ITVerse
Hack The Verse

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Problem Identification

We are working on trying to deliver covid patients data obtained from “sensors”, health workers and users themselves to specialists and doctors in a very presentable way, so the doctor can very easily check the condition of the covid patient(s) assigned to him and be notified when one is in critical condition.

Risk Analysis

1. There is a possibility that spammers can flood this application with false information.
2. The information provided by the patient might be corrupted

   We are willing to implement spam detection, to avoid the possibility of the system getting flooded.

Idea Formulation

In this situation,our hospitals don’t have much vacancy to admit all the patients and take proper care of them. So it would be great if patients can receive proper guidelines and stay under continuous monitoring by staying at home. The patients will be able to make appointments with just one click. Also he will be getting statistics of his health condition and notifications for taking medicine on time. So, we are actually presenting you with a complete package of healthcare facilities at your doorstep.

And for hospitals, our automated systems will help doctors keep track of all their patients way efficiently and effectively. This will allow hospitals to allow some more covid patients and some some more lives, just by using a simple software.

Implementation Plan

In this restless pandemic situation, we are in need of a complete software system which can provide us with different medical facilities. So to resolve this situation, we bring you our app “Find my doc” which basically focuses on the healthcare and monitoring of covid patients.

The app will take patient’s health information as input regularly from cloud database such as Firestore or Kafka which will be collected by using sensors, totally automated, or from manual inputs in absence of sensors and provide you with a more visualized and understandable form(such as bar diagram) of a patient’s daily health parameters such as temperature, blood

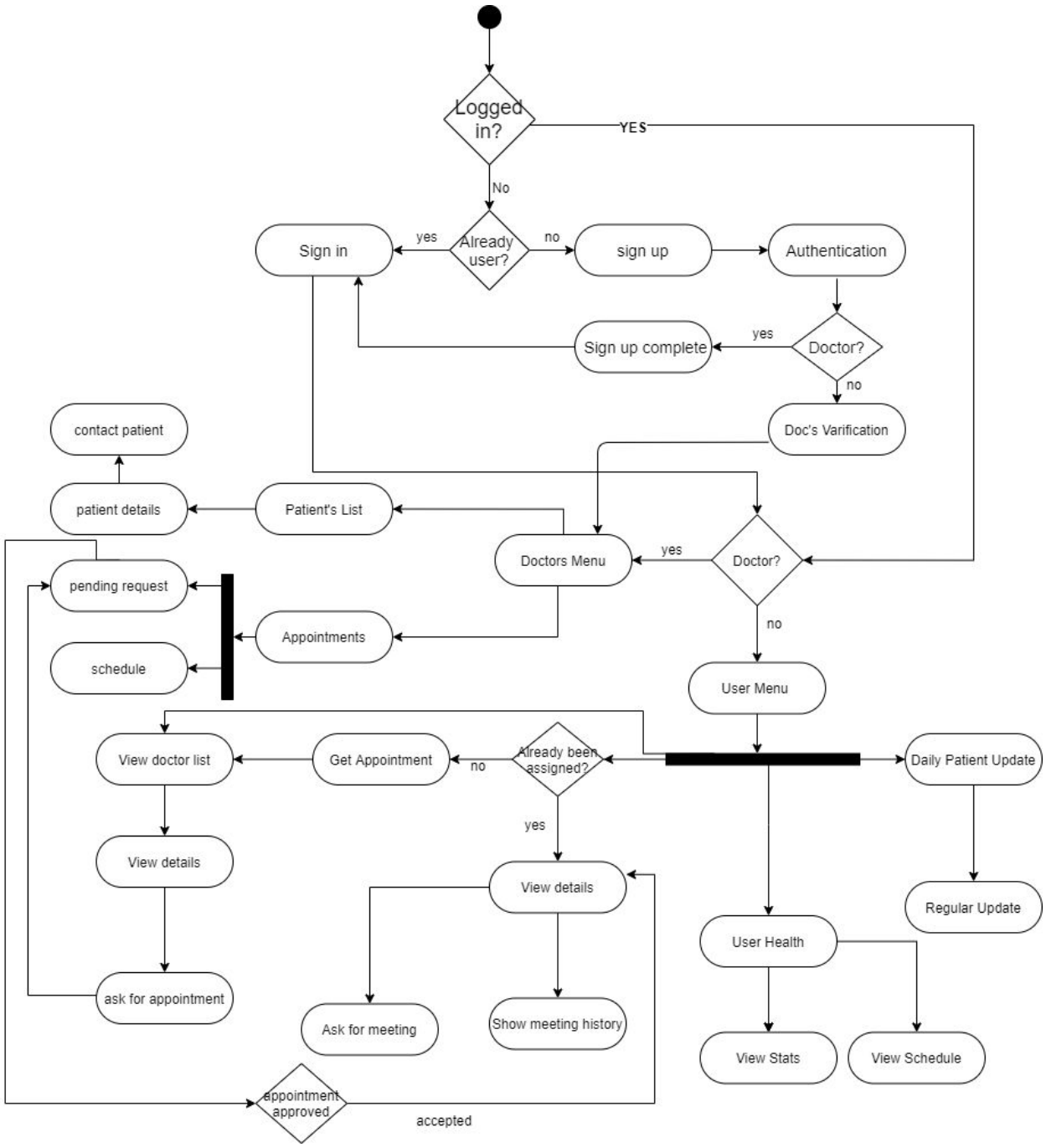
pressure, etc. If any health parameters reach threshold value the patient will be notified immediately. The patient can also make appointments to hospitals and specialist doctors. Furthermore , he can seek advice from the emergency department . The hospital management system will sort the patients lists for each doctor and the doctors will be able to see the medical history of each of their patients. According
to the prescription of the doctors, the patients will receive a notification to take medicines on time.

Work Progress

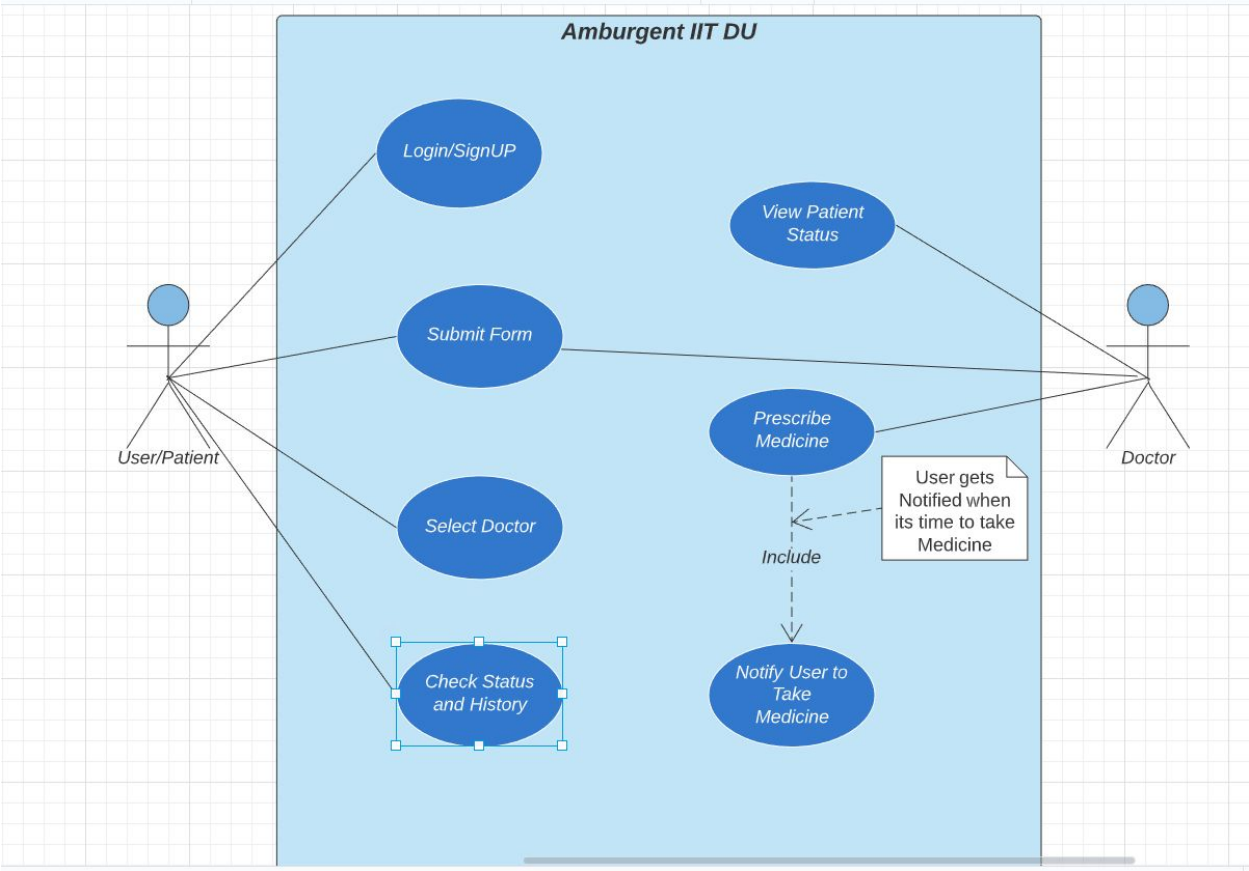
1. Started our app UI designing.
2. Started working on the user authentication process.

Documentation

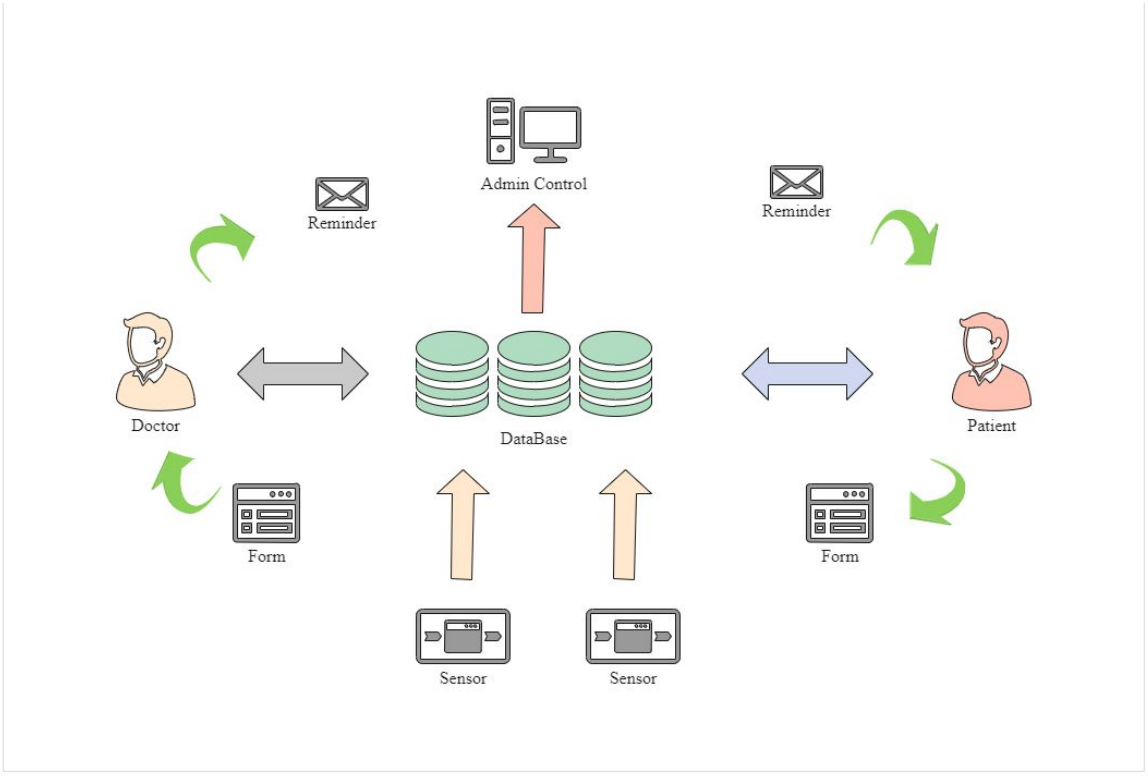
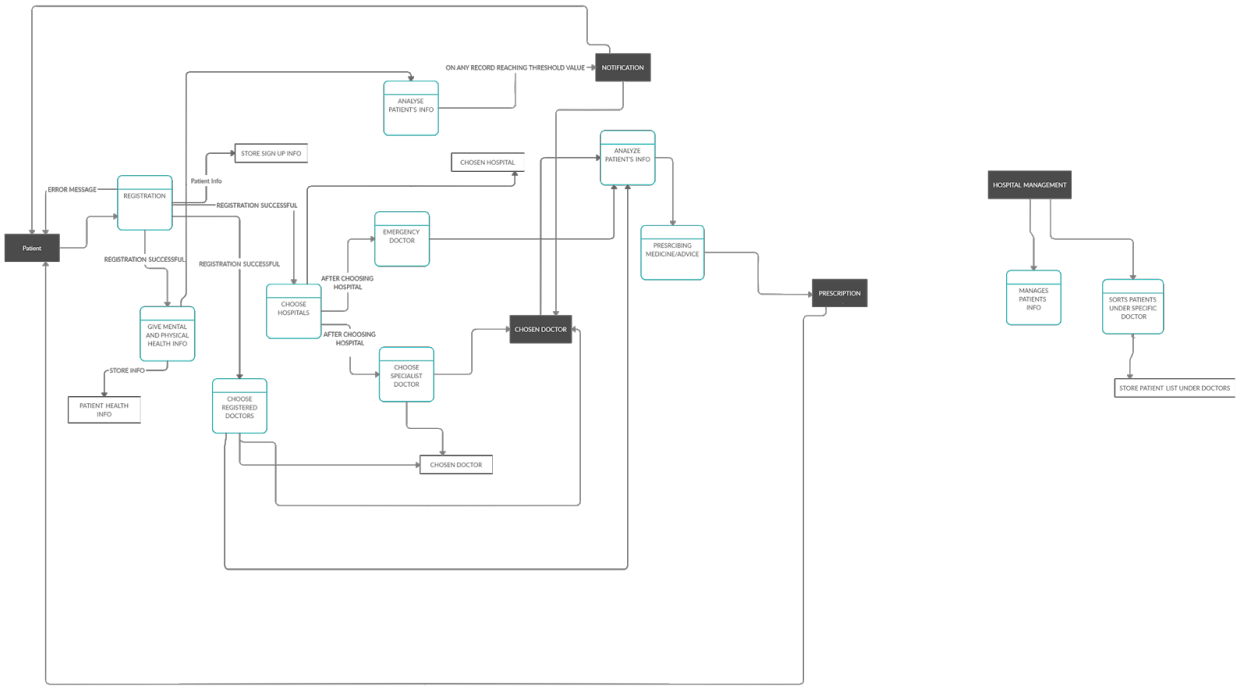
Activity Diagram :


Logged in?
YES
No
Already user?
yes
no
Sign in
sign up
Authentication
Doctor?
yes
no
Sign up complete
Doc's Varification
contact patient
patient details
Patient's List
Doctors Menu
yes
Doctor?
pending request
Appointments
schedule
no
User Menu
View doctor list
Get Appointment
no
Already been assigned?
Daily Patient Update
yes
View details
View details
Regular Update
User Health
ask for appointment
Ask for meeting
Show meeting history
View Stats
View Schedule
appointment approved
accepted

Use Case Diagram :



Data Flow Diagram :



Architecture Diagram :