

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

Date	02 November 2022
Project Name	Analytics for Hospitals' Health-Care Data
Maximum Marks	4 Marks

Technical Architecture:

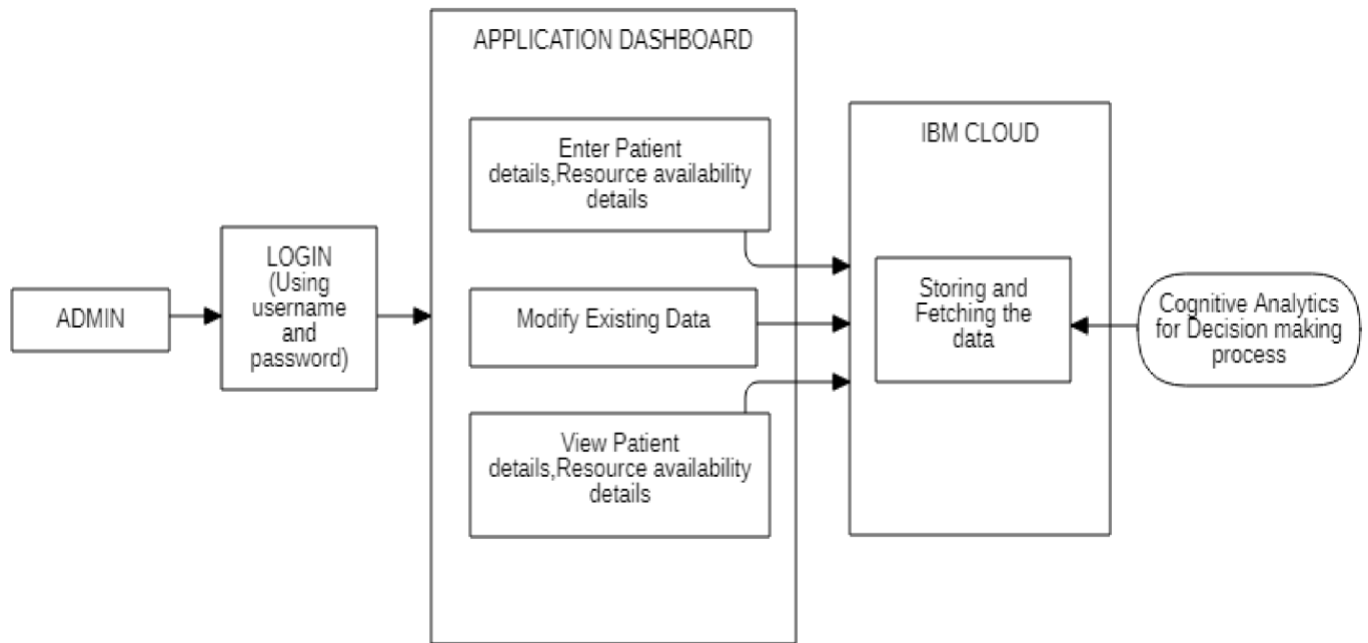


Table-1: Components and Technologies:

S.No	Component	Description	Technology
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1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	Web application using HTML,CSS and Javascript
2.	Application Logic1	Logic for a process in the application	Python
3.	Application Logic2	Logic for a process in the application	IBM Cognos Analytics
4.	Application Logic3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL
6.	Cloud Database	Database Service on Cloud	IBM Cloud
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem

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.	Encryption and Firewall protection
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	IBM Cloud - Can support higher workloads
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	IBM Cognos Analytics
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Use of Cognitive analytics

