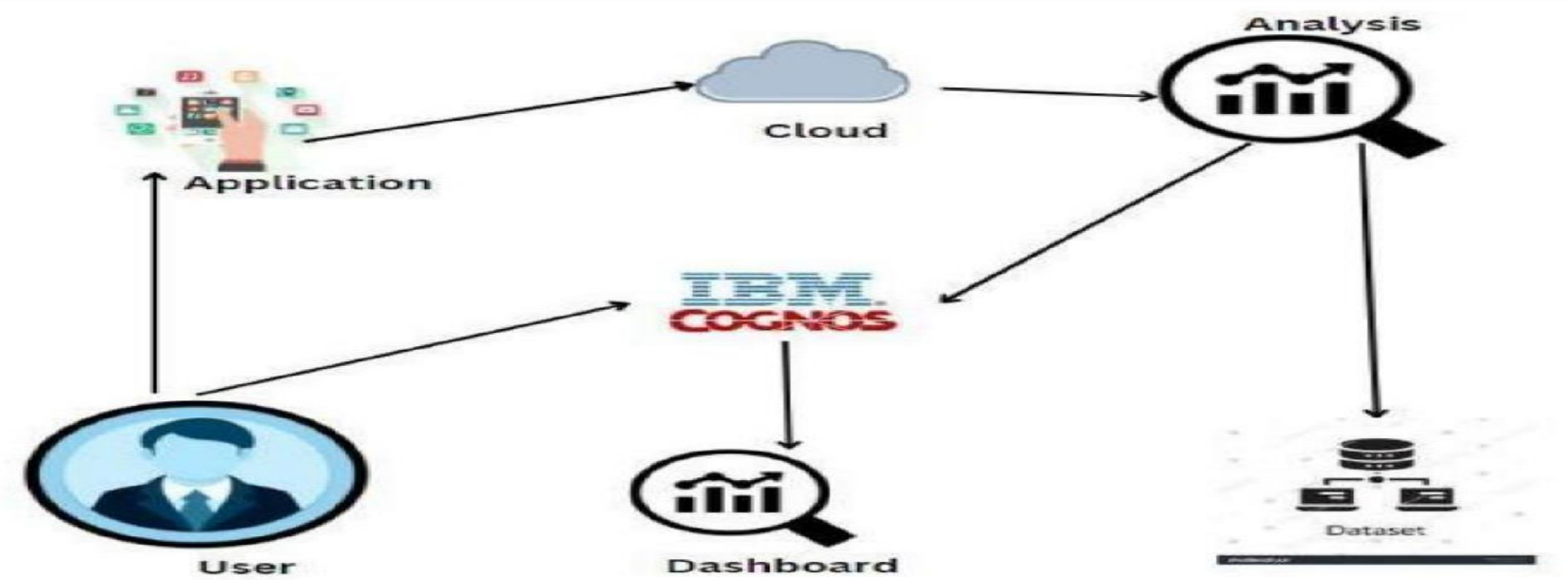
Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	07 November 2022
Team ID	PNT2022TMID51031
Project Name	Project – Global Sales Data Analytics
Maximum Marks	4 Marks

Technical Architecture:



Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	IBM Cognos, Python/HTML, CSS , Javascript
2.	Working with the dataset	Cleaning, extracting process of dataset is done.	IBM Cognos Analytics
3.	Data Exploration	Information in the dataset is identified	IBM Cognos Analytics
4.	Data Visualization	Data is represented in form of chart, table and graph in an interactive way.	IBM Cognos Analytics
5.	Cloud Database	Uploaded data are stored in the cloud database (Database Service on Cloud)	IBM DB2, IBM Cloud etc.
6.	File Storage	File storage requirements	IBM Cloud
7.	External API	Purpose of External API used to authenticate user.	Google Firebase
8.	Viewing Data	User logins to application to view visualization for uploaded data	IBM Cognos Analytics
9.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Localhost Cloud Server Configuration	Local, Cloud Foundry, Kubernetes, etc.

Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Python, IBM Cognos, IBM Cloud
2.	Security Implementations	By using safe encryption technique the data has been secured	SHA-256, SHA 1, IBM Cloud
3.	Scalable Architecture	Architecture is used in 3-Tire application	Application layer, Database layer, Presentation layer (HTML, CSS, JavaScript, Python, IBM Cognos, IBM Cloud)
4.	Availability	It software and the data can be accessed by multiple users without any congestion at the same time.	IBM Cognos Analysis
5.	Performance	A huge data can be performed without crasing any data while processing	IBM Cognos analysis, Presenting Visualization