

**Requirement Analysis**  
**Technology Stack (Architecture & Stack)**

Date	18-02-2026
Team ID	LTVIP2026TMIDS88080
Project Name	Heart Disease Analysis: Identifying Risk Factors Using Tableau
Maximum Marks	4 Marks

**Technical Architecture:**

The technology stack outlines all the tools and platforms used throughout the project to analyze and visualize heart disease data. It covers the complete workflow from data collection and preprocessing to dashboard creation and sharing. Each component in the stack was selected to ensure the system is efficient, user-friendly, secure, and easy to deploy.

**Table 1:**

Component	Description	Technology
User Interface	Interface through which users interact with dashboard and story	Tableau Public (Web Interface)
Data Processing & Visualization	Loading dataset, creating charts, and performing analysis	Tableau Desktop / Tableau Visualization Engine
Interaction & Filtering	Applying filters, parameters, and interactive controls	Tableau Filters & Parameters
Database	Heart disease dataset used for analysis	Provided CSV Dataset
File Storage	Storage of project files and dashboards	Local Storage System
Deployment Environment	Platform where dashboard is published and accessed	Tableau Public Cloud

**Table-2: Application Characteristics:**

Characteristic	Description	Technology
Usability	Simple and easy-to-understand dashboard for users	Tableau Public Interface
Security	Dataset shared without personal identifiers and accessed via secure public link	Tableau Public Sharing
Scalability	Can extend with additional medical parameters or updated datasets	Tableau Architecture
Availability	Dashboard accessible anytime online	Tableau Public Cloud
Performance	Smooth loading and fast interaction of charts	Optimized CSV and Tableau Engine