

PROJECT DESIGN PHASE – II

TECHNOLOGY ARCHITECTURE

Date	17 October 2022
Team ID	PNT2022TMID44298
Project Name	Analytics for Hospital Healthcare Data
Maximum Marks	4 Marks

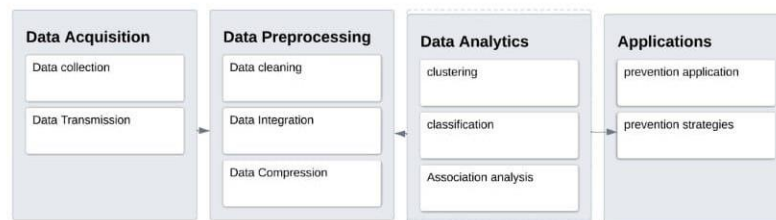
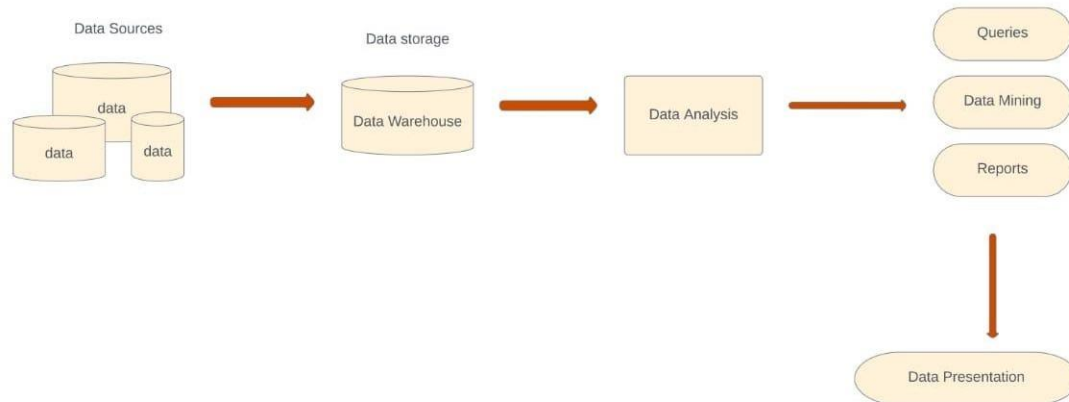


Table – 1 : Components and Technologies

S.NO	Component	Description	Technology
1	User Interface	The user interacts with application using web UI	HTML , CSS, Javascript
2	Database	Datatype and Configurations	MySQL
3	File Storage	File storage requirements	IBM blocks storage or other storage service
4	Cloud Database	Database service on Cloud	IBM Cloudant
5	Prediction	ML algorithms are used for predicting the length of stay	ML algorithms – Random Forest, Decision tree

Table – 2 : Applications Characteristics

S.NO	Component	Description	Technology
1	Open source framework	Open source frameworks used	Python
2	Security Implementations	The security controls implemented use of firewalls	Firewall, Antivirus
3	Scalable Architecture	Scalability consists of 3 tiers	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