Ideation Phase

Define the Problem Statements

Date	02 feb 2026
Team ID	LTVIP2026TMIDS77693
Project Name	Heart Disease Analysis
Maximum Marks	2 Marks

Customer Problem Statement Template:

Problem Statement

Heart disease is one of the leading causes of death globally, with increasing cases due to unhealthy lifestyles, poor dietary habits, physical inactivity, stress, and smoking. Although medical technology has advanced significantly, early detection and preventive care remain the most effective strategies to reduce mortality rates. However, healthcare institutions and policymakers face challenges in analysing large volumes of heart disease-related data to identify patterns, risk factors, and vulnerable population groups.

Healthcare datasets often include multiple variables such as age, gender, cholesterol levels, blood pressure, BMI, smoking habits, physical activity, and medical history. Extracting meaningful insights from such complex and large datasets using traditional methods is difficult, time-consuming, and prone to errors. There is a need for an efficient data visualization and business intelligence solution that can convert raw medical data into interactive, understandable, and actionable insights.

This project aims to address this challenge by utilizing **Tableau** to analyze heart disease data and develop interactive dashboards. The system will help:

- Identify key lifestyle and clinical risk factors contributing to heart disease
- Compare trends across age groups, genders, and regions
- Detect high-risk populations
- Support healthcare professionals in preventive decision-making
- Assist policymakers in designing targeted health programs
- Empower individuals to monitor and understand their health risks

By transforming raw health data into visually engaging dashboards, this project enables data-driven decision-making for hospitals, government health departments, and individuals. The ultimate objective is to promote preventive healthcare, increase awareness, and reduce the growing burden of heart disease through informed analysis and visualization.