

Ideation Phase


Brainstorm & idea prioritization

Date	31 January 2025
Team ID	LTVIP2026TMIDS91241
Project Name	HeartDisease Analysis
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization

Many people are unaware of their risk of heart disease until serious symptoms appear, and there is a lack of simple tools that help users understand their heart health using data. Lifestyle factors such as BMI, sleep patterns, alcohol consumption, and smoking habits are often ignored or not properly monitored. Medical reports are usually difficult for common people to interpret without clear visual explanations. Because of this, people fail to take early preventive actions. Using data analytics and visualization for early prediction can help individuals understand risks and prevent life-threatening heart conditions.

Step1 : Team Gathering,project context and problem statement



Heart Disease Analysis

Project Description:
This project analyzes heart disease data using Tableau to identify key risk factors, discover patterns, and build interactive dashboards that support preventive healthcare and data-driven decision-making.

Team ID:
LTVIP2026TMIDS91241

Team Leader: S Ashifa

Team Members:

- S Ashifa
- V Akhil
- R Deevena

Project Context

Heart disease is one of the leading causes of death globally. Lifestyle factors such as poor diet, lack of exercise, smoking, and stress significantly increase risk. Large health datasets contain valuable insights but require visualization tools for meaningful interpretation.

Why this project?

To transform raw heart disease data into interactive dashboards that help:

- Doctors identify high-risk patients
- Governments design health policies
- Individuals monitor their health risks

Problem statement

How can we use Tableau to analyze heart disease data and identify key risk factors, trends, and correlations that support preventive healthcare and informed decision-making?

Key Questions

- Which lifestyle factors contribute most to heart disease?
- Which age groups are at higher risk?
- How do cholesterol and blood pressure impact risk?
- Are there regional or demographic differences?

Step 2:Brainstorm,Idea Listing,Grouping and Group Ideas

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Brainstorm

In this stage, we generated ideas to analyze heart disease data using Tableau. Each team member contributed key factors related to demographic, clinical, and lifestyle risks that may influence heart disease.

Ashifa	Akhil	Deevena
Cholesterol level analysis	Sleep time trends	Gender-based risk comparison
High-risk group identification	Race Heart Disease comparison	Smoking impact analysis
Age correlation	BMI vs heart disease	Physical inactivity impact

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Group ideas

In this stage, we organized our brainstormed ideas into meaningful categories such as demographic factors, clinical indicators, and lifestyle risk factors to better structure our analysis.

Demographic Factors

- Age and heart disease correlation
- Gender-based risk comparison
- Urban vs rural comparison

Clinical Indicators

- Cholesterol level analysis
- BMI vs heart disease
- Blood pressure trends

Lifestyle Risk Factors

- Smoking impact analysis
- Physical inactivity impact
- High-risk group identification

Step 3:Idea Prioritization

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Prioritize

We evaluated our grouped ideas based on importance and feasibility to determine which factors should be focused on in our Tableau dashboard development.

