

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	17-02-2026
Team ID	LTVIP2026TMIDS88080
Project Name	Heart Disease Analysis: Identifying Risk Factors Using Tableau
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Load and Prepare Heart Disease Dataset	Upload CSV file, connect dataset to Tableau, Preview and inspect patient attributes (Age, Gender, Race, Smoking, Alcohol, Diabetes, Stroke, Heart Disease etc.)
FR-2	Create Visualizations	Develop visualizations including Gender vs heart disease bar chart, Race-wise distribution pie chart, Smoking and Alcohol impact stacked bar chart, Diabetic vs Stroke analysis chart, and display overall heart disease case count.
FR-3	Design Dashboard	Integrate all visualizations into a single interactive dashboard with filters (Gender, Smoking, Alcohol, Diabetes), proper alignment, labeling, titles, and legends for clear understanding.
FR-4	Build Tableau Story	Create multiple story points highlighting key insights, major risk factors, and summary observations derived from the visualizations.
FR-5	Publish and share	Publish the dashboard to Tableau Public, generate a shareable link, export images for documentation, and embed visuals into the final project report.

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The dashboard should provide a simple, intuitive, and user-friendly interface suitable for both medical professionals and non-technical users.
NFR-2	Security	All charts and interactive elements must function accurately without errors during filtering and navigation.
NFR-3	Reliability	The dashboard should load efficiently and perform smoothly even with the complete dataset.
NFR-4	Performance	The dataset must exclude personally identifiable information and be shared securely through Tableau Public.
NFR-5	Availability	The dashboard should be accessible at any time through a public Tableau link.
NFR-6	Scalability	The system should support future updates, including additional medical parameters or new datasets.