

Project Design Phase
Proposed Solution Template

Date	11 February 2026
Team ID	LTVIP2026TMIDS39871
Project Name	Heart Disease Analysis
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in the proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Healthcare professionals and policymakers face difficulty in analyzing large heart disease datasets and identifying key risk factors. Manual data analysis is time-consuming and does not clearly highlight patterns, trends, and correlations. There is a need for an interactive system that transforms raw healthcare data into meaningful visual insights for better decision-making.
2.	Idea / Solution Description	The proposed solution is an interactive Heart Disease Analysis system developed using Tableau for data visualization and Flask for web integration. The system converts raw healthcare data into structured dashboards and stories that highlight important risk factors such as age, BMI, smoking, diabetes, and physical activity. The dashboard is published on Tableau Public and embedded into a web application for easy browser-based access.
3.	Novelty / Uniqueness	Unlike traditional static healthcare reports, this system provides interactive visual dashboards with dynamic filters. Users can explore data in real-time, apply filters, and analyze trends easily. The integration of Tableau with Flask enables web-based accessibility, making the solution more flexible and user-friendly than static reports.
4.	Social Impact / Customer Satisfaction	The solution helps healthcare professionals and policymakers make informed decisions based on data insights. It improves understanding of heart disease risk factors and supports preventive healthcare planning. Users benefit from clear visual representation of complex data, reducing confusion and improving productivity.
5.	Business Model (Revenue Model)	The system can be extended for enterprise healthcare analytics services. Revenue can be generated through dashboard customization services, healthcare analytics consulting, subscription-based advanced analytics features, or integration with hospital management systems.
6.	Scalability of the Solution	The dashboard is cloud-accessible through Tableau Public and can be deployed on scalable web infrastructure. The system can support multiple users accessing the dashboard simultaneously. Future enhancements such as data base integration.

