


## Project Development Phase – Sprint 4

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Project Name	Visualizing and Predicting Heart Diseases with an Interactive Dash Board
Project mentors	Industry mentor - Mahidhar, Saumya Faculty mentor – Dr. Arulkumar Venkatachalam

### Predict Page:

**Visualising and Predicting Heart Disease**

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**Please Enter the below details**

Age:

Sex(0-Male 1-Female):

Chest pain type(1-4):

BP:

Cholesterol:

FBS over 120(Yes-1 No-0):

EKG results(0 or 2):

Max HR:

Exercise angina(0 or 1):

ST depression(0-6.2):

Slope of ST(1 or 2 or 3):

Number of vessels fluoro(0-3):

Thallium(3 or 6 or 7):

**Predict**

Result:

On clicking with missing values or empty fields:

Please Enter the below details

Age:

Sex(0-Male 1-Female):

Chest pain type(1-4):

BP:

Cholesterol:

FBS over 120(Yes-1 No-0):

EKG results(0 or 2):

Max HR:

Exercise angina(0 or 1):

ST depression(0-6.2):

Slope of ST(1 or 2 or 3):

Number of vessels fluoro(0-3):

Thallium(3 or 6 or 7):

Result: Please enter values in all the fields

Predicting by entering values:

Please Enter the below details

Age:

Sex(0-Male 1-Female):

Chest pain type(1-4):

BP:

Cholesterol:

FBS over 120(Yes-1 No-0):

EKG results(0 or 2):

Max HR:

Exercise angina(0 or 1):

ST depression(0-6.2):

Slope of ST(1 or 2 or 3):

Number of vessels fluoro(0-3):

Thallium(3 or 6 or 7):

Result: Oh no! The Probability that you may get a heart disease is High :(

**Please Enter the below details**

Age: 44

Sex(0-Male 1-Female): 1

Chest pain type(1-4): 2

BP: 130

Cholesterol: 220

FBS over 120(Yes-1 No-0): 0

EKG results(0 or 2): 0

Max HR: 170

Exercise angina(0 or 1): 0

ST depression(0-6.2): 0

Slope of ST(1 or 2 or 3): 1

Number of vessels fluro(0-3): 0

Thallium(3 or 6 or 7): 3

**Predict**

**Predict**

**Result: Yayy! The Probability that you may get a heart disease is Low :)**

## On clicking home page:



### Visualising and Predicting Heart Disease

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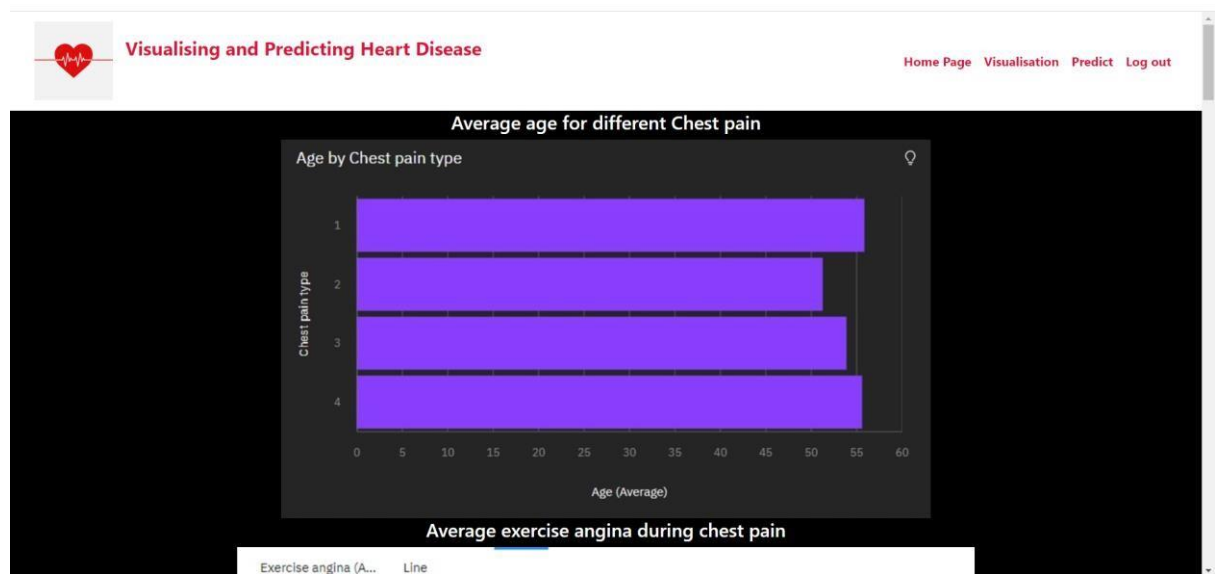
### Welcome to our Project

The leading cause of death in the developed world is Heart disease. Therefore, there needs to be work done to help prevent the risks of having a heart attack or stroke. The aim of this project to use a dataset to predict which patients are most likely to suffer from a heart disease in the near future using the a set of features given. The features include:

- Age
- Sex
- Chest Pain Type
- Blood Pressure
- Cholesterol
- Fasting Blood Sugar(FBS) Over 120 or not
- Cholesterol
- EKG Results
- Maximum Heart Rate
- Exercise Angina
- ST Depression
- Slope of ST
- Number of vessels fluroscopy
- Thallium

The model that we are going to use to predict the disease is Logistic Regression. The Training and Testing accuracy was recorded 87 and 83 respectively.

On clicking visualisation page:



On clicking Log out:

The screenshot shows a login form with the title "Login". It includes fields for "Email:" and "Password:". Below the password field is a red "Log in" button. At the bottom, there is a link "Not a user? [signup](#)".