

**PROJECT DESIGN PHASE - II**

**SOLUTION REQUIREMENTS**  
**(FUNCTIONAL AND NON-FUNCTIONAL)**

<b>Date</b>	15-oct-2022
<b>Project title</b>	Visualizing and Predicting Heart Diseases with an Interactive Dashboard
<b>Team ID</b>	PNT2022TMID21580

**Functional requirements:**

<b>FR NO</b>	<b>Functional Requirement</b>	<b>Subtask / Sub requirement</b>
<b>FR 1</b>	User Registration	Registration using google Registration using Facebook Registration using other
<b>FR 2</b>	Account creation	Email and password for account creation
<b>FR 3</b>	Dashboard	Dashboard where user can enter his health data so that the application can predict whether the user is diagnosed with heart disease or not.
<b>FR 4</b>	Personal details	Personal details and medical related details for basic health map.
<b>FR 5</b>	Frequent updates	Frequent visualizations and updates regarding the health conditions of the user.

**Non-Functional Requirements:**

<b>NFR NO</b>	<b>Non-functional requirement</b>	<b>Subtask / Sub requirement</b>
<b>NFR 1</b>	<b>Usability</b>	Many navigation and lots of options for the user to choose from adds frustration to the user experience. We have planned our application in such a way that the user gets what he wants with a minimum number of clicks and a clear cut with minimal options and a lot of information. We use the universal language English to make the application more user friendly.

<b>NFR 2</b>	<b>Security</b>	Security is an important NFR in our application as we are dealing with a lot of sensitive and personal information such as medical records and other healthcare measures. Each and every user has their own access credentials and can strictly view only their own dashboard and no other's data. Frequent security updates are made to the application. Two factor authentication can be enabled if the user wishes for an extended layer of security.
<b>NFR 3</b>	<b>Reliability</b>	The application is open to use whenever required. The application is regularly modified and updated with respect to the requirements of the user. Application is made reliable by giving bug free simple operations with a much better response time. The app provides stability whenever required.
<b>NFR 4</b>	<b>Performance</b>	The performance of the application will be noticeably good. Every page needs to render quickly as the user might be in any form of emergency. As most of the users are potential patients performance should be fast and should not cause any unwanted delay
<b>NFR 5</b>	<b>Availability</b>	The application is available 24/7. The application should be hosted and frequently maintained. Updates should be regular, so that users wouldn't feel any latency.
<b>NFR 6</b>	<b>Scalability</b>	The application is open for scaling. It should be able to handle an exponential increase in the number of users. It should also be available to scale into the next higher versions of the application.