

INTEGRATED DESIGN PROJECT (IDP-II) CSE-460

SYSTEM DEVELOPMENT REPORT

(GROUP ~HOTEL, SEC~A) PREDICTIS

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1. Required Platform

| Name | Deacription |
|---------------------------------|--|
| Android studio Android Studio | Android studio is the integrated development environment for Google's android platform. We used android studio to build our frontend user interface. |
| Firebase Firebase | It is a free online database to store the dataset used in our project. We used it to build our backend for the android app. |
| Github GitHub | Git and Github are used for collabortaing the whole project sonthe team can work remotely then merge it centrally. |
| Arduino ARDUINO | Arduino is an IDE for microcontrollers. We used nodeMCU as microcontroller and the code is burned in the nodeMCU by this IDE. |
| Tensorflow TensorFlow | Tensorflow is an end-to-end open source platform for machine learning. It is used for model building in Google-colab using keras module. |
| Anaconda ANACONDA. | Anaconda is a distribution of the ppython and R programming languages for scientific computing, that aims to simplify package management and deployment. We are using it for data processing with pandas. Pandas is a common Python tool for data manipulation and analysis. |
| Jira ◆ Jira Software | Jira software is built for every member in a software team to plan track and release software. |

Platform used for front-end:

Android Studio



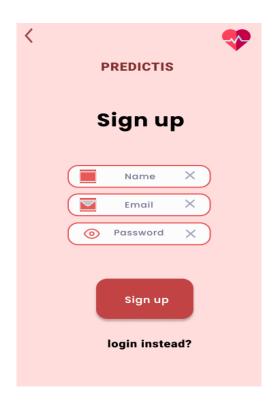
Platform used for back-end:

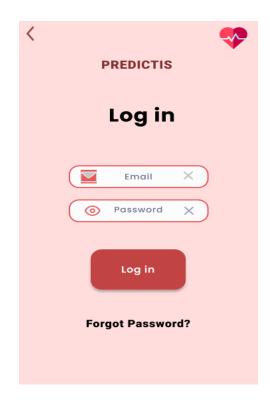
Firebase

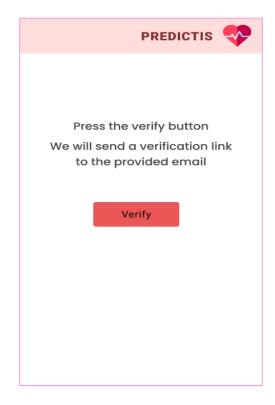


2. Snapshot of UI

Sign up, log in, authentication and menu:

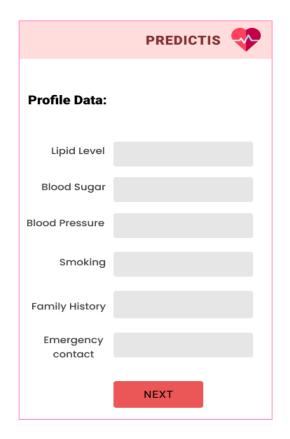


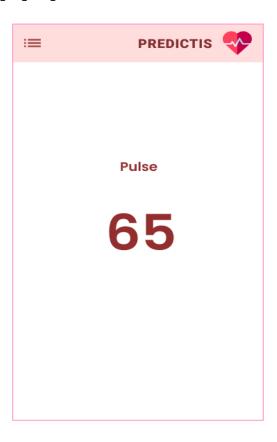




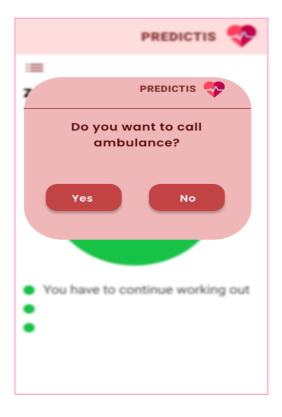


Profile data and zone classification and pop up notification:







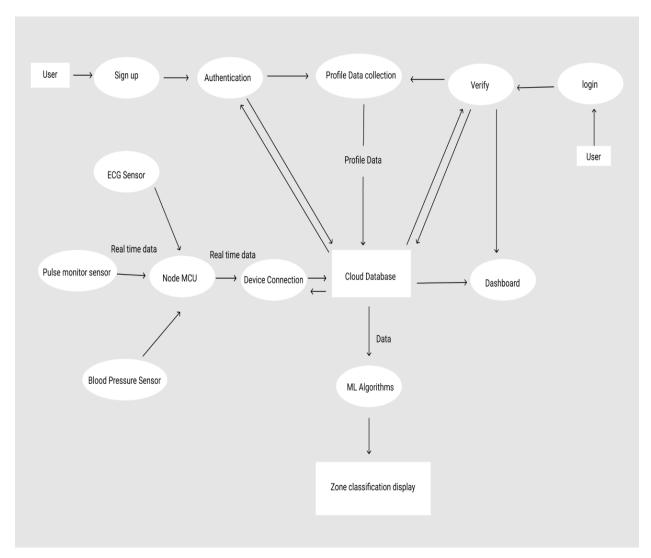


3. Senario and DFD

Senario 1:

Mr Mannan is a middle aged person. His childhood friend recently had a heart attack and this made him very cautious about his own heart condition. He decided to check if he has any heart risk and also wanted to get it checked. He used the predictis app to do so.

DFD 1:



Senario 2:

Mr X is an existing user of predictis. Recently he has been classified in yellow zone (yellow zone means the user has mild risk of having heart disease). Predictis app guided him with some health consultations following which he could improve his health condition. He was given some doctors' consultation and diet consultation. Also he could do an emergency contact using this app if he needed to.

DFD 2:

