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

Date	15 October 2022
Team ID	PNT2022TMID39710
Project Name	Project - Global Sales Data Analytics
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

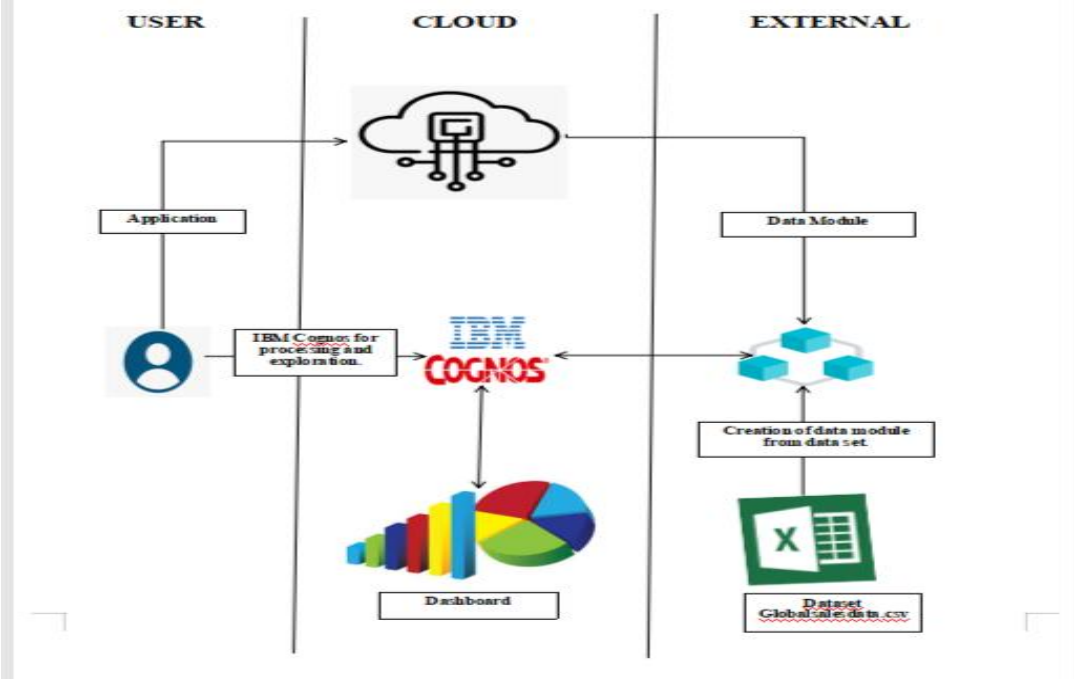

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript.
2.	Application Logic-1	Logic for a process in the application	IBM Cloud.
3.	Application Logic-2	Logic for a process in the application	IBM Cognos Analytical tool.
4.	Application Logic-3	Logic for a process in the application	Python, Jupyter Notebook
5.	Database	Data Type, Configurations etc.	MySQL.
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant.
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local File system
8.	External API-1	Purpose of External API used in the application	IBM Cognos Analytics Tool.
9.	External API-2	Purpose of External API used in the application	Anaconda Python, Jupyter Notebook.
10.	Machine Learning Model	Purpose of Machine Learning Model	Prospective Analysis Model etc,.
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	IBm Cognos Analytics Tool	Google Collaboratory , Jupyter Notebook.
2.	Security Implementations	To Product the Datasets from the Unauthorized Access	256-AES Algorithm
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	IBM Cloud
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	IBM Cloud
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	IBM Cloud