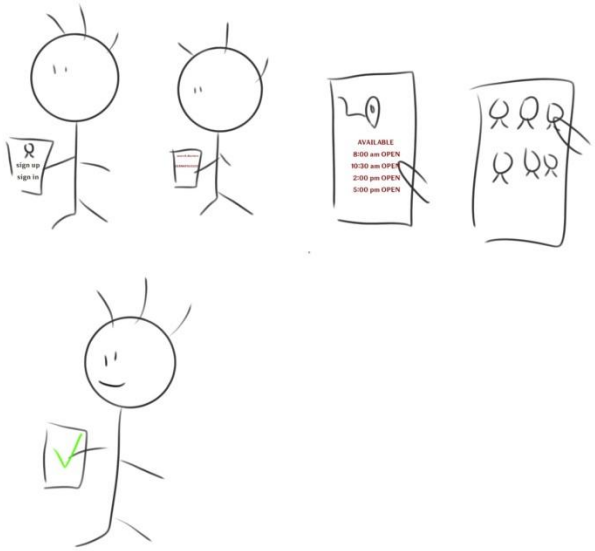
Scenario 3

Maria, who has a chronic condition, uses M.A.P.S to manage her regular follow-up appointments with her cardiologist. She logs into the app, views her past appointments, and selects Dr. Patel for her next visit. Maria books an available time slot and sets up recurring reminders, ensuring she never misses a follow-up. The app provides a confirmation and a reminder a week before the appointment, helping Maria stay on top of her healthcare needs.

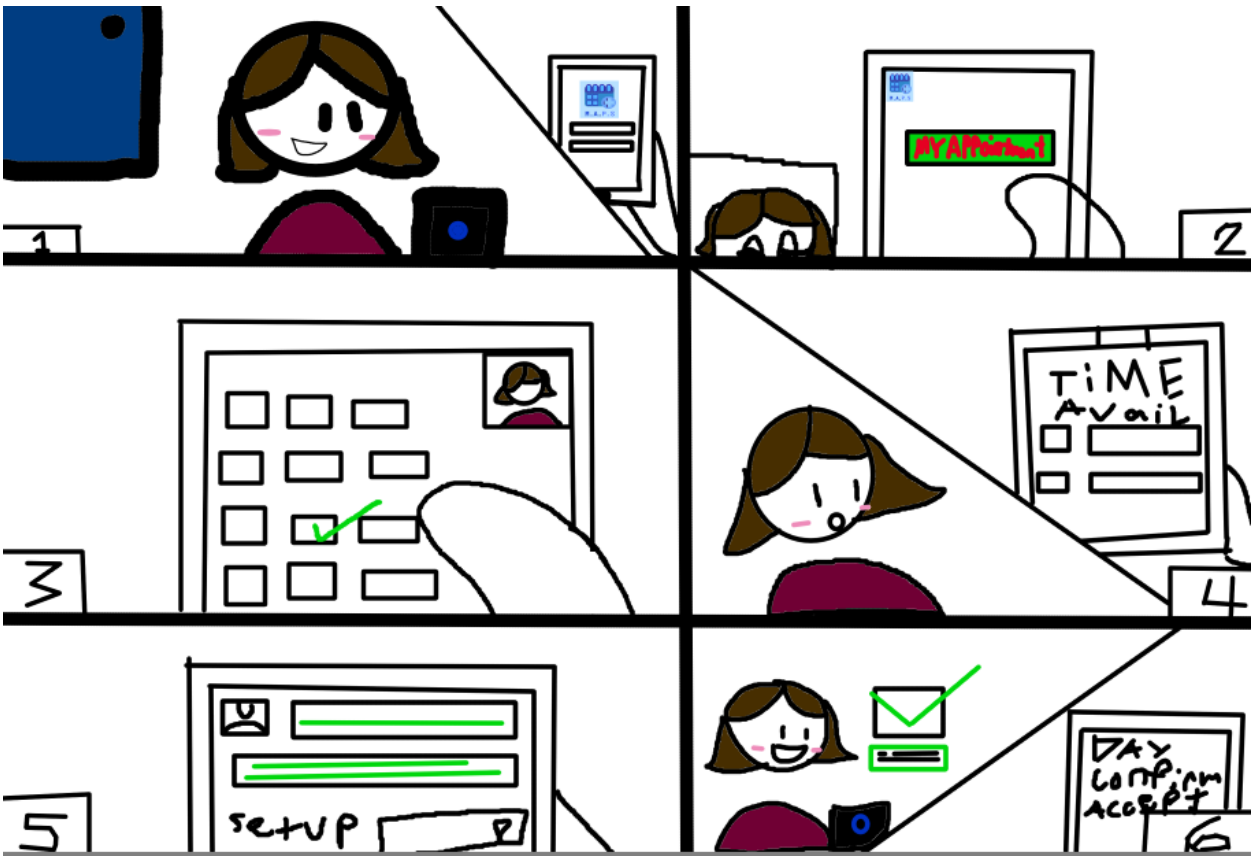
Storyboard

Scenario 1

Scenario 2



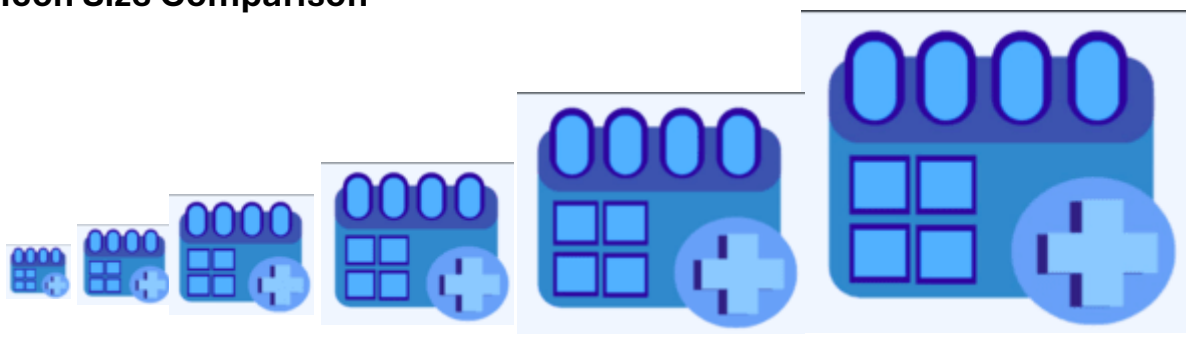
Scenario 3



Problem Statements

- Patients face long wait times and difficulty booking appointments due to inefficient scheduling systems.
- Existing booking systems are not user-friendly, especially for elderly or less tech-savvy patients.
- Patients often miss appointments or receive inadequate care due to poor appointment management systems.

Application Icon Size Comparison

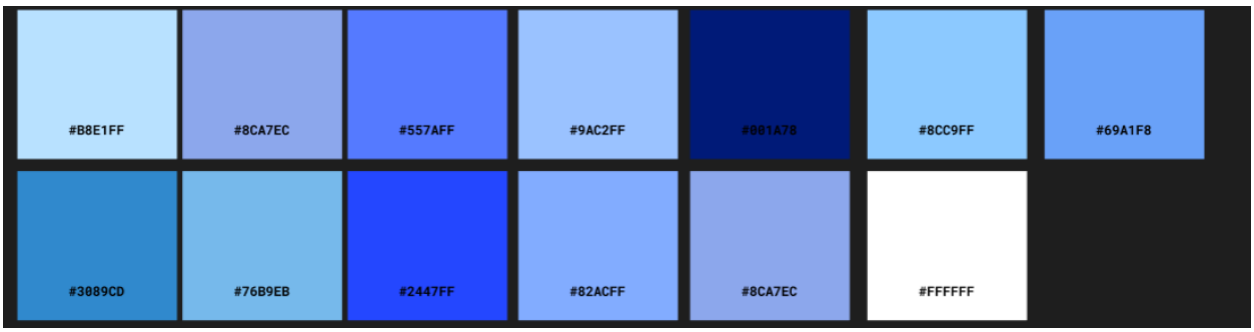


(from left to right: 32x32 – 48x48 – 72x72 – 96x96 – 144x144 – 192x192)

Design

The M.A.P.S app logo features a stylized calendar icon with a medical cross, symbolizing the integration of scheduling and healthcare services.

Color Palette



These are the color palettes that have been selected for the application, we may change in a later time but for the meantime, that will do. We used certain shades of blue to match with the logo of the app.

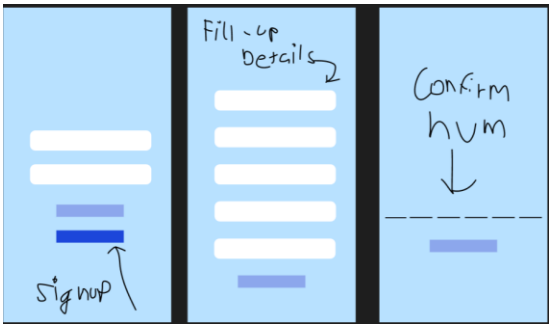
Font Style

We chose Roboto Mono as the main font for the M.A.P.S app due to its clean, modern, and highly legible design, which enhances readability across various screen sizes and resolutions. Its monospaced nature ensures consistent character spacing, making it ideal for displaying medical information clearly and accurately.

GUI

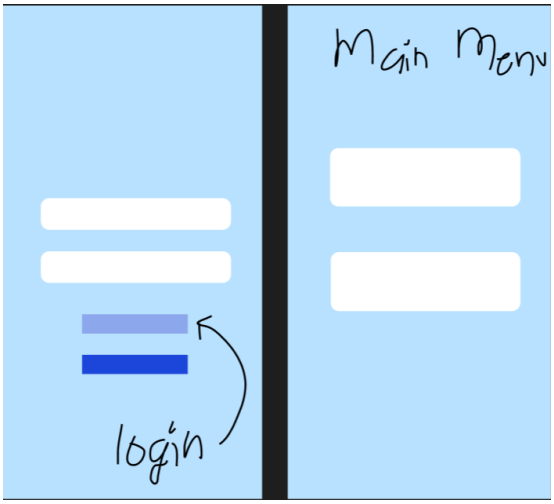
For this project, we decided to use Figma for our designing and prototyping.

Sample Feature Flows



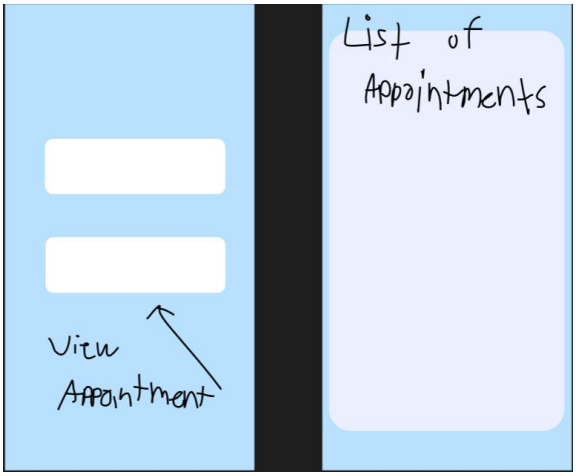
Sample Flow Sign Up

The flow demonstrates the sign up process of the app where the user has to create an account in order to use the app.



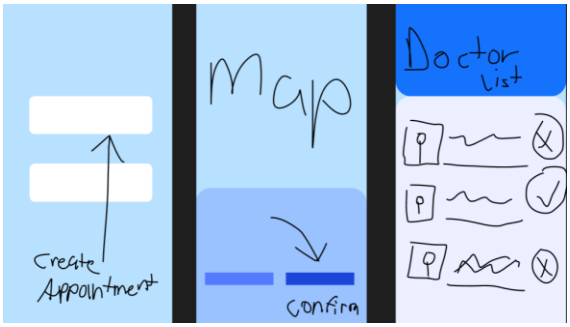
Sample Flow Log in

The flow demonstrates the log in sequence where after logging in, the user would be transported to the main menu that has 2 buttons (Create Appointment, View Appointment)



Sample Flow View Appointment

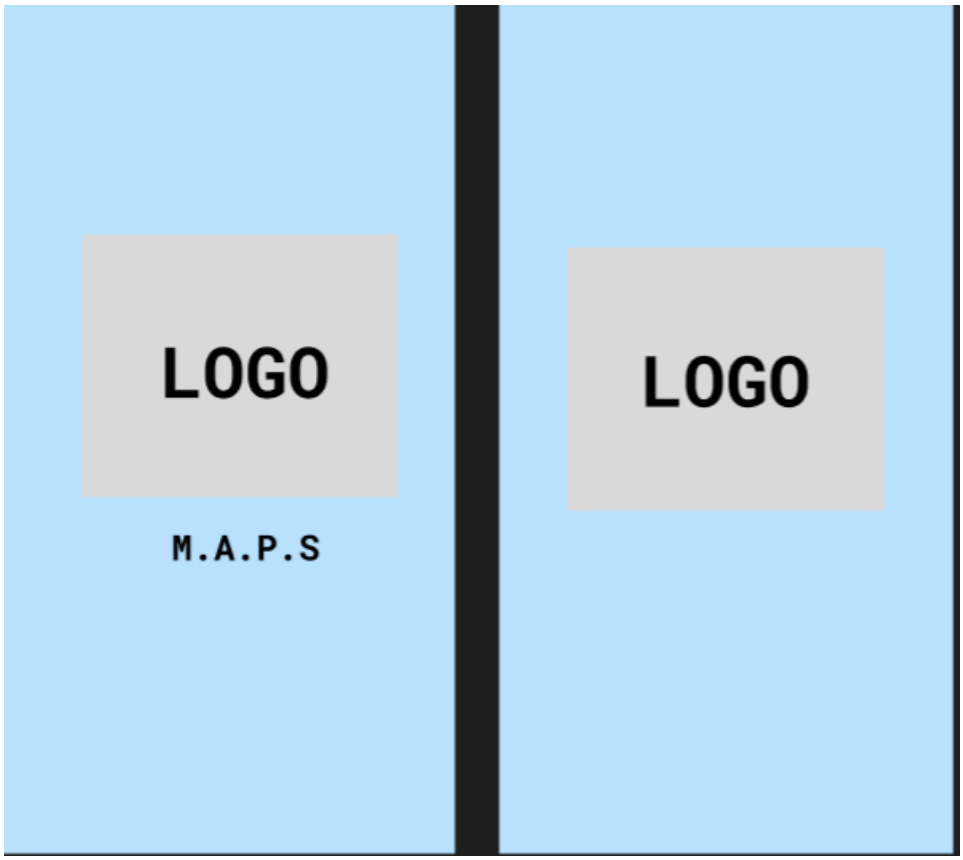
The flow demonstrates the viewing appointment from the main menu where after pressing the button, it would show all previous and current appointments.



Sample Flow Create Appointment

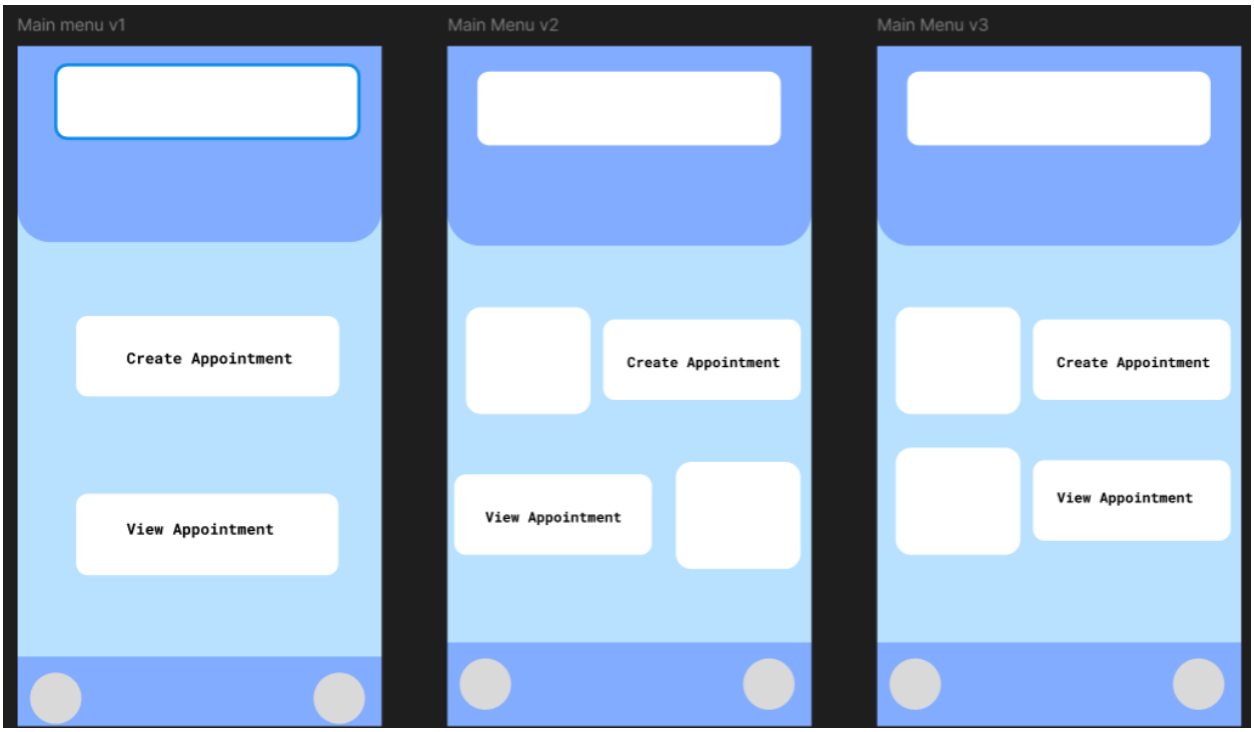
The flow demonstrates creating appointment where after pressing it, it would show a map to confirm the user's location then it would show a list of doctors available.

Design Alternatives



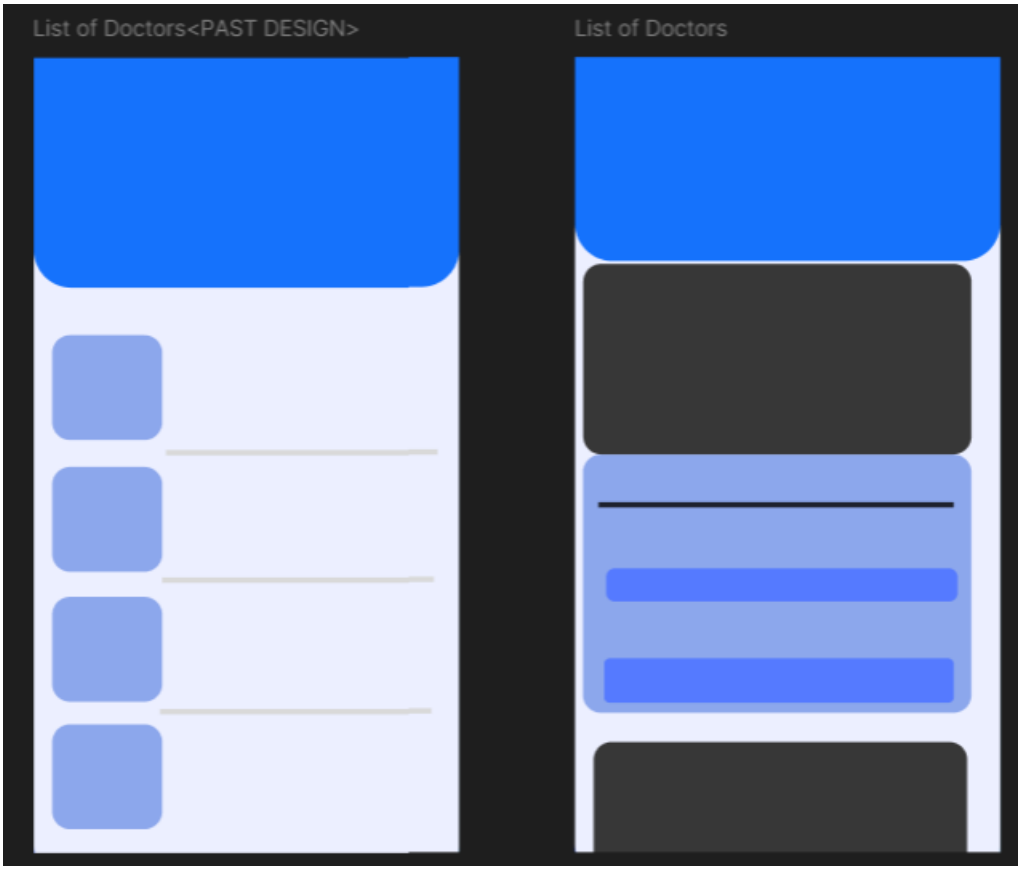
Splash Screen

So we have here two possible designs for the splash screen where it would either be the icon along with the name or just the icon only.



Main Menu

We came up with three ways for the main menu where the first one is just a button for create and view appointments. The second and third one has an extra icon next to it for accessibility and extra design.



List of Doctors

We came up with two different versions of showing the list of doctors after the user confirms their location. The first one looks more simplified and you can see more doctors at once, but we ran into the problem of we need to display the doctor's detail, ratings, specialist. So we made the second one, even though you can only see one at a time, but at least each doctor's details are properly showed to the user before considering appointing the doctor.

Mock-up/Prototype

We made a mock-up/prototype that we may use on the final output. This was created in Figma

Splash Screen and Login Screen

Opening the application will show a three seconds splash screen before going to the log in page. After the splash screen, the user will be taken to the log in screen where the user can either login or signup a new account

Signup Page

When clicking the signup page, the user requries to fill the necessary details then after which, there would be a six digit code sent to the mobile number in the registration. After putting the code, the user successfully created an account.

Main Menu

After logging in or creating an account,

we would get directed to the main menu,

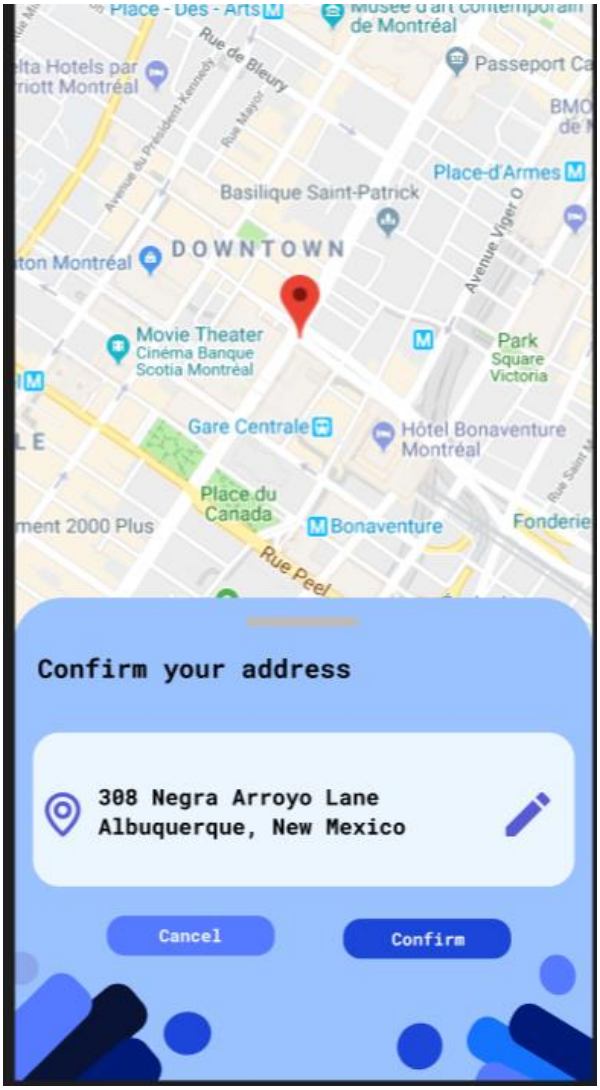
where the user can create or view appointments.

View Appointment

Clicking on View appointment would show a list of previous done appointments and current appointments.

For the meantime we set this to no appointments found.

Create Appointments



Pressing on Create Appointments would first require the user to confirm their location, and from there, the app would automatically locate the closest doctor to the user. As well, each doctor has their own full details, so the user knows first about the doctor before setting up an appointment.

Additional Feature Discussion

While designing and prototyping the application, me and my partner wants to implement a lot of features that we think would be an amazing addition to the app. But we still need to balance out since we are restrained by time. Due to that, these ideas may or may not appear on the final app.

These two are our main priority for the meantime

- **View Appointments:** On the View Appointments page, users can see a comprehensive list of all their past and current appointments, with each appointment color-coded based on its status (e.g., ongoing, completed, cancelled). Clicking on an appointment provides detailed information about that specific appointment.
- **Create Appointments:** The Create Appointments feature allows users to schedule new appointments and includes a filter to search for specific doctors or specialists. By clicking on "See Full Availability" for a selected doctor, users can open a calendar to choose their preferred day and view all available time slots. Once a time slot is selected, the user is prompted to choose a payment method to confirm the appointment.

- **Account Customization:** In the main menu, users can click on their avatar to access account customization options. This feature allows users to update personal information, change their profile picture, manage contact details, and set preferences for notifications and reminders, ensuring a personalized and user-friendly experience.
- **App Settings :** The app settings feature provides users with control over various aspects of the app's functionality. Users can adjust notification preferences, change language settings, enable or disable accessibility features, and manage privacy settings. This ensures the app can be tailored to individual needs and preferences.
- **Insurance Implementation:** Insurance implementation allows users to enter and manage their insurance details within the app. When booking appointments, the app automatically checks coverage and displays any co-pay or out-of-pocket costs. This feature simplifies the billing process and ensures users are aware of their financial responsibilities upfront.
- **Prescription Management:** Prescription management enables doctors to upload digital prescriptions directly to the app. Users receive notifications when a prescription is available and can view, download, or send it to a partnered pharmacy

for fulfillment. This feature streamlines the prescription process, making it more convenient for users to manage their medications.

- **Telemedicine Integration:** Telemedicine integration allows users to book and attend virtual consultations with healthcare providers. Users receive a video call link upon booking a telemedicine appointment and can join the call through the app at the scheduled time. This feature provides flexibility and convenience for users who cannot visit the doctor in person.
- **User Rating and Reviews:** The user rating and reviews feature enables patients to rate their experience and leave feedback for doctors after appointments. These ratings and reviews are displayed on the doctor's profile, helping other users make informed decisions when selecting healthcare providers. This feature fosters transparency and community-driven insights within the app.