SOLUTION AND ARCHITECTURE

Date	18 October 2022
Team ID	PNT2022TMID53213
Project Name	Visualizing and Predicting Heart Diseases with an Interactive Dash Board

Technical Architecture:

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

Example: Order processing during pandemics for offline mode

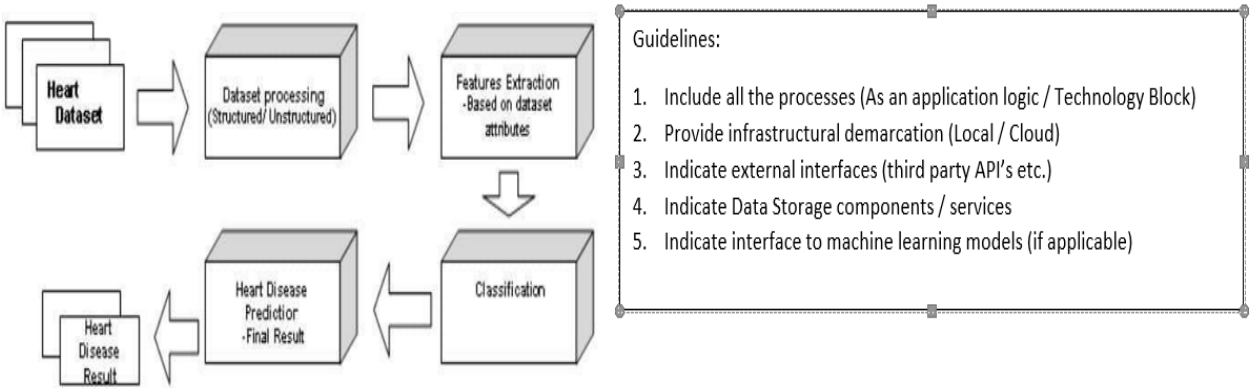

Table-1: Components & Technologies:

S. No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g Web UI	HTML, Flask
2.	File Storage	File storage requirements	IBM Block storage or other storage service or local filesystem
3.	External API-1	Purpose of External API used in the application	IBM Weather API, etc
4.	External API-2	Purpose of External API used in the application	Flask API, etc
5.	Machine Learning Model	Purpose of machine learning model	Object Recognition Model, etc

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Technology of Open-source framework
2.	Security Implementations	List all the security / access controls implemented, IAMuse of firewalls etc.	e.g., SHA-256, Encryptions, Controls, OWASP etc.
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	*Technology used -Iaas, Paas, Saas (IBM CLOUD)*
4.	Availability	Justify the availability of application (e.g., use ofload balancers, distributed servers etc.)	Technology used-The availability of gettingsoftware is accessing IBM Cognos analytics and IBM cloud.
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Technology used -The fast performance should be fast relaying.