

# **iHealthCare**

## **Project Plan and First Increment**

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**Team # 22:** SavvyHackers

**Team members:**

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# 1.Introduction

## iHealthCare

iHealthCare is a one stop solution for expensive medical diagnosis.

Using android based mobile application user can perform following operations:

- User can login using Facebook or google or he can register on our domain.
- User can start diagnosis providing minimal details, he/she will get a feel as if they are in conversation with doctor as every response of the user is followed by an adaptive and an intelligent question. I can be a multiple choice or yes/no type.
- On identifying the user condition at the end of diagnosis, we provide a detailed report of the health condition and necessary measures to be taken.
- App suggests nearby doctors, who are specialists in treating patients condition.
- Patient reviews for each practitioner will be displayed to the User.
- User can book an appointment and see that practitioner.
- On the other hand, based on user condition severity, we monitor user health, posing notification questions and re-diagnosing.
- User will be provided with a graph of his condition severity.

## 2.Project Goal and Objectives(revised)

### 2.1 Overall goal

The core idea is to build an intelligent and adaptive symptom checker and to provide the patient with the potential diagnoses and recommend doctor accordingly. Scheduling an appointment with the doctor, if required.

### 2.2 Specific objectives (problem statement)

To create a unique platform where the application asks patient, possible set of questions on symptoms based on his previous responses and diagnose intelligently.

Provides patient with the possible health conditions along with severity and description of the same.

It also helps the patient to schedule an appointment with the nearest doctor on the list for medical condition.

### 2.3 Specific features

**Diagnose:** This feature makes the patient to interact with a set of possible questions on the symptoms based on the responses given by the user previously.

**Appointment Scheduling:** This feature helps the patient to schedule an appointment with the nearest doctor on the list for the medical condition, based on the reviews from customers

**Monitoring Health Condition:** This helps the user to monitor his/her health condition based on the previous diagnosis.

**Nearby Doctors:** This feature gives the patient with the nearby doctors list and it will even show the path to the location of doctors within a specified distance.

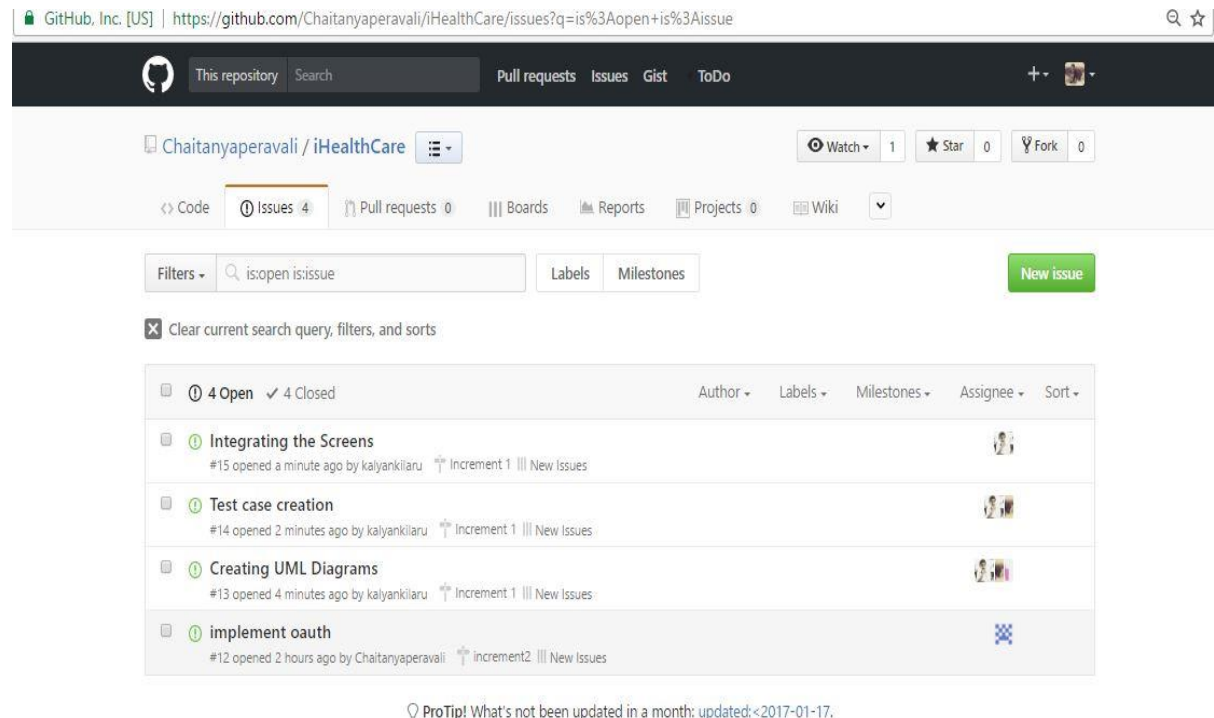
## 2.4 Significance

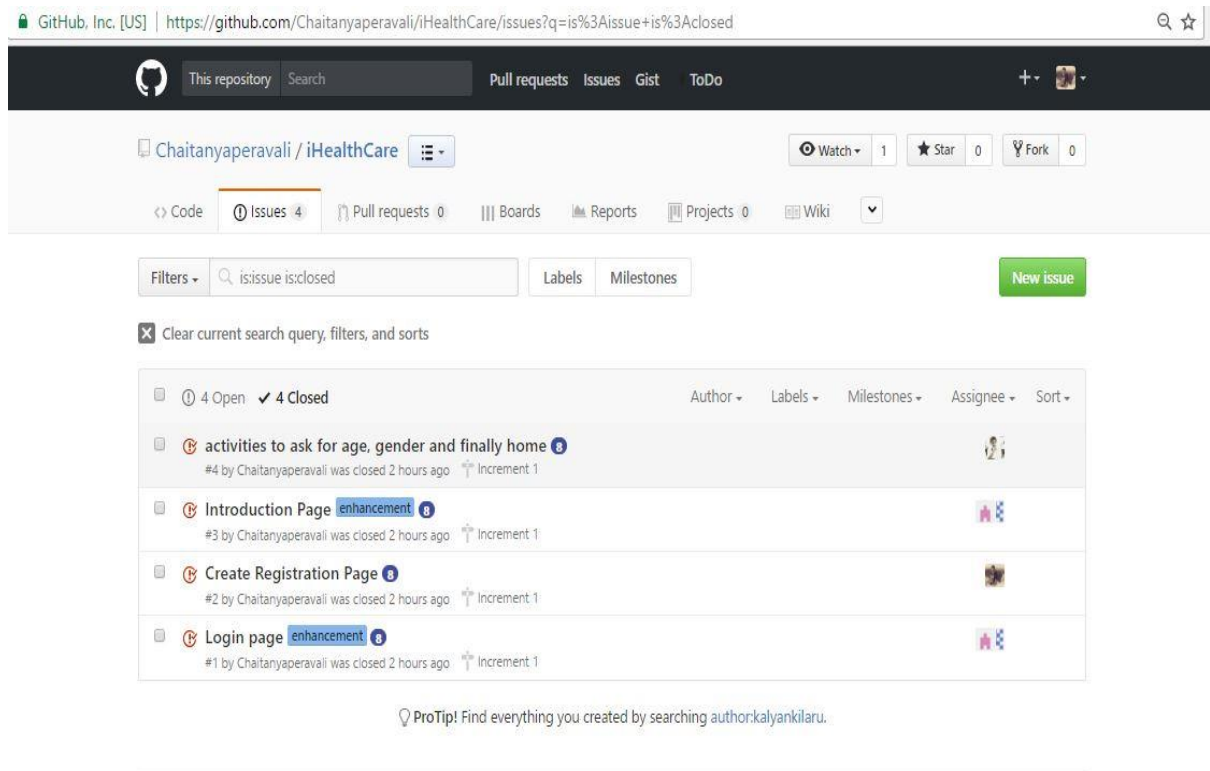
This app provides the feel as if the patient is speaking to a doctor on a medical condition. Apart from diagnosis, it also supports the patient by selecting a doctor and scheduling an appointment. This app is a single place where patient can get all these features.

# 3.Project Plan

## 1.Zen-Hub Screenshot

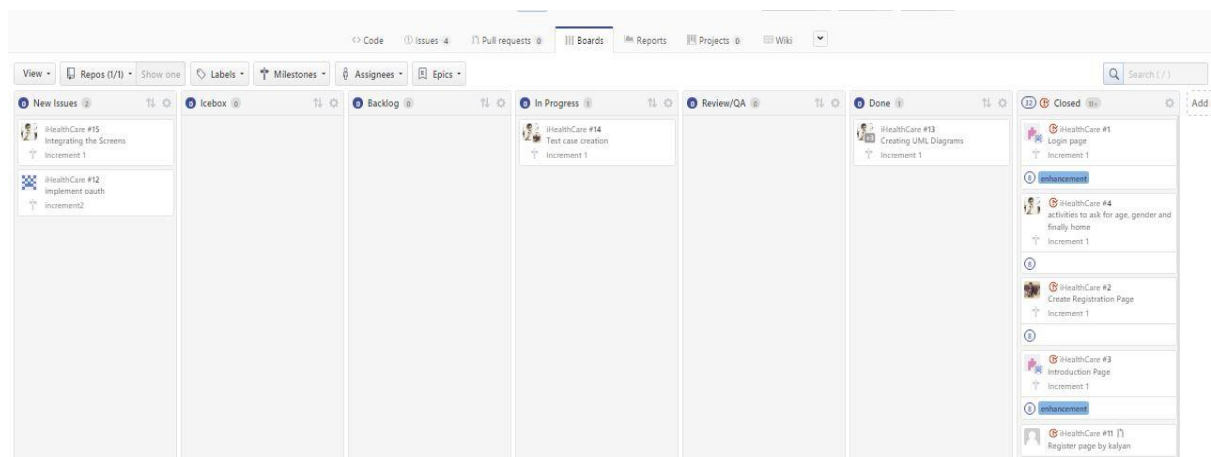
For the first increment, we had issues in Zen-Hub for creating Introduction, login, sign up and home screens. Apart from that, we had issues like designing the UML diagrams, creating test cases and integrating all the modules.





## 2. Project Timelines, Members, Task Responsibility

Below is the screen shot of the boards, which tracks the issues and the state of the issues like in open state, review, in progress and closed states etc. This also shows the milestone of each issue.

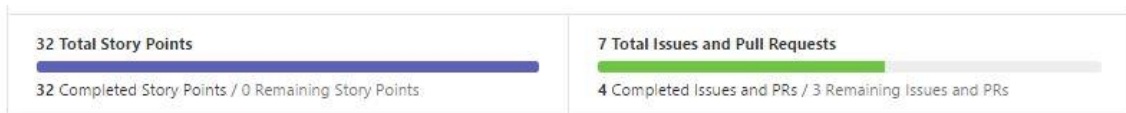


### 3. Burndown Chart

The burndown chart for the total issues which are in open and closed status.

#### Increment 1

This is increment 1 in project.



Remaining Issues and Pull Requests	Story points
① Creating UML Diagrams iHealthCare #13     Done	Not estimated
① Test case creation iHealthCare #14     In Progress	Not estimated
① Integrating the Screens iHealthCare #15     New Issues	Not estimated

Completed Issues and Pull Requests	Story points
Ⓟ Login page <span>enhancement</span> iHealthCare #1	⑧
Ⓟ Create Registration Page iHealthCare #2	⑧
Ⓟ Introduction Page <span>enhancement</span> iHealthCare #3	⑧
Ⓟ activities to ask for age, gender and finally home iHealthCare #4	⑧

## 4. First Increment Report

### 4.1 Existing Services

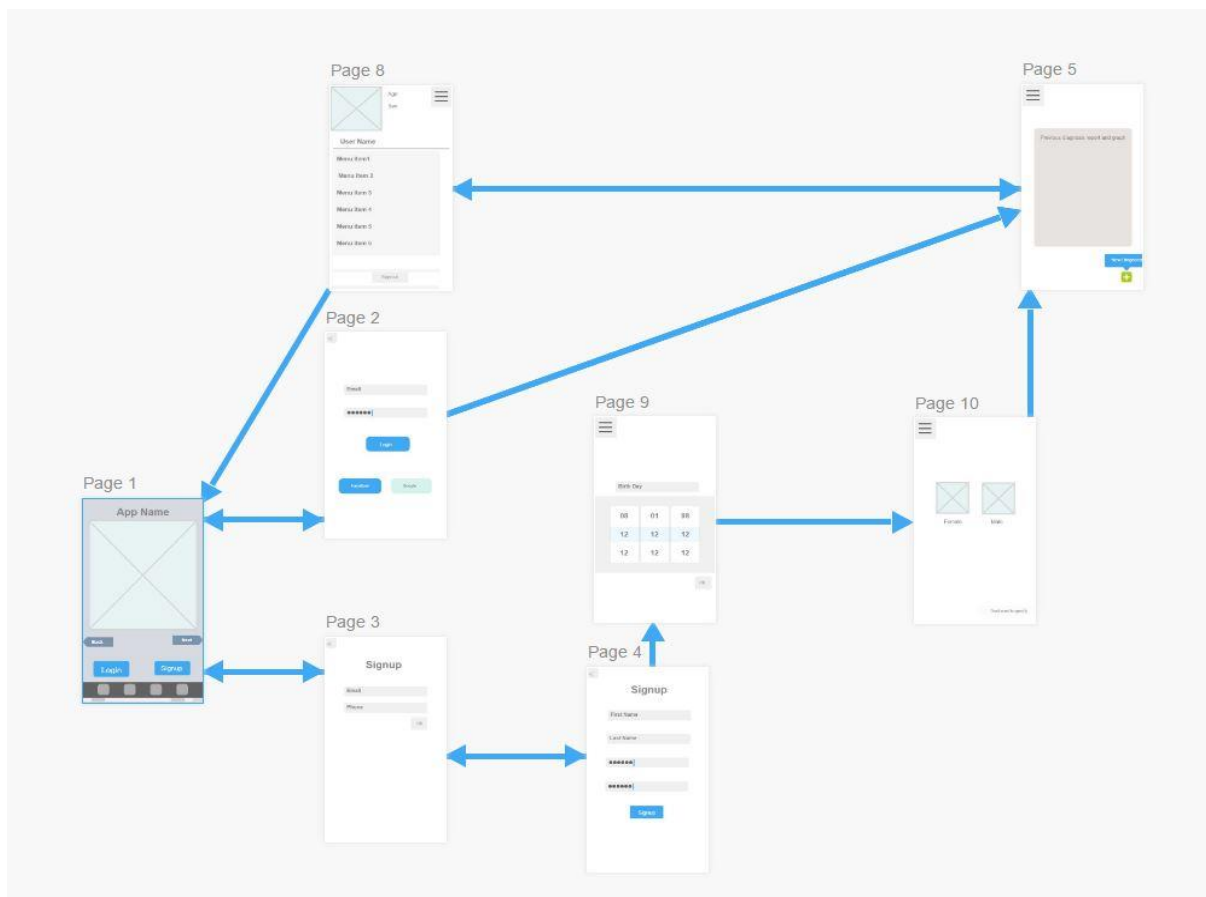
The below mentioned API's will be used in the next increments to make it a user-friendly application.

- Facebook Authentication API
- Google Authentication API
- Infermedica
- Better Doctor API
- Google Maps API

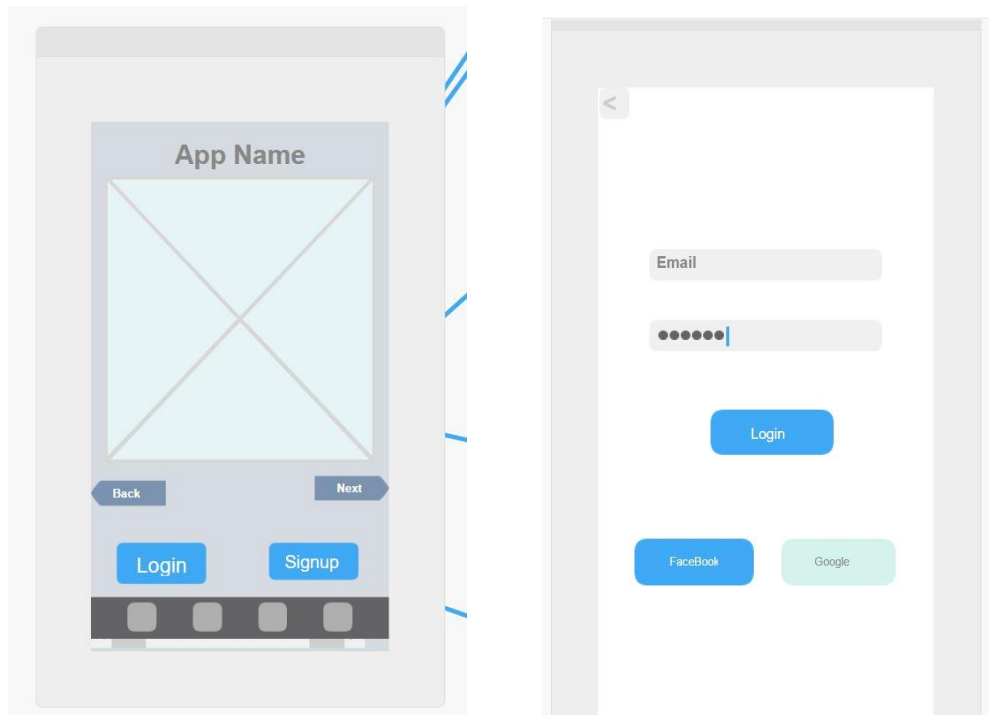
### 4.2 Detail Design of Features

#### 4.2.1 Wireframes:

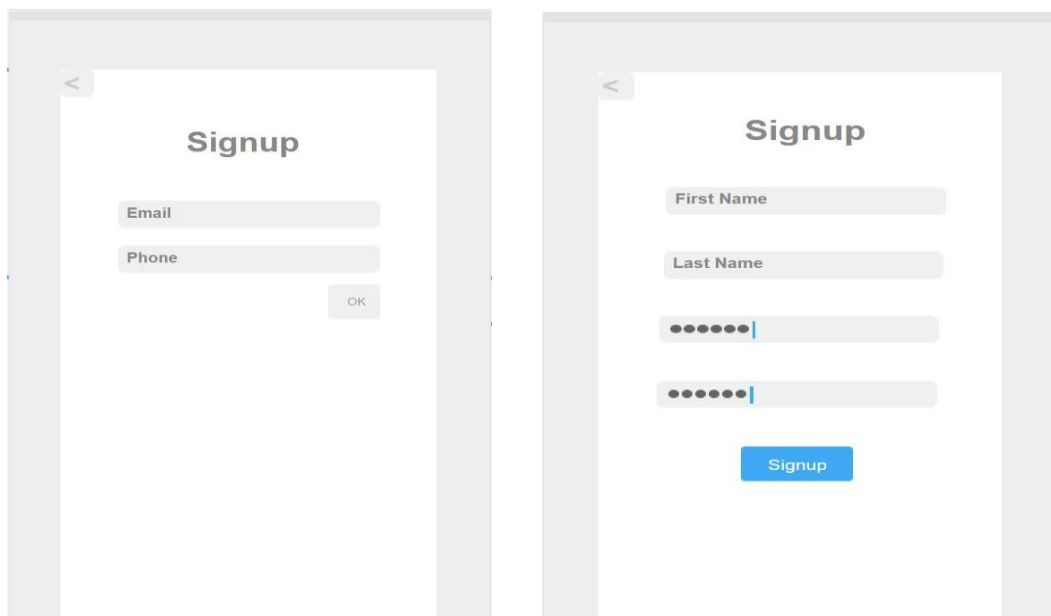
#### Flow Chart:



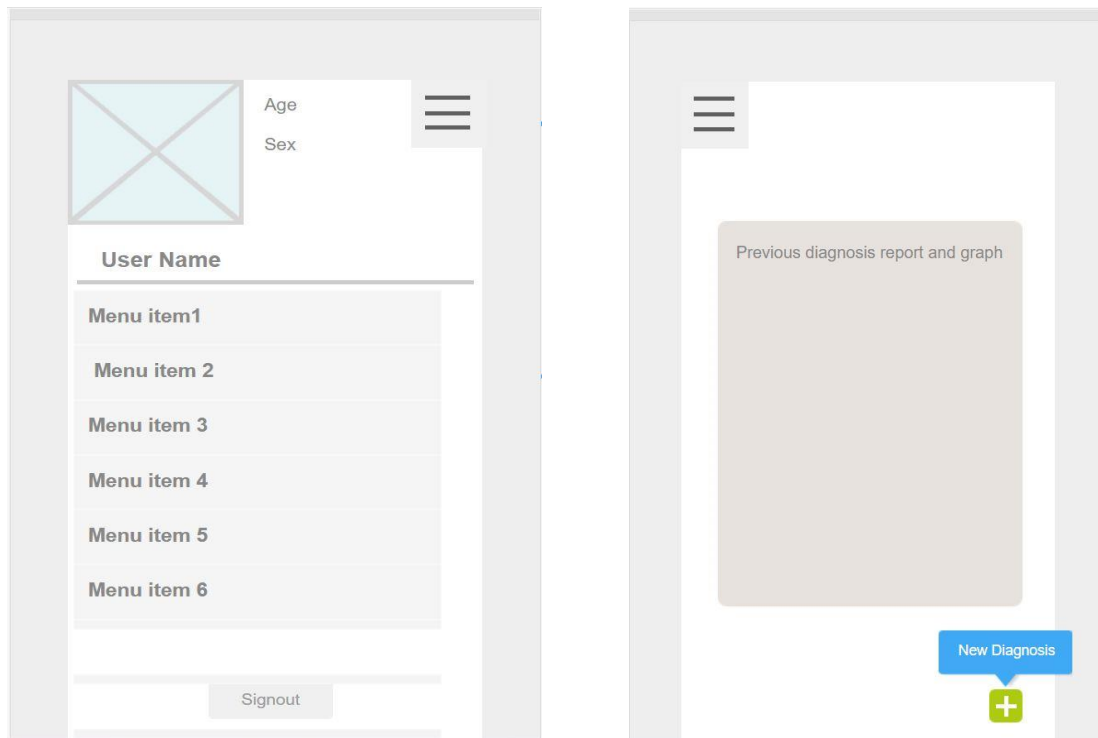
## Introduction and Login Screen:



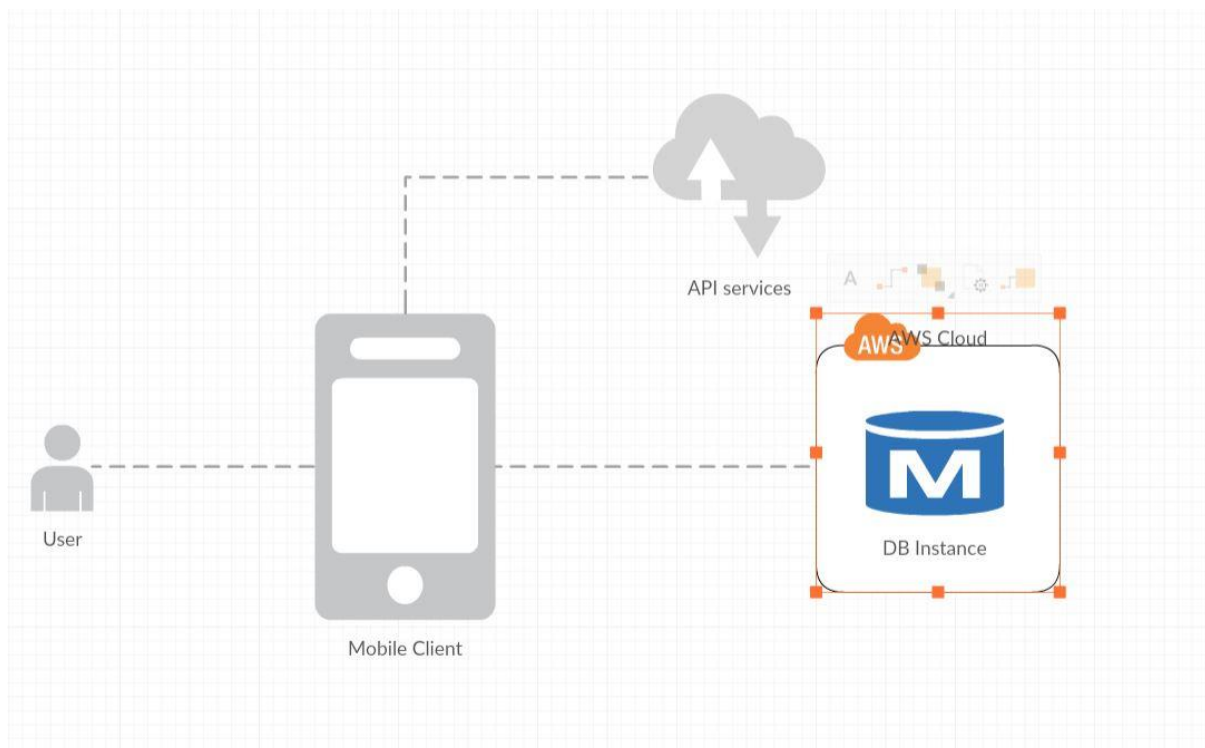
## Sign Up Screen:



## Home and Diagnosis Screen:

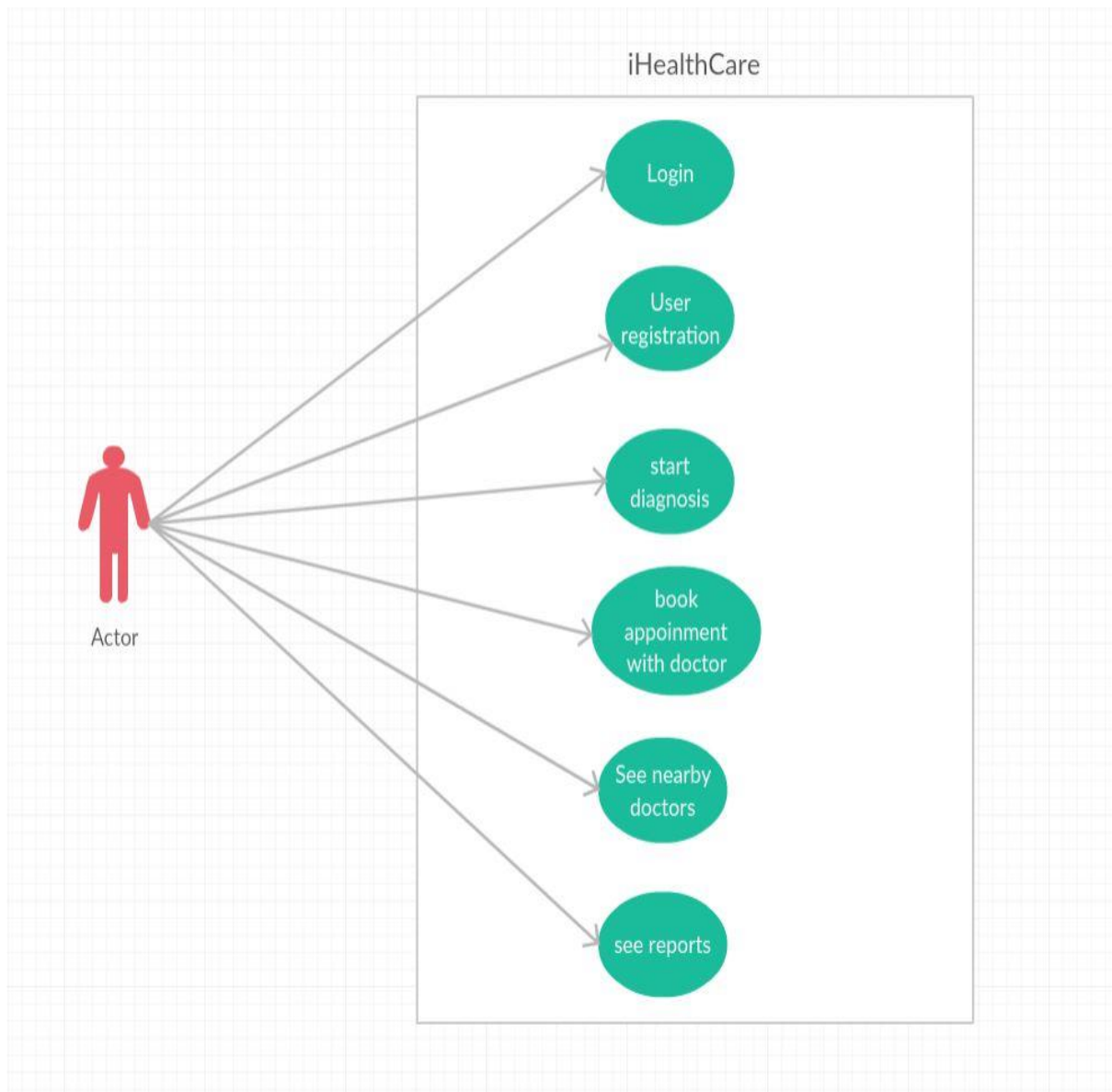


### 4.2.2 Architecture Diagram:





#### 4.2.2 Use Case Diagram:

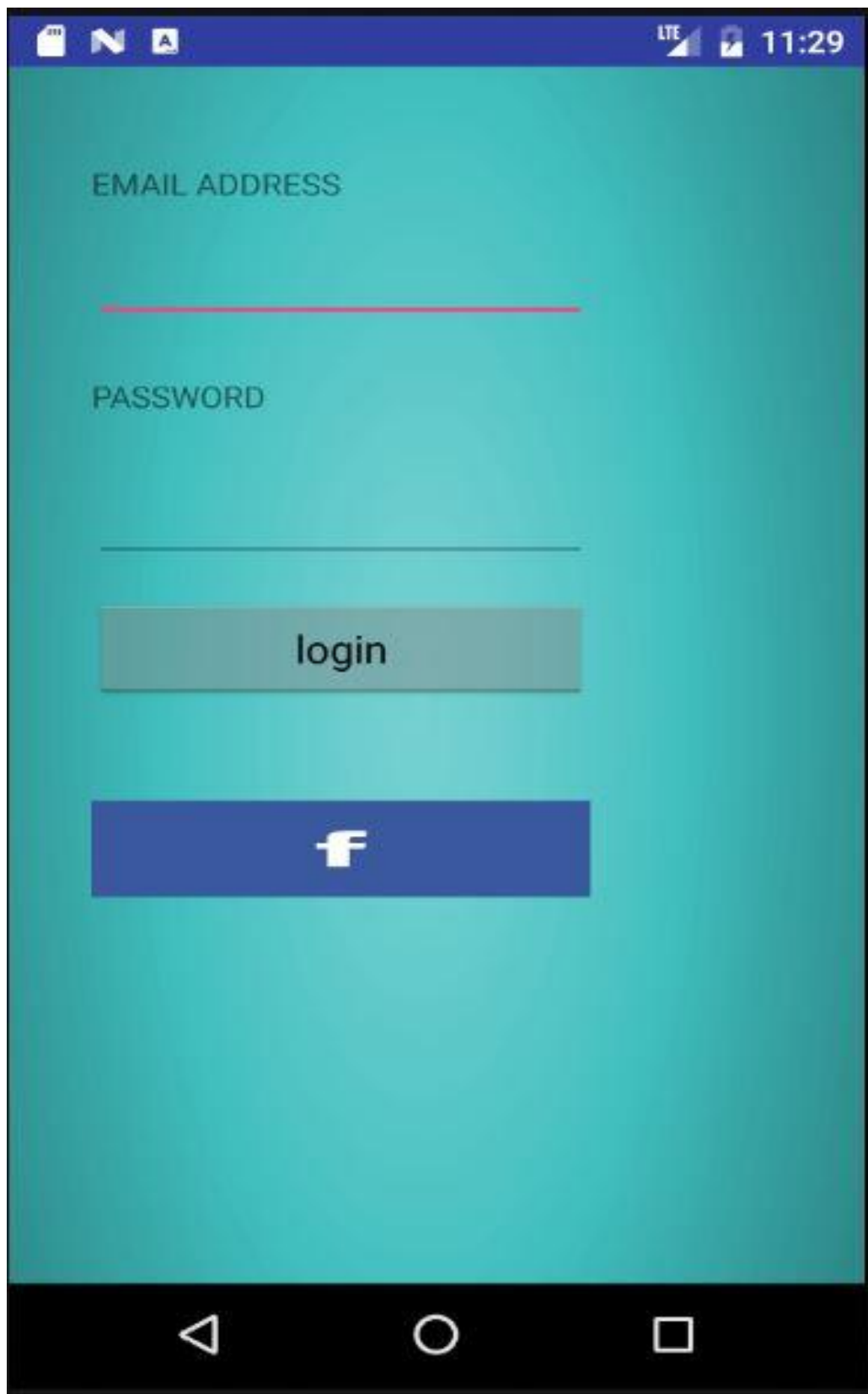


## 5. Implementation and Deployment

Screenshots of implementation:









Sign Up

Email

Phone

OK

**Sign Up**

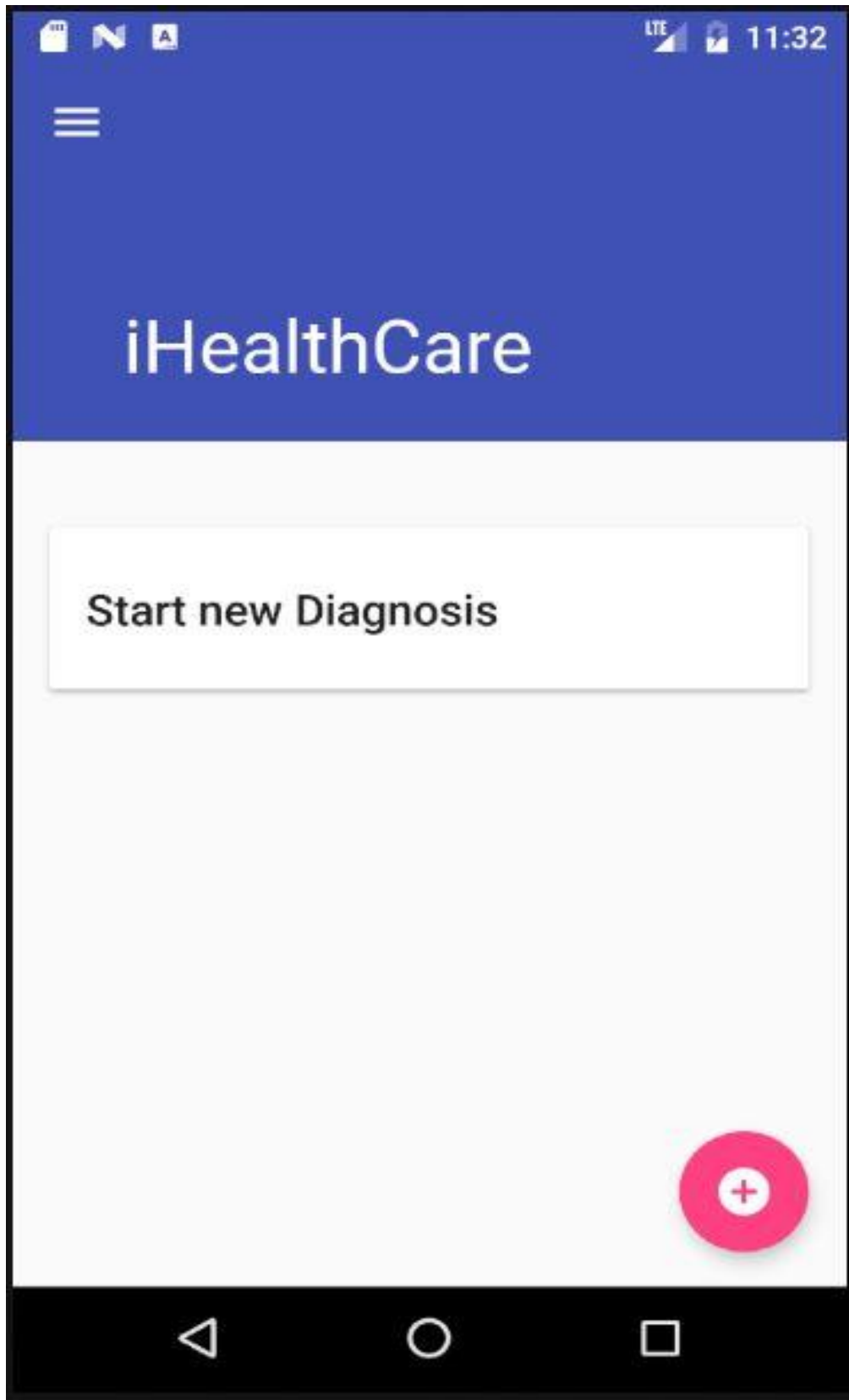
First Name

Last Name

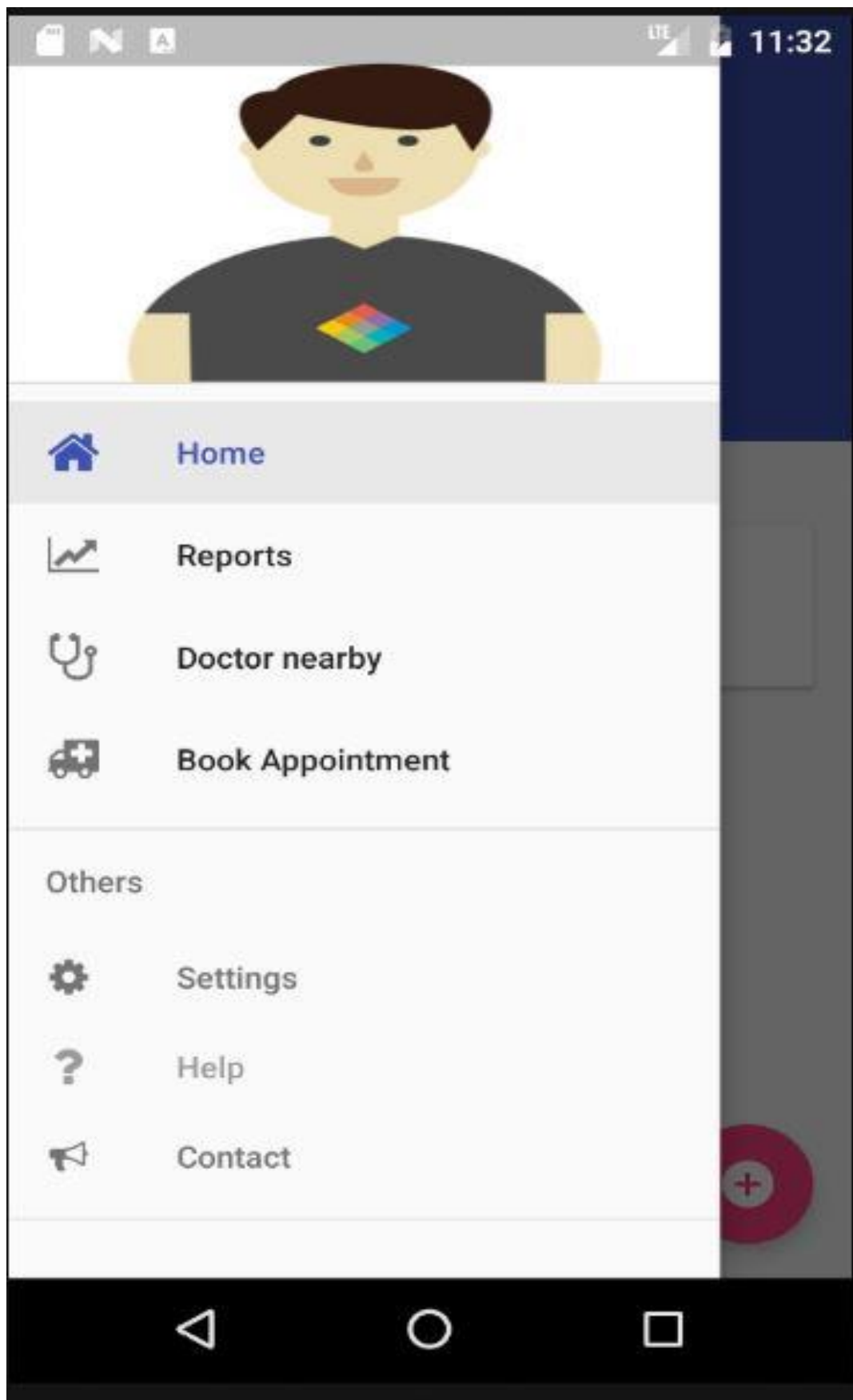
Password

Confirm Password

**SIGN UP**







## 6. Project Management

### Work Completed:

- Design and Architecture of the application  
Introduction, login and sign up screens using Android studio  
Collecting the API's Information

### Work to be Completed:

Implementing all the web services,

Google OAuth

Facebook OAuth

Infermedica