Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	5 November 2022
Team ID	PNT2022TMID10901
Project Name	Visualizing and Predicting Heart Diseases with an Interactive Dash Board
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	The users can register/Sign up through Gmail or through a form which gets user details(email, username, password etc ..)
FR-2	User Confirmation	The registration is confirmed via mail. From the user end it is confirmed with OTP recieved through mail.
FR-3	Loading User Data	The user will enter/give the details required to predict heart disease via the platform
FR-4	Visualizing the Data	The user will be able to visualize the heart disease trend through Dashboard created using IBM Cognos Analytics.
FR-5	Generating Report	The user can access their report generated based on the details given
FR-6	Recommandation	Set of recommandation to recover can be given, which should be taken only with the consent of a cardiologist.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The application will be completely user friendly and easy to use and move around. The user will be able to understand all the feature and how to enter the details, visalise and also to get the generated report.

NFR-2	Security	The user details should be safe without being leaked to any third party, so that the user will feel comfortable. The technique known as database replication should be used so that all the important data should be kept safe. In case of any crash of the system, the application should be able to record the data.
NFR-3	Reliability	The application has to work without any failure with enough accuracy. And it should give consistent results at every scenario.
NFR-4	Performance	The performance of the system depends on the response time and accuracy of the system to predict the results. The performance of the system depends
NFR-5	Availability	The application has to be available 24/7 for the user, so the servers has to be used in such a way that it is available anytime to the user.
NFR-6	Scalability	The application should be able to withstand anynumber of users accessing and using the site.The application has to be flexible to adapt the higher version of technology