

Project Design Phase

Solution Architecture

Date	13 February 2026
Team ID	LTVIP2026TMIDS39871
Project Name	Heart Disease Analysis
Maximum Marks	4 Marks

Solution Architecture:

Solution Architecture:

The solution architecture of the Heart Disease Analysis system consists of a Tableau-based data visualization platform integrated with a Flask web application. The heart disease dataset is first imported into Tableau, where it is cleaned and structured for analysis. Multiple interactive visualizations are created to highlight important risk factors such as age, BMI, smoking, diabetes, and physical activity. These visualizations are combined into an interactive dashboard and story format to provide clear and meaningful insights.

The completed dashboard is published on Tableau Public for online accessibility and embedded into a Flask web application using an iframe or Tableau embed code. The Flask application acts as the interface layer, allowing users to access the dashboard through a web browser. This architecture ensures a simple, scalable, and user-friendly system that transforms raw healthcare data into interactive and actionable insights.

