

## TESTING

### Project Development Phase

#### Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID53250
Project Name	Visualizing and Predicting Heart Diseases with an Interactive Dash Board
Maximum Marks	10 Marks

#### Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Screenshot / Values
1.	Dashboard design	No of Visualizations / Graphs - 10
2.	Data Responsiveness	Good
3.	Amount Data to Rendered (DB2 Metrics)	-
4.	Utilization of Data Filters	Yes for filtering out visualisations concerning people with existing heart disease
5.	Effective User Story	No of Scene Added - 8
6.	Descriptive Reports	No of Visualizations / Graphs - 7

## Acceptance Testing

### UAT Execution & Report Submission

Date	11 November 2022
Team ID	PNT2022TMID53250
Project Name	Visualizing and Predicting Heart Diseases with an Interactive Dash Board
Maximum Marks	4 Marks

### Purpose of Document

The purpose of this document is to briefly explain the test coverage and open issues of the [ProductName] project at the time of the release to User Acceptance Testing (UAT).

### Defect Analysis

This report shows the number of resolved or closed bugs at each severity level, and how they were resolved

Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
By Design	10	4	2	3	20
Duplicate	1	0	3	0	4
External	2	3	0	1	6
Fixed	11	2	4	20	37
Not Reproduced	0	0	1	0	1
Skipped	0	0	1	1	2
Won't Fix	0	5	2	1	8
Totals	24	14	13	26	77

### 3. Test Case Analysis

This report shows the number of test cases that have passed, failed, and untested

Section	Total Cases Pass	Not Tested	Fail	
Print Engine	7	0	0	7
Security	2	0	0	2
Outsource Shipping	3	0	0	3
Client Application 51	51	0	0	
Exception Reporting	9	0	0	9
Final Report Output	4	0	0	4
Version Control	2	0	0	2

## 5 RESULTS

### 5.1 Performance Metrics

1. Hours worked: 50 hours
2. Stick to Timelines: 100%
3. Stay within budget: 100%
4. Consistency of the product: 85%
5. Efficiency of the product: 85%
6. Quality of the product: 85%

## 6 ADVANTAGES & DISADVANTAGES:

### ADVANTAGES:

- Smooth User Interface
- Accuracy is achieved quickly

## **DISADVANTAGES:**

Random forest can be used for both classification and regression tasks, but it is not more suitable for Regression tasks

## **7 CONCLUSION:**

This overview of the project conveys the idea that numerous methods have been investigated for diagnosing cardiovascular disease. Big data, machine learning, and data mining can be used to great success to analyse the prediction model with the highest degree of accuracy. The primary goal of this project is to diagnose cardiovascular disease or heart disease utilizing a variety of techniques and procedures to obtain a prognosis.

## **8 FUTURE SCOPE**

A future update shall comprise of section for viewing renowned cardiologists and scan centres in their city. The obtained output can be further processed and sent to smart devices to provide necessary assistance. Constant monitoring can provide necessary data to recommend to consult a doctor in case of an emergency.

## **9 APPENDIX**

### **Source Code:**

<https://github.com/IBM-EPBL/IBM-Project-17316-1659633912/tree/main/Final%20Deliverables/Code>

### **GitHub & Project Demo Link:**

**GitHub Link:** <https://github.com/IBM-EPBL/IBM-Project-17316-1659633912>

### **Project Demo link:**