Project Design Phase
Proposed Solution Template

Date	15 February 2026
Team ID	LTVIP2026TMIDS74725
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 identifying key lifestyle and medical factors contributing to heart disease due to complex and large-scale health datasets. The lack of interactive visual tools leads to delayed insights, reactive treatment, and limited preventive decision-making.
2	**Idea / Solution Description**	We propose an interactive Tableau dashboard that analyzes heart disease data using patient demographics, lifestyle habits, and medical indicators. The solution enables users to explore patterns, compare risk groups, and identify correlations through dynamic visualizations and filters.
3	**Novelty / Uniqueness**	The solution integrates multiple health dimensions—age, gender, BMI, diabetes, smoking, alcohol consumption, physical activity, and stroke history—into a single interactive platform. Unlike static medical reports, it offers real-time interactivity, drill-down analysis, and responsive dashboards accessible to nontechnical users.

4	**Social Impact / Customer Satisfaction**	The dashboard supports early detection and preventive care by helping doctors, policymakers, and individuals understand heart disease risks. It improves public health awareness, enables targeted interventions, and empowers individuals to make informed lifestyle choices.
5	**Business Model (Revenue Model)**	This solution can be offered as a healthcare analytics dashboard-as-a-service to hospitals, clinics, insurance providers, and government agencies. Revenue can be generated through subscriptions, consulting services, or customized analytical reports.
6	**Scalability of the Solution**	The dashboard can be scaled to include larger patient datasets, real-time health records, predictive analytics, and cloud-based deployment using Tableau Cloud. Future integration with IoT health devices and APIs is also supported.