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

Date	05 October 2022
Team ID	PNT2022TMID34361
Project Name	Visualizing and Predicting Heart Diseases with an 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

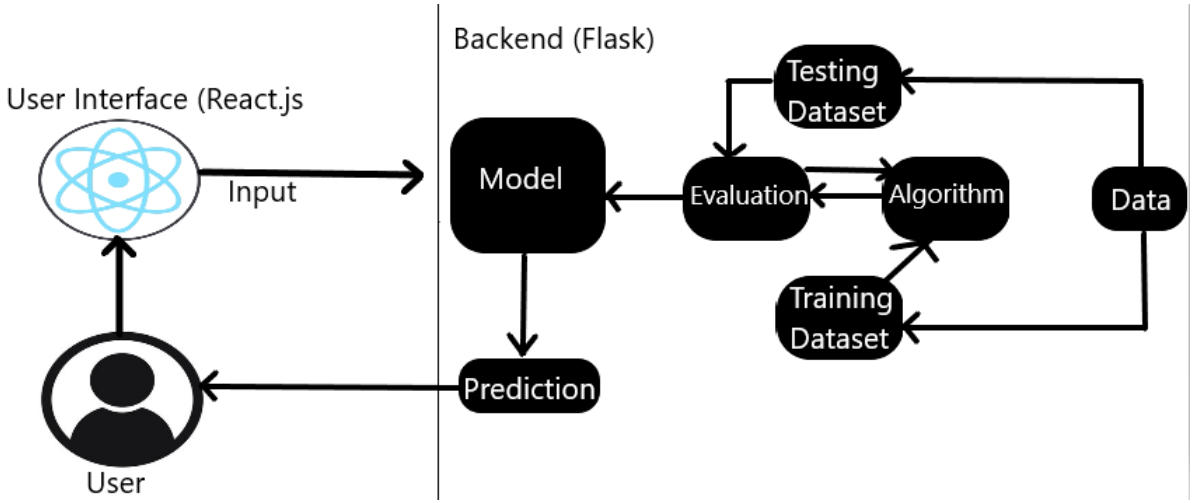

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application	React.js/JavaScript/HTML/CSS
2.	Application Logic-1	Logic for a process in the application	Flask
3.	Application Logic-2	Logic for a process in the application	IBM Cognos
4.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
5.	Cloud Database	Database Service on Cloud	MongoDB
6.	File Storage	File storage requirements	Local Filesystem
7.	Machine Learning Model	Purpose of Machine Learning Model	KNN ML Algorithm/Random Forest
8.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	React.js
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	SHA-256
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	3-tier
4.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN’s) etc.	Function/Stateless components used. CSS animations. Memoization of React components