Phase 6
Application Performance Metrics

Date	08 November 2022
Team ID	PNT2022TMID28916
Project Name	Project - Visualizing and Predicting Heart Diseases with an Interactive Dash Board
Maximum Marks	4 Marks

Error Rates:

```
print('Logistic Regression :',l)
print('KNN :',k)
print('Naive Bayes :',n)
print('Decision Tree :' ,d)
```

```
Logistic Regression : 0.8271604938271605
KNN : 0.6111111111111112
Naive Bayes : 0.7794117647058824
Decision Tree : 0.7962962962962963
```

Accuracy Percentages:

The number of wrong predictions on the test set as a whole divided by all of the test set predictions yields the error rate. Since accuracy and error rate are complementary quantities, we can always compute one from the other.

Accuracy = 1 – Error Rate

Error rate=1-Accuracy

Logistic Regression: 0.82

KNN: 0.61

Naïve Bayes: 0.77

Decision Tree: 0.79

Calculating the error rates:

Logistic Regression: 1-0.82 = 0.18

KNN: 1-0.61 = 0.39

Naïve Bayes: 1-0.77 = 0.23

Decision Tree: 1-0.79 = 0.21

The Error rates are:

Logistic Regression:	0.18
KNN:	0.39
Naïve Bayes:	0.23
Decision Tree:	0.21

Response Time:

The response time is not too long as our project as we have used real time data analysis. So, once the user enters his/her data in the Heart Disease prediction phase then the data will immediately be displayed so the response time is very less.

Our output is given below,

Request Rate:

Due to the usage of real-time data analysis in our project, the request rate was not excessively long. As a result, there is very little response time once the user inputs their information during the Heart Disease prediction phase.

Our Login Page,

```
=== RESTART: C:\Users\write\OneDrive\Desktop\Heart
<mysql.connector.connection_cext.CMySQLConnection
('heart1',)
1 record inserted.
Jenefa


Heart


Exception in Tkinter callback
Traceback (most recent call last):
  File "C:\Users\write\AppData\Local\Programs\Python\Python37\lib\tkinter\__init__.py", line
    return self.func(*args)
  File "C:\Users\write\OneDrive\Desktop\Heart Project\dup2frontend.py", line 49, in login_dat
    cur.execute("SELECT * FROM heart1 WHERE user_name=? AND password=?",(e1.get(),e2.get()))
```

Customer Experience:

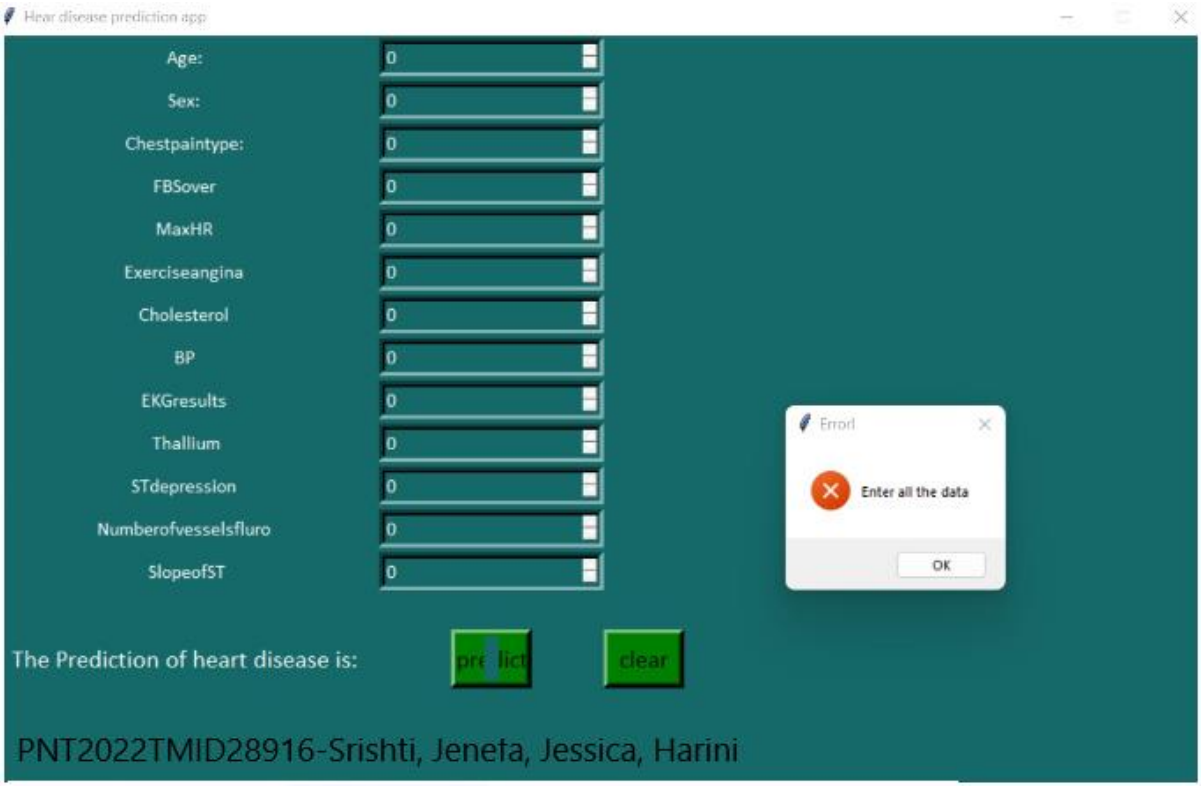
Our Application is very easy to use. Initially it has login page which makes the application very secured. If user enters correct username and password then it moves to predicting page. In the predicting page the user enter his medical history (data), after which it predicts the whether there chance of heart disease or not. People will get a clear vision upon heart disease and the symptoms.

It is User friendly and very functional and Reliable.

Example, if the user does not enter the value then an Error appears.

This will give instant alerts to the user and provides a great user experience.

PNT2022TMID28916



Done By:

- Srishti R
- Jenefa Regina Mary J
- Jessica Tiffany D
- Haini M

Team ID: PNT2022TMID28916