

## Project Design Phase-II

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

#### VSB ENGINEERING COLLEGE

IBM NALAIYA THIRAN	
Project Name	Visualizing and predicting heart disease with an interacting dashboard
Domain	Data Analytics
Team members	Afiya Fargath A Abirami T Jothika M G Jenifer G
Mentor Name	S Janani

#### Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Person Registration	Registration through Form Registration through Gmail Registration through LinkedIn
FR-2	Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Authentication	As this predicting method has variety of secure purpose the authentication is major requirements like passkey.
FR-4	Accurate Data	We need a require data's of like high blood pressure, high cholesterol, family history, being post menopausal(women),obesity , stress and physical inactive
FR-5	Transition Requirements	The transition takes place in short period of time as the data changes the accurate details of individuals is needed.

### Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Visualizing and predicting techniques can be wide range of uses and it can be used with a portable device. Self-analysation can also be done. The conveying method for self-analysis is smart watch. Using smart watch, the heartbeat and more levels can be identified
NFR-2	<b>Security</b>	This process is very secure because by predicting the heart rate regularly by using advanced technology and especially cloud technology. By predicting the heart rate if the heart rate detected low then it can be easily got treatment before any dangerous causes.
NFR-3	<b>Reliability</b>	The study of investigating about various heart disease causing parameters such as HRV measurement reliability in patience with chronic obstructive pulmonary disease. Collecting all data and giving the appropriate solutions can be done. This study employed a limited number of HRV parameters and statistical analysation to be use of many clinical decision.
NFR-4	<b>Performance</b>	Performance is accurate and their will be abrupt changes as the data prediction have changes . As data analytics is done in any time and in any way we would make use of it for the better performance . The powerful data driven to recurrent the mural network algorithm for the analysis of accelerometer data to make future prediction.
NFR-5	<b>Availability</b>	This predicting method is available at all levels and the collection of data is simple . Availability can be very essential and easy manner
NFR-6	<b>Scalability</b>	Our predicting analysis is most scalable as it could easily work on with wide range of availability, densities and every one could use this data collection and visualizing the effects of that and can make treatment then lead a healthy life.