

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

Date	22 October 2022
Team ID	PNT2022TMID47203
Project Name	Visualizing and Predicting Heart Disease with Interactive Dashboard
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

Visualizing Heart Disease Prediction with Interactive Dashboard

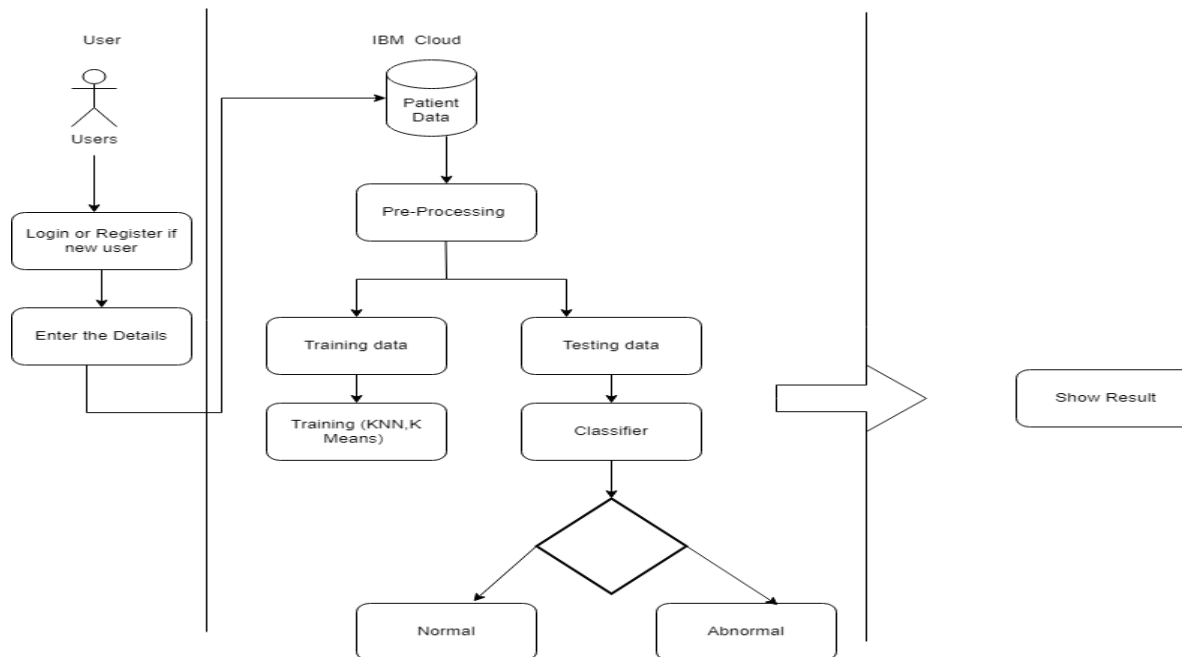


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript
2.	Application Logic-1	Logic for a process in the application	Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson STT service
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-1	Purpose of External API used in the application	IBM Watson API
9.	Machine Learning Model	Purpose of Machine Learning Model	Regression Model, Clustering ,Classification Model, Object Recognition Model, etc.
10.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Power BI analyse the dataset and gives the report as the user can understand easily. The result shows as Dashboard.	IBM Cognos, Microsoft Power BI
2.	Security Implementations	Authenticated users	IBM Cloud
3.	Scalable Architecture	Scalable and not affect the fundamentals .It is responsive to the users. It can handle any number of users.	IBM Cognos Analytics.
4.	Availability	The Data should be available to user	Cloud platform
5.	Performance	The Performance is high and it is visualize the large dataset fast and accurate.	IBM Cognos Analytics