

PROJECT ABSTRACT

TEAM 5 - HEALTHCARE RECORD MANAGEMENT APPLICATION

Objective

This project aims to develop an application for convenient tracking of medical history of the user. It does so by providing a mechanism for documentation of medical prescriptions and medications. It further enables the user to search for a particular diagnosis or medicine through a variety of criteria like date, medicine name, doctor name. The mobile app is designed specifically for students living in hostels and consult the institute healthcare centre. The web application is more broad and allows use for any patient to record the medical history. This procedure will help the patient to effectively search and retrieve the medical data as and when required, and moreover, it will allow the consulted doctors to understand the diagnosis and medicines in the past and hence allow them to give informed advice with respect to the disease and the person's health.

Functionalities

The mobile app has two modules. First module allows the user to record the diagnosis, prescribed medicines along with the doctor's name. It also enables the user to scan and upload the corresponding prescriptions by date. The next module is for search and retrieval, wherein the user can enter some criteria and recover the data. It also has an emergency calling feature for contacting hostel warden, institute health centre and ambulance.

The web application has 6 broad modules. It allows users to upload prescriptions, keep track of symptoms and health log, add the contact details of the consulted doctors and health clinics. Furthermore, it also has a feature to keep track of appointments and provides brief charts about health conditions during routine examination.

Tech Stack

Mobile app: Flutter, Dart, API gateway, Python, Lambda functions (for server side scripting), DynamoDB (backend)

Web application: MongoDB, Express.js, React.js, Node.js
