Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	03 October 2022
Team ID	PNT2022TMID31131
Project Name	Project – Visualizing and Predicting Heart Disease Using Interactive Dashboard
Maximum Marks	4 Marks

Technical Architecture:

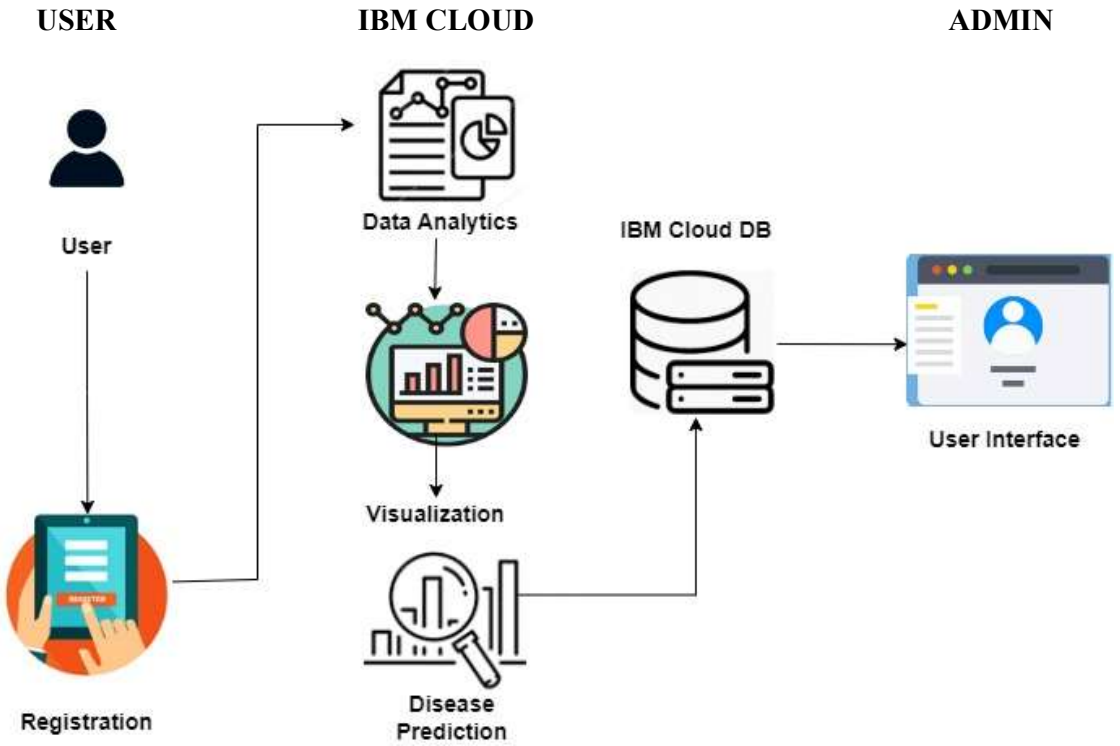

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript etc.
2.	Data Analytics	Explore and analyse data	Java / Python
3.	Data Visualization	Visualize data using various charts, graphs, etc.	Python
4.	Prediction of Heart Disease	Prediction of heart disease accuracy	Python
5.	Data Storage	Database Service on Cloud	MySQL, NoSQL, etc.
6.	Machine Learning Model	Naïve Bayes Classifier to predict the accuracy of heart disease	IBM DB2.
7.	User Interface	Dashboard showing the visualizations of various parameters including the accuracy of heart disease.	IBM Cognos

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Security Implementations	The passwords need to be encrypted in order to ensure user privacy and security.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
2.	Availability	The system will be available for 24*7 in a day to allow easier access at any time.	
3.	Performance	The system will be fast and efficient in predicting the results.	