

Project Design Phase-I

Solution Architecture

Date	19 October 2023
Team ID	
Project Name	Visualizing and Predicting Heart Diseases with an Interactive Dash Board
Maximum Marks	4 Marks

Solution Architecture:

To tackle the issue of cardiovascular diseases ,we propose developing a sophisticated dashboard with data analysis , predictive modeling, random forest and interactive visualizations. This solution seeks to empower healthcare professionals with a powerful tool for risk assessment and personalized patient management. Such a system could not only improve the chances of early detection but also enhance the effectiveness of interventions and treatments, thereby addressing the critical issue of late-stage diagnosis in heart diseases.

Our solution on visualizing and predicting hear diseases using creative dashboard will effectively increase the quality of service to heart patients .It includes:

- ❖ Data collection
- ❖ Connecting dataset with the MySql and tableau
- ❖ Data Preprocessing
 - a. Data Cleaning
 - b. Data transformation
 - c. data reduction.
- ❖ Creating effective visualisations
- ❖ Applying machine learning algorithms and getting effective predicting algorithm
- ❖ Analysing the data
- ❖ Predicting for insights

FlowChart

