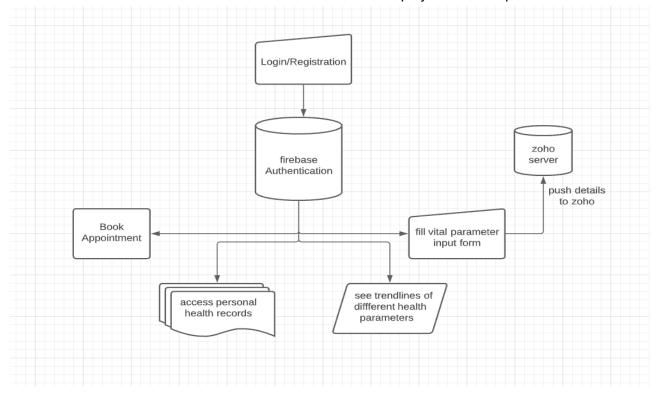
# Team 40, Remote pregnancy monitor, Ananya, Bhargavi, Kiran, Rohan

## **Design Overview**

## **Architectural design**

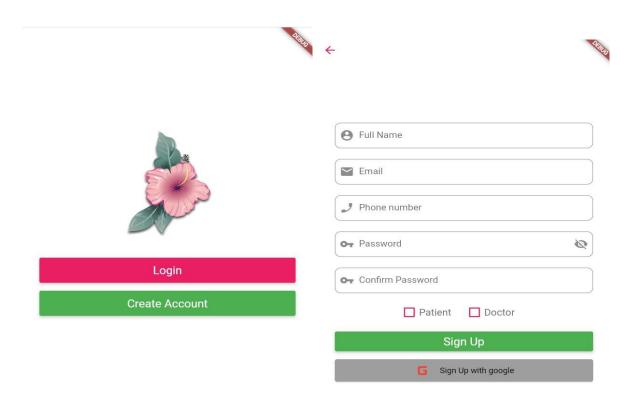
We're building a mobile application using flutter and firebase. Flutter is a tool that allows us to build cross-platform applications with one programming language and a single codebase. Firebase helps us in authentication, storing users' details, etc. we would also interact with the Zoho server because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

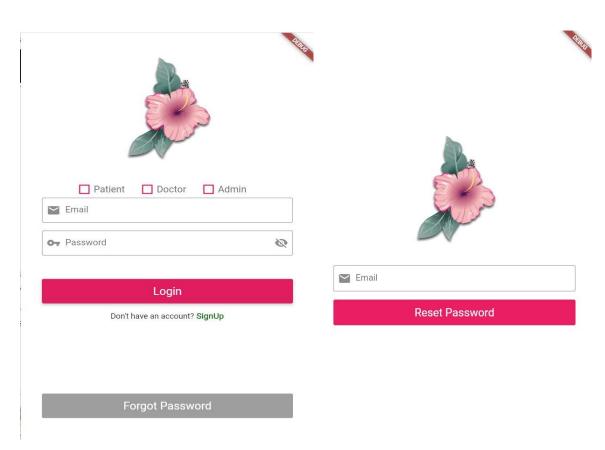


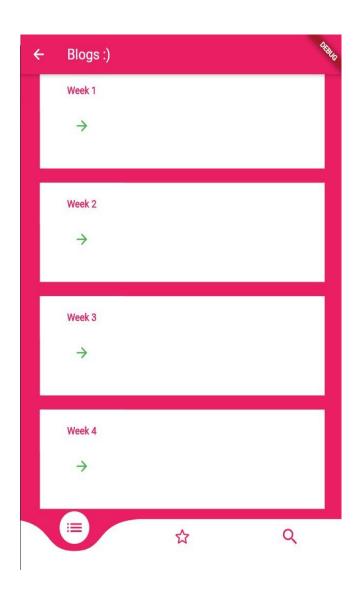
https://lucid.app/lucidchart/bf8dbe53-bb50-4a2d-9b08-3e31a018b145/edit?invitationId=inv\_9 2a2f773-2676-4b62-86a2-d011e543139f

# **System interfaces**

## **User Interface**







# Model

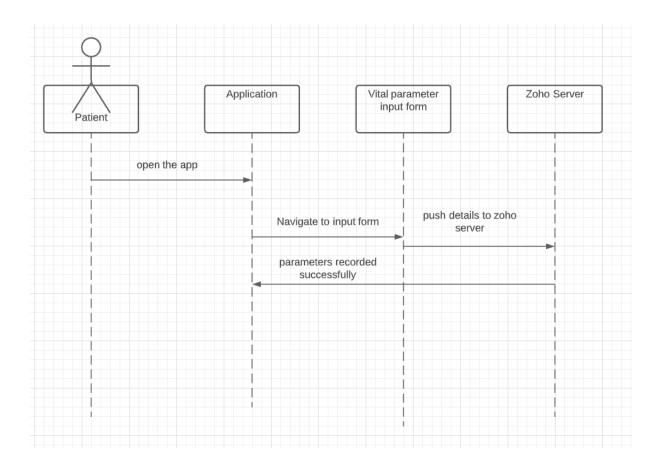
 $\frac{\text{https://lucid.app/lucidchart/334cd6f1-474e-48a3-87a6-4e1db2bf1c2d/edit?invitationId=inv\_8}{132e995-8c62-42ff-af31-30a6bc94b754}$ 

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)

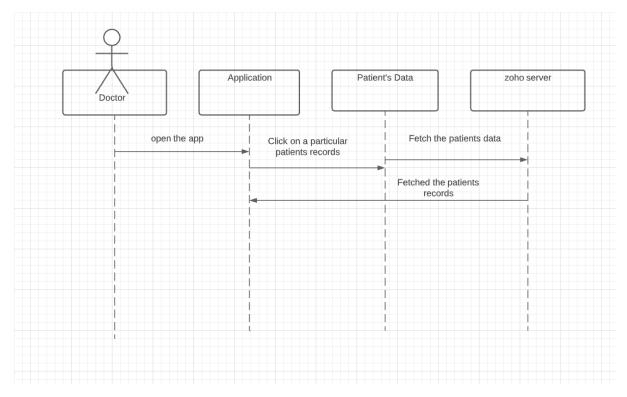
**USE CASE 1:** Patient logs into application and fills vital input form

 $\frac{https://lucid.app/lucidchart/0c68f51a-8b2b-462b-a59b-86d58fc1ee92/edit?invitationId=inv\_5}{6f55d80-8ed1-4987-9bb4-efc9d62dd053}$ 



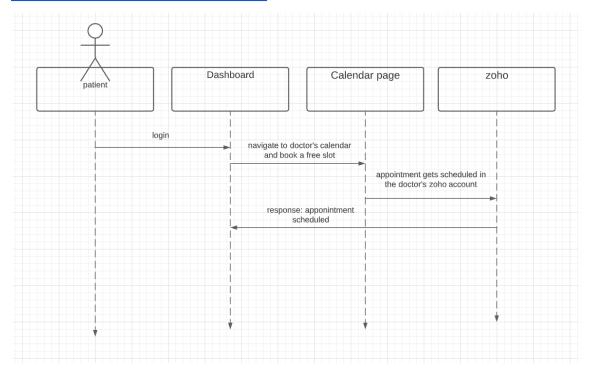
## USE CASE 2: Doctor checks trendlines of different health parameters

https://lucid.app/lucidchart/e530fcf1-dbe1-41f9-aec4-4d17ad86d91b/edit?invitationId=inv\_c7 9788c7-1bee-415d-b346-2c218824d44b



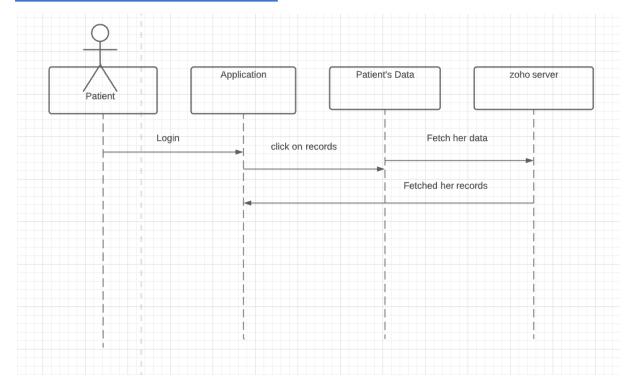
#### USE CASE 3: patient books an appointment

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.