

## Project Design Phase-I Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID37943
Project Name	Project – visualizing and predicting heart disease with an interactive dash board
Maximum Marks	2 Marks

### Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	CAD happens when coronary arteries struggle to supply the heart with enough blood, oxygen and nutrients. cholesterol deposits, or plaques, are almost always to blame. these buildups narrow your arteries, decreasing blood flow to your heart. this can cause chest pain, shortness of breath or even a heart attack.
2.	Idea / Solution description	The goal of our heart disease prediction project is to determine if a patient should be diagnosed with heart disease or not, which is a binary outcome, so: positive result=1, the patient will be diagnosed with heart disease. negative result=0, the patient will not be diagnosed with heart disease.
3.	Novelty / Uniqueness	Cardiovascular disease is the leading cause of death in many countries. physicians often diagnose cardiovascular disease based on current clinical tests and previous experience of diagnosing patients with similar symptoms.
4.	Social Impact / Customer Satisfaction	Customer often reacts strongly to service failures, so it is critical that an organization's recovery efforts be equally strong and effective. in this article, the authors develop a model of customer satisfaction with service failure/recovery encounters based on an exchange framework that integrates concepts

		from both the consumer satisfaction and social justice literature,using principle of resource exchange,mental accounting and prospect theory.
5.	Business Model (Revenue Model)	Among all fatal disease,heart attacks disease are considered as the most prevalent.medical practitioners conduct different surveys on heart diseases and gather information of heart patients,their symposiums and disease progression.
6.	Scalability of the Solution	A scalable solution for heart disease preadiction using classification mining techniques our prediction solution uses random forest on Apache spark,which gives massive opportunity for health care analysts to deploy this solution on ever changing,scalable big data landscape for insightful decision making