

## Project Initialization and Planning Phase

Date	28 January 2026
Team ID	LTVIP2026TMIDS39871
Project Name	Heart Disease Analysis
Maximum Marks	3 Marks

### Problem Statement

Heart disease is one of the leading causes of death globally, with rising cases attributed to lifestyle factors such as smoking, obesity, diabetes, physical inactivity, and poor dietary habits. Despite the availability of large-scale healthcare datasets, extracting meaningful insights from this data is challenging without proper analytical tools. Traditional data analysis methods are time-consuming and may fail to effectively highlight hidden patterns and correlations. Therefore, there is a need for an interactive data visualization system that can analyze heart disease data and present key risk factors in a clear, structured, and insightful manner to support preventive healthcare decision-making.

### Customer Problem Statement Template

I am	I'm trying to	But	Because	Which makes me feel
A healthcare professional	Identify major risk factors contributing to heart disease among patients	Analyzing large healthcare datasets manually is complex and time-consuming	Traditional analysis methods do not clearly highlight hidden patterns, correlations, and high-risk groups	Overwhelmed and unable to make quick, data-driven clinical decisions
A public health policymaker	Understand heart disease trends at a population level to design preventive strategies	The available healthcare data is scattered and not presented in an interactive format	Without proper visualization tools, it is difficult to interpret patterns and allocate healthcare resources effectively	Uncertain about implementing impactful public health policies
An individual concerned about my health	Understand whether my lifestyle habits increase my risk of heart disease	Raw medical and statistical data is difficult to interpret	There is no simple and interactive system to visualize personal risk factors clearly	Confused and unaware of preventive measures I should take

<b>PS</b>	<b>I am</b>	<b>I'm trying to</b>	<b>But</b>	<b>Because</b>	<b>Which makes me feel</b>
<b>PS-1</b>	A healthcare professional	Find heart disease risk factors	Large health data is difficult to analyze	Data is not clearly visualized	Confused and slow in making decisions
<b>PS-2</b>	A public health policymaker	Understand heart disease trends	Data is scattered and not interactive	No proper visualization system	Unsure about planning health programs
<b>PS-3</b>	A health-conscious individual	Know my heart disease risk	Medical data is hard to understand	No simple tool to show risk clearly	Worried and unaware of prevention steps