

Project Design Phase-II Technology Architecture

Date	22 September 2022
Team ID	PNT2022TMID00449
Project Name	Project - Analysis of Hospital Healthcare Data
Maximum Marks	4 Marks

Technical Architecture:

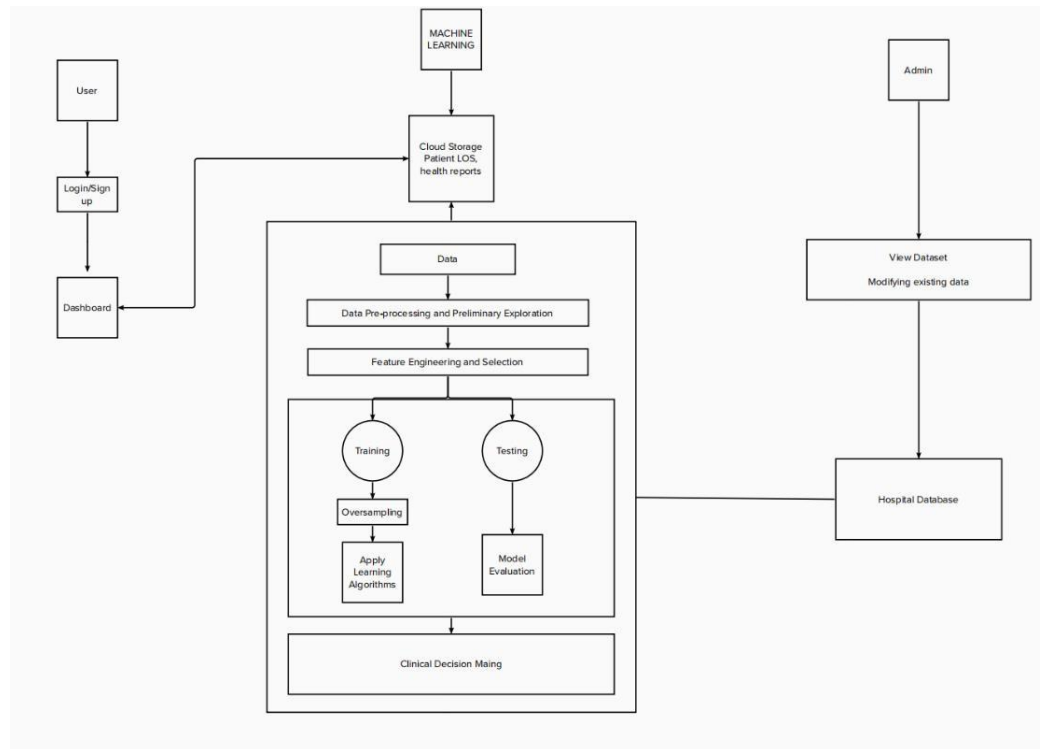


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application	HTML, CSS, JavaScript
2.	Database	Data Type, Configurations	MySQL
3.	Cloud Database	Database Service on Cloud	IBM Cloudant
4.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service
5.	Prediction	ML algorithms are used for predicting the length of stay	ML algorithms - Random forests, Decision trees

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 controls implemented, use of firewalls etc.	Firewall, Antivirus
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Supports higher workloads
4.	Availability	Justify the availability of application	AWS used
5.	Performance	Design consideration for the performance of the application	Dashboard, report, stories