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

Date	23 October 2022	
Team ID	PNT2022TMID39416	
000000Project Name	00Project Name Project - Visualizing And Predicting Heart	
	Diseases With An Interactive Dash Board	
Maximum Marks	4 Marks	

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table 1 & table 2

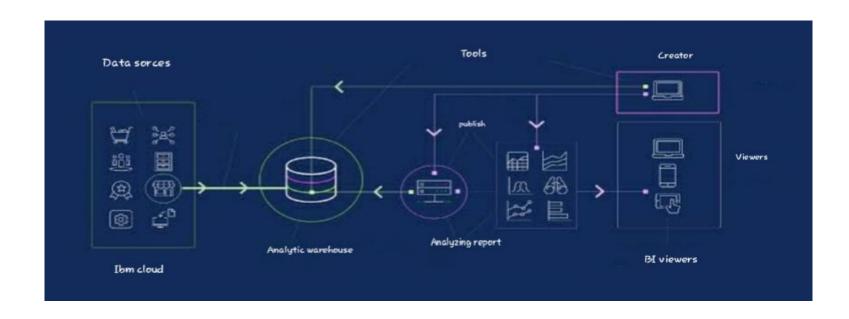


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript / Angular Js / React Js etc.
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, IBM Cognos Analytics
4.	Application Logic-3	Logic for a process in the application	IBM Cognos Analytics
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL, OLAP,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, Classification Model Clustering 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 Business Intelligence(BI) Power BI is truly an interactive tool that gets connected with online platforms to fetch the data for you.Power BI with help of connectors and preinstalled dashboards can analyze the data and present visually creative reports by connecting with Google Analytics and other important software.	IBM Cognos Analytics, Microsoft Power BI
2.	Security Implementations	Cloud based servers offers strong, multilayer security to all data exchanged, also remains protected from Cyber attacks.	IBM Cloud
3.	Scalable Architecture	It supports feature increase in throughput and it is able to handle the data of any patient at any cost without affecting the stability.	Cognos BI
4.	Availability	It is mandatory to ensure that data of the patient is available to all the end users and reliable to acess data.	Cloud platforms, Microsoft Power BI, AWS
5.	Performance	The process of quickly examining extremly large data sets to find insights. This is done by using the parallel processing of high performance computing to run powerful analytic software.	IBM Cognos Analytics