Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID19416
Project Name	Project – Visualizing and Predicting Heart Diseases with an Interactive Dash Board
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	High blood pressure is one of the major causes of heart failure as it damages arteries. Blood pressure combined with diabetes can increase the risk further. Blood pressure increases the heart rate which results in heart failure. The symptoms of heart disease include dizziness, nausea, chest pain and pain at the shoulder of left hand. The change in lifestyle and irregular sleep is also a major reason for heart failure.
2.	Idea / Solution description	The use of data analytics and data visualization can be used to predict the factors causing heart diseases. The analysis can be carried out in large stream to find the risk and monitor the person in risk. The use of data analytics in healthcare improves preventive measures at the initial stage itself.
3.	Novelty / Uniqueness	The person can be identified at initial stage and can be cured with a small expense. Patients who are at risk can be identified and handled with preventive measures. The data is compared to the current functions of the heart and if any changes is found, it is treated immediately.
4.	Social Impact / Customer Satisfaction	Better diagnosis is given as per the data of the person. Patient is saved from the risk of failure of heart hence the customer is satisfied. By data analytics there is low risk of deaths.
5.	Business Model (Revenue Model)	It is a successful strategy to prevent heart diseases and stroke and distributed as business primarily through employer and by other organizations. This assists in areas such as:

		- Promoting adequate cost coverage or reimbursement for prescription drugs required. - Providing health care coverage for employees and their families which includes primary and secondary prevention services addressing heart disease and stroke. - It also provides prevention services as rehabilitation services for heart attack and stroke survivors. - Assuring detection and follow-up services with employees at the worksite to control high blood pressure and cholesterol. - Managing employees health condition to supervise the work given to the employee.
6.	Scalability of the Solution	Using data analytics we can give the maximum percentage of accuracy in prediction of heart diseases as well as the stroke patients. This approach almost prevents the life of a person by predicting the issue at the initial stage by comparing the data of the person. This solution can be used in a large scale such as in industries, organizations etc.