

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

Date	14 Feb 2026
Team ID	LTVIP2026TMIDS73343
Project Name	Heart Disease Analysis
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	Data Extraction	Perform SQL queries on the heart_new2 table to extract clinical data.
FR-2	Data Visualization	Create an interactive Tableau Story with 10+ unique charts showing risk factors.
FR-3	Web Integration	Host the dashboard within a Flask web app using a Bootstrap template.
FR-4	Risk Analysis	Allow users to filter data by Age, BMI, and Smoking status to see specific risk levels.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Simple UI for doctors to navigate the dashboard easily.
NFR-2	Security	Protect patient data stored in the MySQL database.
NFR-3	Reliability	Ensure stable connections between Flask and the database.
NFR-4	Performance	Dashboard and charts must load in under 3 seconds.
NFR-5	Availability	Accessible 24/7 on the local host server (127.0.0.1:5000).
NFR-6	Scalability	Handle larger heart datasets as patient records grow.