

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

Date	8 January 2026
Team ID	LTVIP2026TMIDS24884
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	User Registration	Registration through Form Registration through Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Login	Login using Email & Password Forgot password option
FR-4	Dashboard Access	View heart disease analysis dashboard Access interactive charts
FR-5	Data Filtering	Filter data by Age, Gender, BMI, Smoking, Diabetes
FR-6	Data Visualization	Display charts (Age vs Heart Disease, Smoking Impact, BMI Trends)
FR-7	Report Generation	Export dashboard insights as PDF
FR-8	Database Management	Store and retrieve data from the MySQL database
FR-9	Web Integration	Embed a Tableau dashboard into a Flask web application
FR-10	Admin Control	Upload / Update dataset Monitor system performance

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The system should have a simple, user-friendly interface for doctors, policymakers, and patients.
NFR-2	Security	User data should be protected using authentication, secure login, and encrypted database storage.
NFR-3	Reliability	The dashboard should display accurate data without errors or crashes.
NFR-4	Performance	Dashboard should load within acceptable time even with large datasets.

NFR-5	Availability	System should be accessible 24/7 via web browser.
NFR-6	Scalability	System should handle increasing data volume and multiple users efficiently.