

Clinic App

It's a patient management app for clinics.

Patient Management App for Clinic with React Native and Redux

We had the opportunity to work on a patient management app for a clinic using React Native and Redux. This project aimed to streamline the clinic's administrative processes and enhance the overall patient experience.

Technology Used

React Native:

React Native runs on [React](#), a popular open-source library for building user interfaces with JavaScript. To make the most of React Native, it helps to understand React itself. It is a framework developed by Facebook for creating native-style apps for iOS & Android under one common language, JavaScript.

MongoDB:

A NoSQL database that provides flexibility and scalability for storing and retrieving structured and unstructured data. It uses a document-based model and supports powerful querying capabilities.

Node.js:

A JavaScript runtime built on Chrome's V8 engine. It allows you to run JavaScript code on the server side, enabling server-side scripting and building scalable web applications.

Express:

A minimalistic and flexible web application framework for Node.js. It provides a set of features for building web servers and APIs, including routing, middleware support, and request handling.

Mongoose:

A MongoDB object modeling tool for Node.js. It provides a simple and convenient way to interact with MongoDB and define schemas, models, and queries.

React Router:

A library that enables client-side routing in React applications. It allows for navigation between different pages or views within a single-page application.

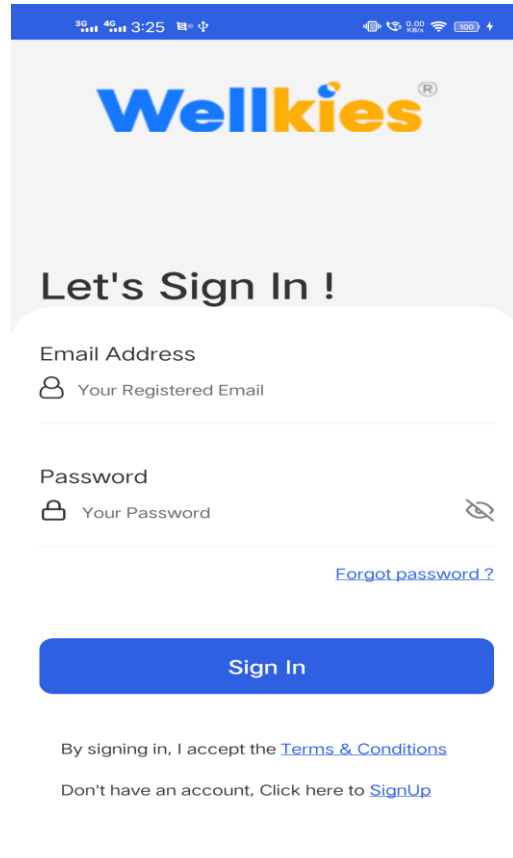
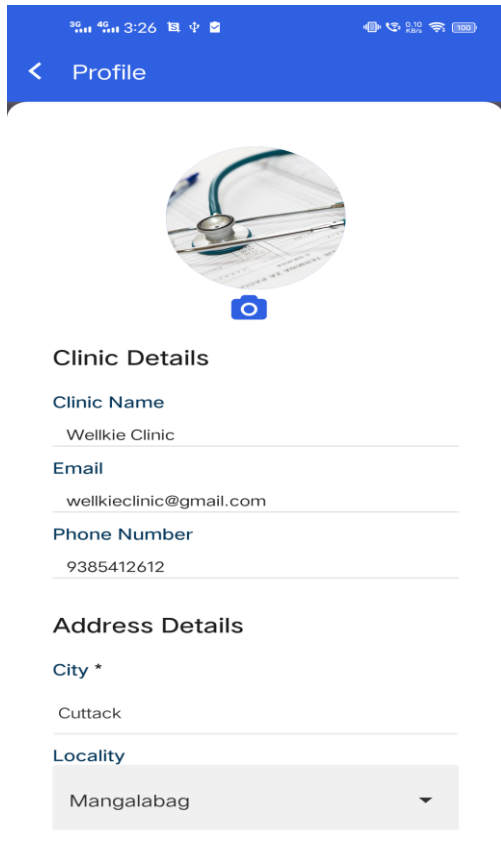
Axios:

A popular JavaScript library for making HTTP requests from the browser or Node.js. It provides an easy-to-use API for sending and handling HTTP requests and responses.

JWT (JSON Web Tokens):

A standard for creating secure authentication tokens. It enables the generation and verification of digitally signed tokens that can be used to authenticate and authorize users in web applications.

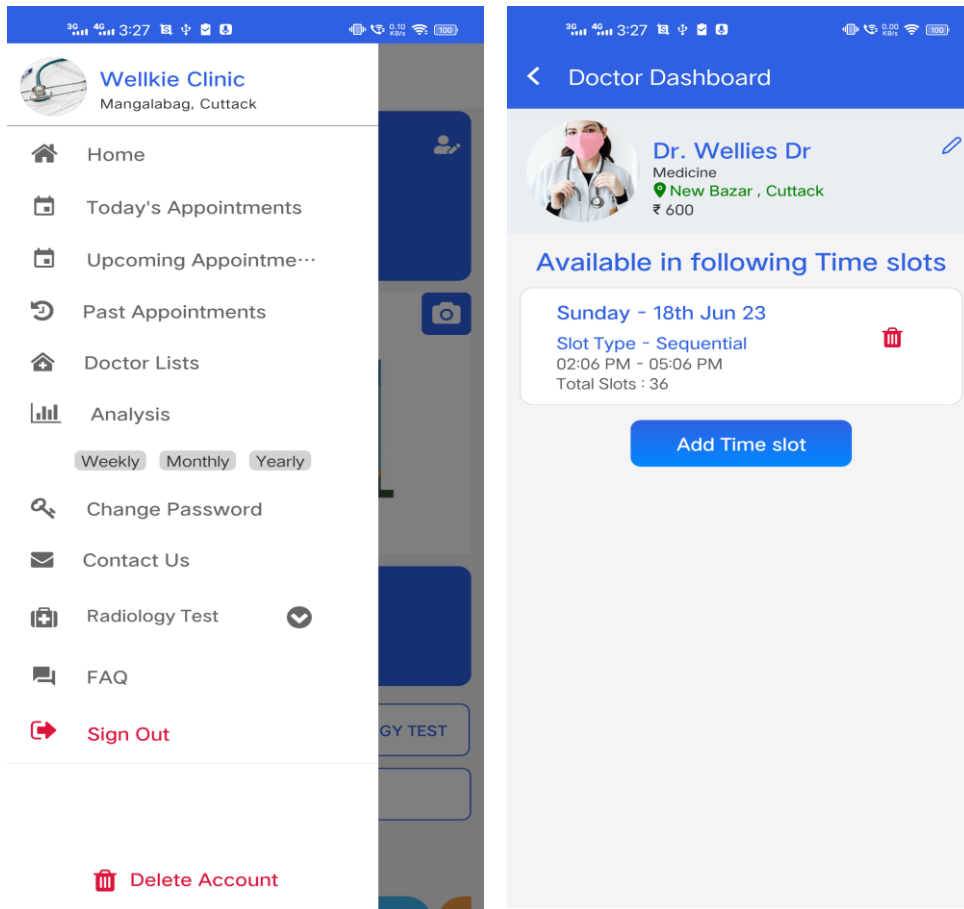
The main objectives of the project were as follows:



1. Patient Registration and Profile Management:

- Developed a user-friendly interface for patients to register and create their profiles within the app.
- Implemented form validation to ensure accurate and complete patient information.
- Integrated Redux for efficient state management and data synchronization across components.

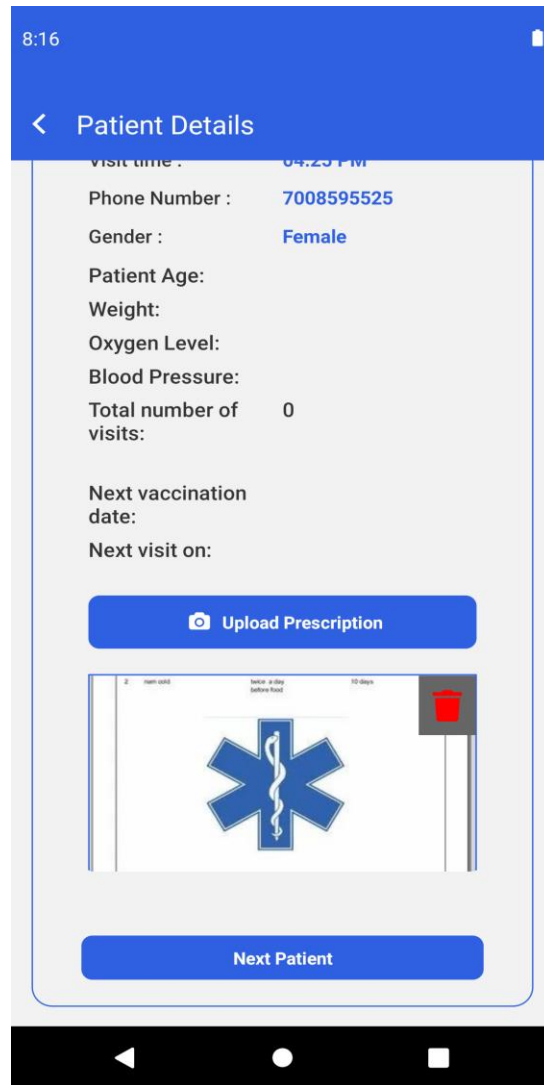
2. Appointment Scheduling and Tracking:



- Designed an intuitive calendar view for clinic staff to schedule appointments for patients.
- Implemented features for automated reminders and notifications to patients regarding their upcoming appointments.
- Utilized Redux to manage appointment data and update the calendar in real time.

3. **Electronic Medical Records (EMR):**

- Created a secure and accessible repository for storing patients' medical records within the app.
- Implemented features for capturing and uploading documents, such as lab reports and medical images.
- Utilized Redux to manage the state of the EMR, ensuring efficient retrieval and updating of records.



4. Prescription Management:

- Developed a module for doctors to create digital prescriptions and share them with patients.
- Integrated barcode scanning capabilities to easily capture medication details and dosages.
- Utilized Redux to manage prescription data, enabling seamless retrieval and tracking.

5. Billing and Payment Integration:

- Integrated payment gateways to facilitate online payments for clinic services and medications.

- Developed a billing module to generate invoices and track payment history.
- Utilized Redux to manage billing and payment-related data.

Throughout the project, we followed best practices in React Native development, including modular component architecture, code reusability, and efficient data flow using Redux, and also ensured a responsive and user-friendly design that aligned with the clinic's branding guidelines.