

## Project Design Phase-II

### Solution Requirements (Functional & Non-functional)

Date	14 October 2022
Team ID	PNT2022TMID27115
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	Registration through Form Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Intelligent Heart Disease Prediction System (IHDPS)	IOS Application For CardioVascular Disease Prediction
FR-4	Effective heart disease prediction system(EHDPS)	An automatic system to identify heart disease risk factors in clinical texts over time
FR-5	Report Generation	Information of the Patient, Availability of the Bed
FR-6	Procedure for organ donation link	<a href="http://www.orbo.org">http://www.orbo.org</a>

#### Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	<ul style="list-style-type: none"> <li>●learnability      ● efficiency</li> <li>●memorability    ●error</li> <li>●satisfaction</li> </ul>
NFR-2	<b>Security</b>	<ul style="list-style-type: none"> <li>● <b>Patient Identification:</b> The system needs the patient to recognize herself or himself using the phone.</li> <li>● <b>Logon ID:</b> Any users who make use of the system need to hold a Logon ID and password.</li> <li>● <b>Modifications:</b> Any modifications like insert, delete, update, etc. for the database can be synchronized quickly and executed only by the ward administrator.</li> <li>● <b>Front Desk Staff Rights:</b> The staff at the front desk can view any data in the Hospital Management system, and add new patients record to the HMS but they don't have any rights to alter any data in it.</li> <li>● <b>Administrator rights:</b> The administrator can view as well as alter any information in the Hospital Management System.</li> </ul>
NFR-3	<b>Reliability</b>	Specifies the probability of the software performing without failure for a specific number of users or amount of time

NFR-4	<b>Performance</b>	<ul style="list-style-type: none"> <li>● <b>Response Time:</b> The system provides acknowledgment in just one second once the 'patient's information is checked.</li> <li>● <b>Capacity:</b> The system needs to support at least 1000 people at once.</li> <li>● <b>User-Interface:</b> The user interface acknowledges within five seconds.</li> <li>● <b>Conformity:</b> The system needs to ensure that the guidelines of the Microsoft accessibilities are followed.</li> </ul>
NFR-5	<b>Availability</b>	The system is available all the time.
NFR-6	<b>Scalability</b>	<p><b>Surveys conducted on people for predicting from heart disease</b>-Early heart disease often doesn't have symptoms or the symptoms maybe barely noticeable that why regular checkups with your doctors are important the World Health Survey(WHS)were launched by the World Health Organization(WHO)to strengthen natural capacity to monitor critical health outcomes and health system.</p>