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

Date	15 October 2022
Team ID	PNT2022TMID44635
Project Name	Project –Health Care Data analytics
Maximum Marks	4 Marks

Technical Architecture:
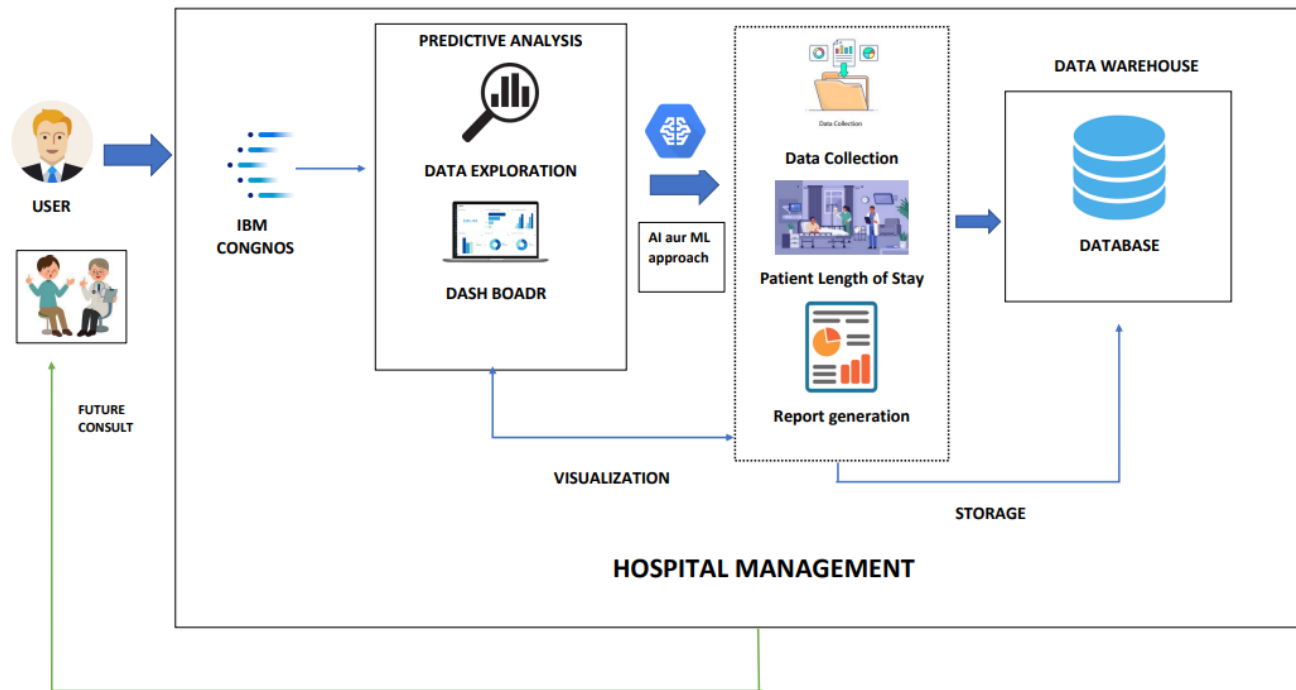
Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	All the data in Ms Excel sheet	IBM Cognative analysis
2.	Application Logic-1	Then Upload the data in IBM Watson	Ms Excel Sheet or Kaggle dataset
3.	Application Logic-2	Prepare the data	IBM Watson STT service, Kaggle data set
4.	Application Logic-3	Explore the Data	IBM Watson Assistant
5.	Database	Present data	Using numpy, pandas, seaborn lib
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	File Storage	Dashboard	IIBM cognos
8.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration:Tableu Cloud Server Configuration : IBM CLOUD	Eda Python, using jupyter notebook anaconda software or google colab.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	**Software with a source code that anyone can inspect, modify or enhance**.	**Visualization, charts, discriptive**
2.	Security Implementations	Including administrative controls, physical security, logical controls, organizational	e.g. firewalls. authentication and authorization.

		standards	encryption. data masking
3.	Scalable Architecture	**The ability of a hardware/software parallel system to exploit increasing computing resources effectively in the analysis of (very) large datasets.**	**a package delivery system**
4.	Availability	**An organization ensures that all of its business-related data is available to the organization, partners, or end-users at any time of the day, whenever and wherever required.**	NoSQL Databases. Knowledge Discovery Tools. Stream Analytics. , In-memory Data Fabric. Distributed Storage.
5.	Performance	**the process of quickly examining extremely large data sets to find insights**	hadoop