

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	29 October 2022
Team ID	PNT2022TMID47218
Project Name	Project – Visualizing and Predicting Heart Diseases with an Interactive Dashboard
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	Web page	Preface of the Heart disease and the dashboard. Registration for new user and Sign in for registered user.
FR-2	User Registration	Registration through Gmail by entering the required details for registering.
FR-3	User Confirmation	Confirmation via Email.
FR-4	User Login	The user will enter his/her email id and password used while in the time of registering.
FR-5	Upload other details	Upload the other clinical and non-clinical details that are asked for.
FR-6	Visualizing Data	Visualize the presence of heart diseases through dashboard created using IBM Cognos Analytics.
FR-7	Generation Report	View and generate the report.
FR-8	Result	POSITIVE-The result along with alert notification. NEGATIVE-The result along with precautionary measures.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Simple user interface with easy understanding. User friendly to access the dashboard.
NFR-2	Security	Maintain a secondary/backup dataset. User reports are kept safely and remove false dataset. Login details are shared via email on every login for confidentiality.
NFR-3	Reliability	Must work without error or minimum error and able to work with various dataset. Highly reliable because predictions are made using the authorized clinical reports.
NFR-4	Performance	Depending on the error metrics we have to choose an algorithm with high response time. Low latency and high throughput.
NFR-5	Availability	It is based on the IBM Cognos Analytics so it should be available to all time. Exhibits good availability to all types of browsers.
NFR-6	Scalability	Should handle a high number of request at the same time and a large datasets. It is highly scalable because it is an Interactive dashboard and the website is also maintained uninterrupted.