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

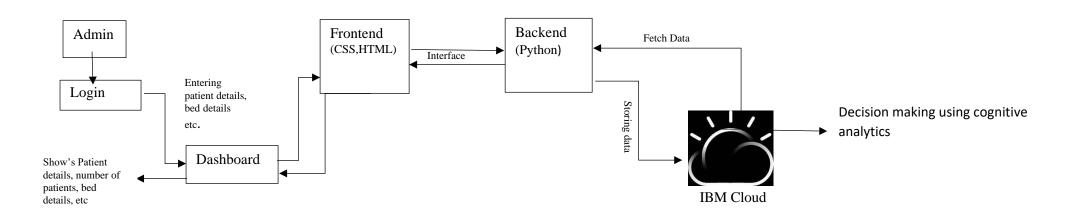| Date	31October 2022
Team ID	PNT2022TMID53545
Project Name	**Project - Analytics for Hospitals Health-Care Data**
Maximum Marks	4 Marks

Technical Architecture:

IBM Cloud

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, etc.
2.	Dashboard Logic-1	Logic for a process in the application	Data Analysis with Python
3.	Dashboard Logic-2	Logic for a process in the application	IBM Cognos Analytics
4.	Dashboard 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 Cloud
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	IBM Cognos Analytics
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	Encrypted Cloud storage, Firewall, etc.
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	IBM Cloud, IBM Watson Assistant
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	IBM Cognos Analytics, Data Analytics with Python
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Cognitive Analytics- It analyzes the data & making decisions.