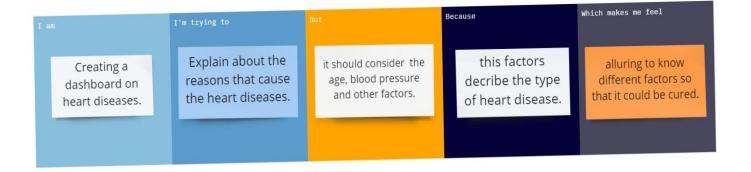# Ideation Phase
Define the Problem Statements

Team ID	PNT2022TMID35144
Project Name	Project – Visualizing and predicting heart diseases using an interactive dashboard.
Maximum Marks	2 Marks

Customer Problem Statement Template:

Creating a problem statement that predict the heart diseases on the basis of factors like blood pressure, age, gender, and so on. This makes to learn more bot the symptoms and other factors that case the heart diseases.

The problem statement is on the topic visualizing and predicting the heart diseases on interactive dashboard.

LITERATURE SURVEY:

Healthcare industries generate enormous amount of data, so called big data that accommodates hidden knowledge or pattern for decision making. The huge volume of data is used to make decision which is more accurate than intuition. Exploratory Data Analysis (EDA) detects mistakes, finds appropriate data, checks assumptions and determines the correlation among the explanatory variables. In the context, EDA is considered as analysing data that excludes inferences and statistical modelling. Analytics is an essential technique for any profession as it forecast the future and hidden pattern. Data analytics is considered as a cost effective technology in the recent past and it plays an essential role in healthcare which includes new research findings, emergency

situations and outbreaks of disease. The use of analytics in healthcare improves care by facilitating preventive care and EDA is a vital step while analysing data.

Table 1 Different types of heart disease [5]

Arrhythmia	The heart beat is improper whether it may irregular, too slow or too fast.
Cardiac arrest	An unexpected loss of heart function, consciousness and breathing occur suddenly.
Congestive heart failure	The heart does not pump blood as well as it should, it is the condition of chronic.
Congenital heart disease	The heart's abnormality which develops before birth.
Coronary artery disease	The heart's major blood vessels can damage or any disease occurs in the blood vessels.
High Blood Pressure	It has a condition that the force of the blood against the artery walls is too high.
Peripheral artery disease	The narrowed blood vessels which reduce flow of blood in the limbs, is the circulatory condition.
Stroke	Interruption of blood supply occur damage to the brain.