Project Design Phase-II

Technology Architecture

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Team ID	PNT2022TMID18388
Project Name	Analytics for Hospitals' Health-Care Data
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Technical Architecture:

USER	IBM CLOUD	ADMIN
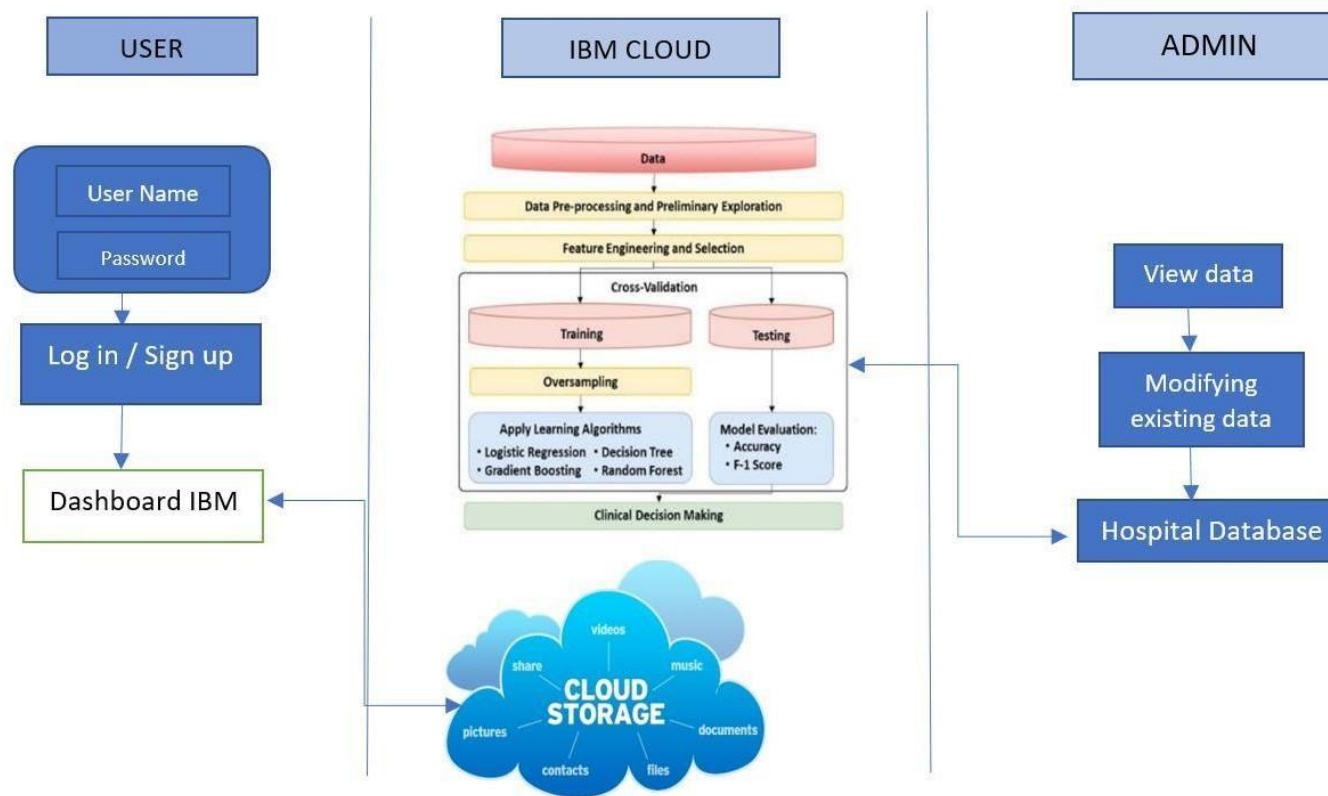
Table-1 : Components & Technologies:

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	Logging in as a patient / user in the application	Python
3.	Application Logic-2	Logging in as an admin in the application	IBM Watson Assistant
5.	Database	All the data about patients such as disease, addressand etc..	MySQL, NoSQL, etc.
6.	Cloud Database	IBM Watson cloud is used for storage, Cloud	IBM DB2, IBM Cloudant etc.
7.	External API-1	Purpose of External API used in the application	Aadhar API, etc..
8.	Machine Learning Model	Purpose of Machine Learning Model	Regression Model, etc.
9.	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	List the open-source frameworks used	Python
2.	Security Implementations	List all the security / access controlsimplemented, use of firewalls etc.	Encryption.

3.	Scalable Architecture	Justify the scalability of architecture (3 – tier,Micro-services)	Can supports higher workloads
4.	Availability	Justify the availability of application (e.g. useof load balancers, distributed servers etc.)	Highly available
5.	Performance	Design consideration for the performance ofthe application (number of requests per sec,use of Cache, use of CDN's) etc.	It performs good uses various tools andideas in a scientific manner to meet thedesired outcomes