TheFutureHealth

Click the app, get your diagnosis!

A HEALTHCARE APPLICATION

Timeline

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1 **Introduction to the project**

TheFutureHealth

GENERAL STATUS

PROJECT INFORMATION

WHY CREATE OUR APP?

Research has demonstrated significant growth in digital health. Patient experience and mobile engagement are driving improvements across the healthcare industry. It is anticipated that the IoMT market will grow by 30.8 percent annually, reaching $159.1 billion by 2022 and $254.2 billion by 2026.

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BENEFITS

TheFutureHealth app can make it convenient to view, update, and share a patient's medical information in order to track their health. Patients can have quick access to their medical information, which can then decrease the time spent constantly filling out or figuring out healthcare required documentation.

Furthermore, the app can benefit anyone dealing with numerous debilitating diseases, who might need immediate diagnosis.

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TheFutureHealth

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OUR PURPOSE

To build an integrated, one stop healthcare application for all.

OUR VISION

To store health information for quick access. and to help predict the most probable disease the user might be facing.

OUR MISSION

Through Data Science methods, we analyze geographical health symptoms data to predict a user's most probable diseases.

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VALUE ANALYSIS

The user can pay for each diagnosis or can choose to subscribe(weekly/monthly/yearly) for the diagnosis based on the frequency. The App provides flexibility and affordability across the board. Elastic pricing allows you to prevent unnecessary costs. No upfront payments.

With on-demand diagnosis, the app analyses the inputs and gives diagnosis real-time without the hassle of going to a doctor or waiting for a day to get a report.

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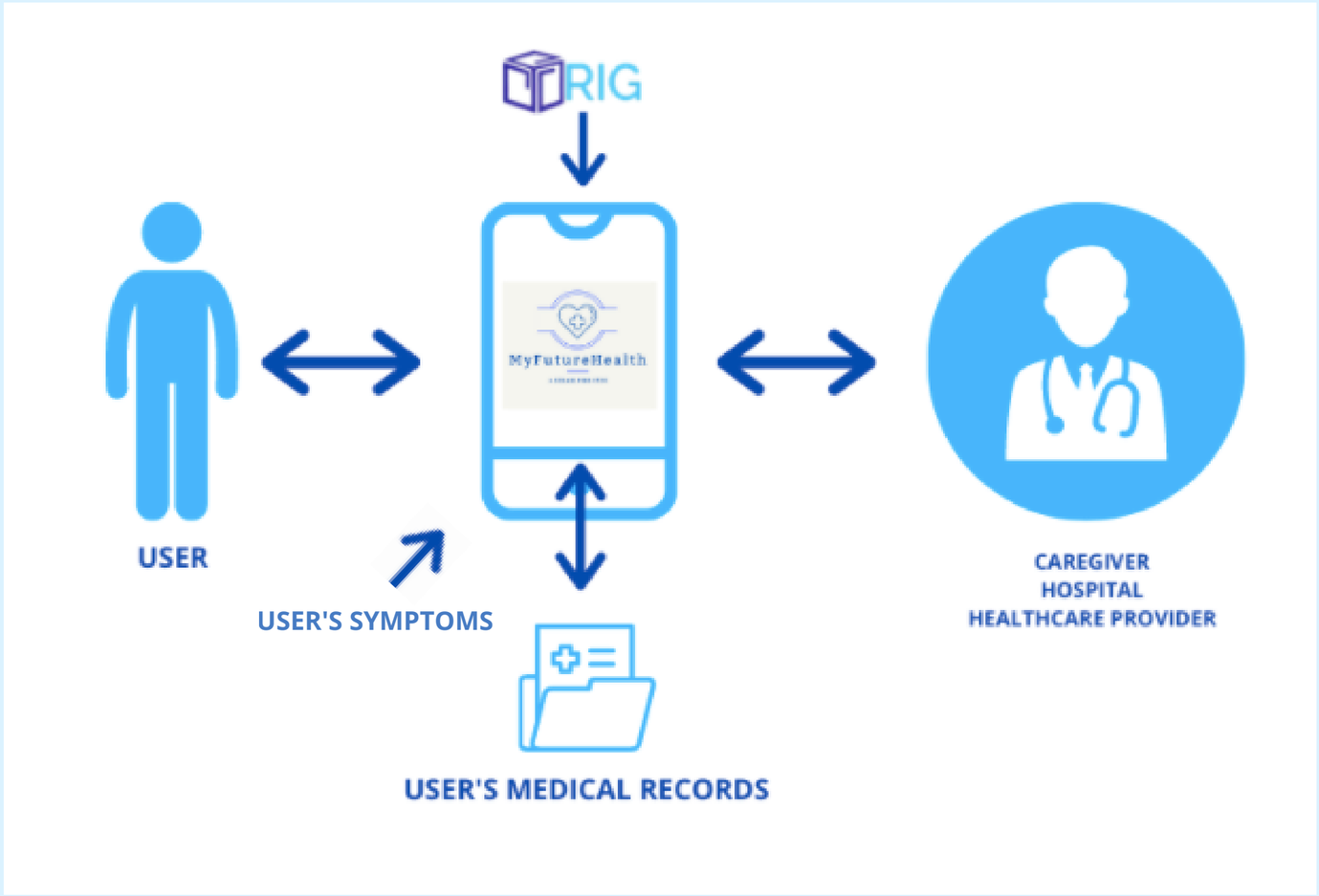
RISKS

- Maintaining the Healthcare Complainces
- Handling multiple requests and holding data securely
- Ingestion of new tools/services
- Performing regular checks on the existing as well as newly created data

USE-CASE



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The Role of RIG

GENERAL STATUS

RIG INTEGRATION

TheFutureHealth application will evaluate a user's symptoms and predict the illness they might be facing. Furthermore, the app can share a user's self-diagnosis, along with their medical records, with healthcare providers, caregivers, and hospitals.

TheFutureHealth will incorporate Dynamic Trust by being a measure of the *Verification Layers* with respect to the user's current or updated health information.

Level	Description	Nature
Level 0	Created a login and password.	**Copper**
Level 1	Completed about 25% of the health information required.	**Bronze**
Level 2	Completed about 50% of the health information required	**Silver**
Level 3	Completed about 75% of the \health information required	**Gold**
Level 4	Completed about 95% of the health information required	**Premium**
Level 5	Completed the health information required and it is Current/ Updated in real time.	**Elite**

Table for Dynamic Trust℠ as a Validation Protocol

3

Results & Methods

INCOMPLETE STATUS

SYMPTOMS & MEDICAL HISTORY

DISEASE PREDICTION

The dataset has 40 diseases and over 200 symptoms.

The dataset was cleaned and then the symptoms were encoded according to their severity weight. Then, the diseases and encoded symptoms were stored in separate dataframes.

3

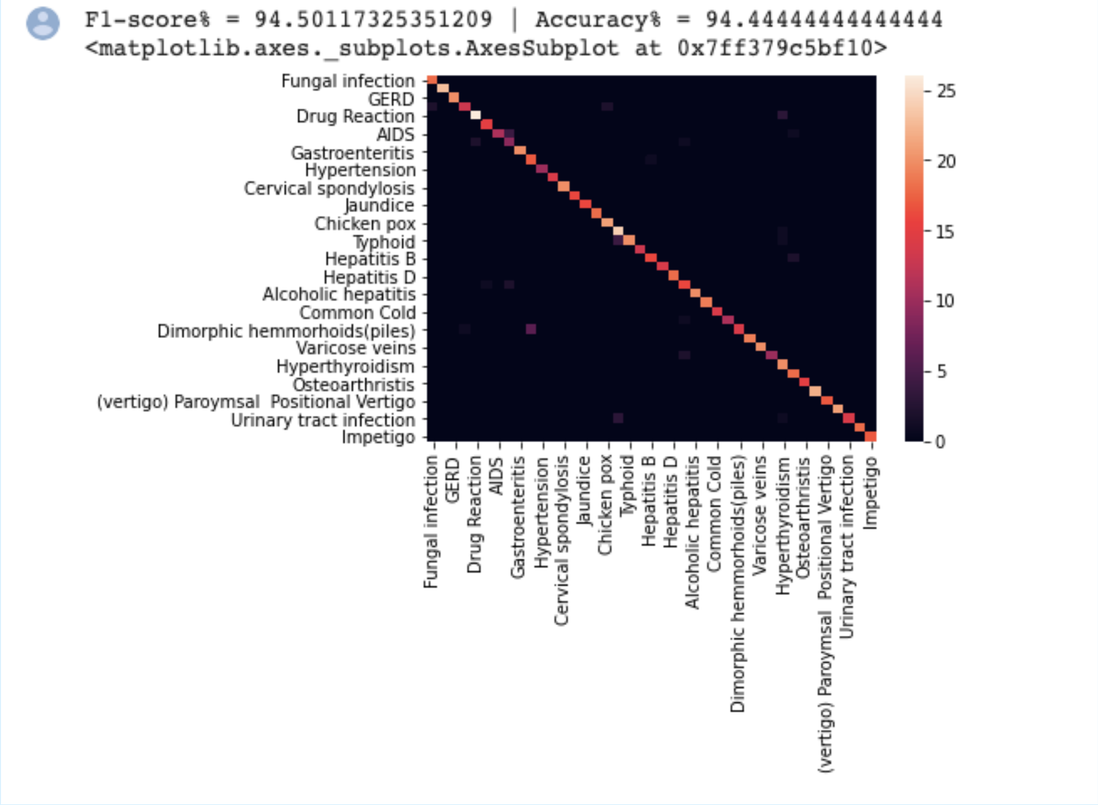
Results & Methods

INCOMPLETE STATUS

SYMPTOMS & MEDICAL HISTORY

DISEASE PREDICTION

Next, the data was splitting into a test and train, and a confusion matrix was created.



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App Demo

IN PROGRESS

THEFUTUREHEALTH

Overview of Goals

1

CREATED THE GUI WITH KIVY

- Created the main screen
- Created two other screens:
  log in and sign up screen
- Created a welcome screen for symptoms selection and user navigation

2

THE DATASET

Selected the dataset and implemented data analysis

3

DATA INTEGRATION

Complete data integration and update the application

DONE

ONGOING

- Aesthetics of the GUI
- Navigation drawer and its content:
  - User's profile image
  - Email and name text
  - Notifications
  - Settings
  - Logout button
- Create a profile screen:
  - Upload document button icon
  - Medical history information
  - Previous symptoms logged
  - Disease Prediction History
- Data Integration:
  - Disease prediction after selecting the symptoms

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Conclusion

IN PROGRESS

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Thank you!

Any questions?