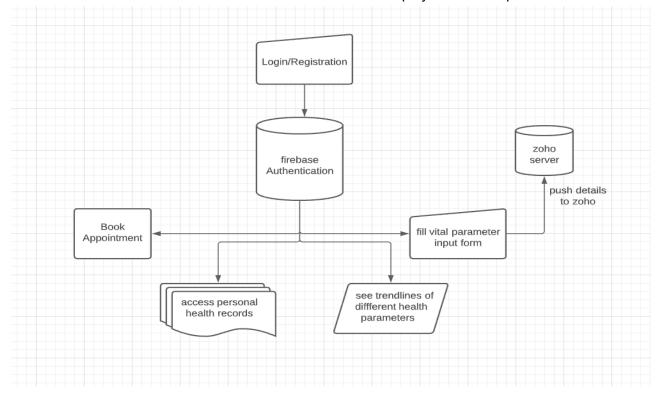
Team 40, Remote pregnancy monitor, Ananya, Bhargavi, Kiran, Rohan

Design Overview

Architectural design

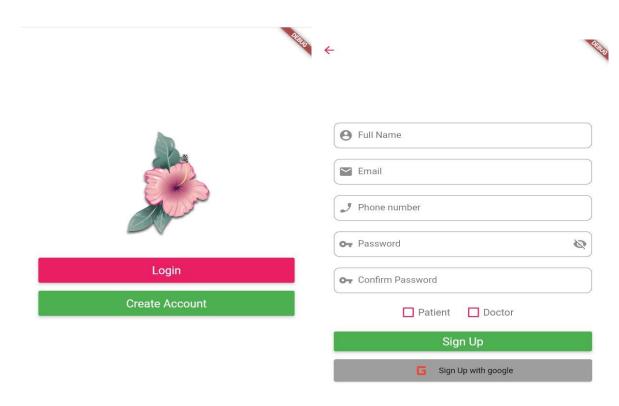
We're building a mobile application using flutter and firebase. Flutter is a tool that allows us to build cross-platform applications with one programming language and a single codebase. Firebase helps us in authentication, storing users' details, etc. we would also interact with the Zoho server because we need to fetch trendlines and display them to respective users.

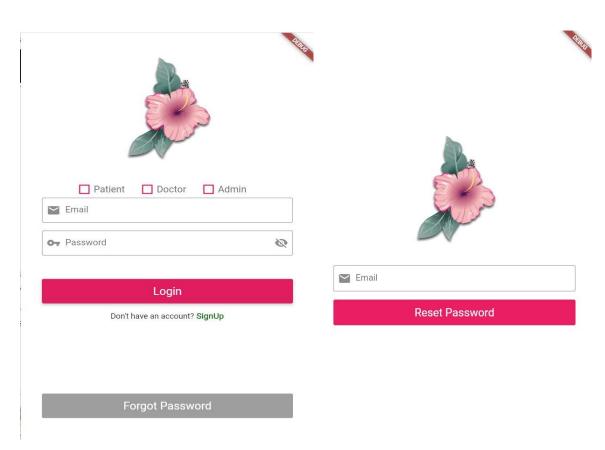


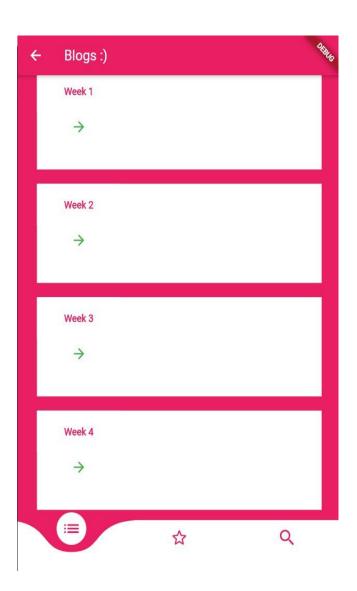
https://lucid.app/lucidchart/bf8dbe53-bb50-4a2d-9b08-3e31a018b145/edit?invitationId=inv_9 2a2f773-2676-4b62-86a2-d011e543139f

System interfaces

User Interface

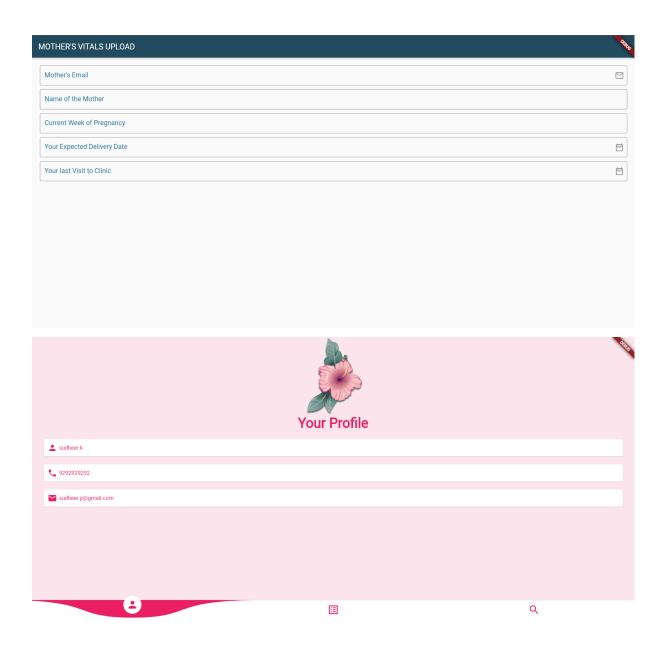












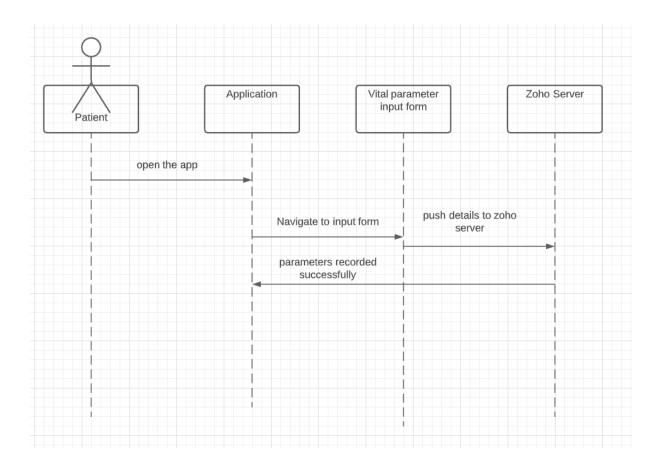
Model

Doctor	The class is responsible for storing doctor's details (email ID and the password) Class behaviour The class, in real world, has the following methods: login(): authenticates a doctor's login
Patient	Patient State The class is responsible for storing patient's details (email ID and the password) Class behaviour The class, in real world, has the following methods: login(): authenticates a patient's login
User	Class behaviour ■ The class, in real world, has the following methods: □ register(): user registers as patient or doctor

Sequence Diagram(s)

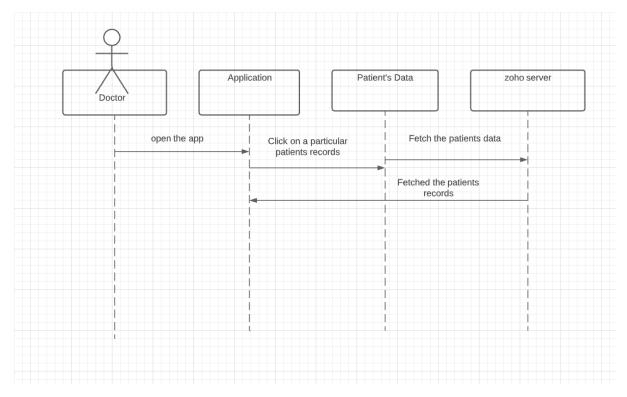
USE CASE 1: Patient logs into application and fills vital input form

 $\frac{https://lucid.app/lucidchart/0c68f51a-8b2b-462b-a59b-86d58fc1ee92/edit?invitationId=inv_5}{6f55d80-8ed1-4987-9bb4-efc9d62dd053}$



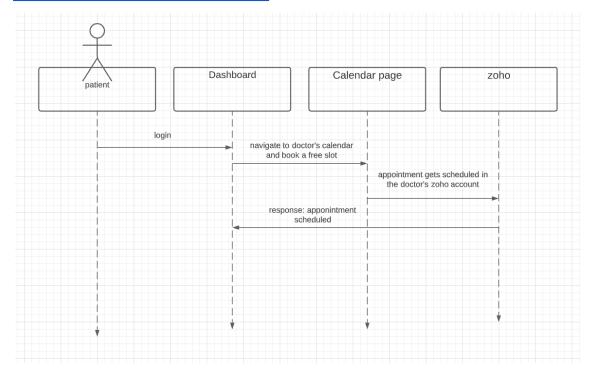
USE CASE 2: Doctor checks trendlines of different health parameters

https://lucid.app/lucidchart/e530fcf1-dbe1-41f9-aec4-4d17ad86d91b/edit?invitationId=inv_c7 9788c7-1bee-415d-b346-2c218824d44b



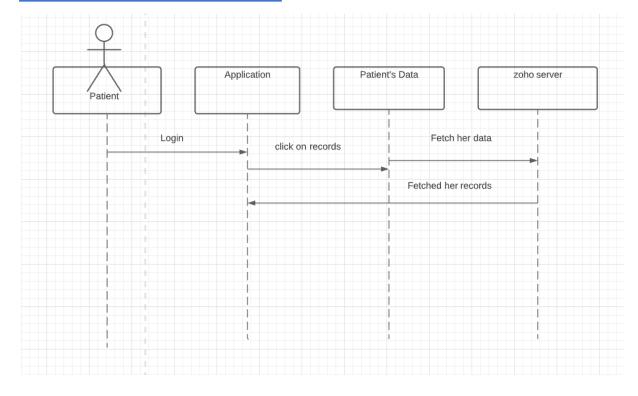
USE CASE 3: patient books an appointment

https://lucid.app/lucidchart/3d21302b-a286-48fa-9476-8353a5dd400a/edit?invitationId=inv_1 c44f4fa-dcbc-418c-a73a-0cede717f59a



USE CASE 4: patient checks her records

https://lucid.app/lucidchart/3e3d07a5-3da1-47fa-9241-51c3b6e9506f/edit?invitationId=inv_4 04be79c-5a4d-42ba-bbf9-703d18859d9f



Design Rationale

Design Rationale 1:

The original model structure for our application consisted of another role called "admin" which was eventually omitted in our first draft of the model structure. Admin is at the top of the hierarchy of our project. A patient can view only her records, A doctor can view all the patient records assigned to him, admin has the access to all the records of the patients. Introducing the admin role at the start increased the complexity of the application, so the client removed the admin role.

Design Rationale 2:

Teleconsultation at first was a compulsory requirement of the project but later on it has become a low priority requirement because a new requirement chat with the hospital has been introduced.