

Technology Stack (Architecture & Stack)

Date	16 October 2022
Team ID	PNT2022TMID06631
Project Name	Global Sales Data Analytics
Maximum Marks	4 Marks

Technical Architecture:

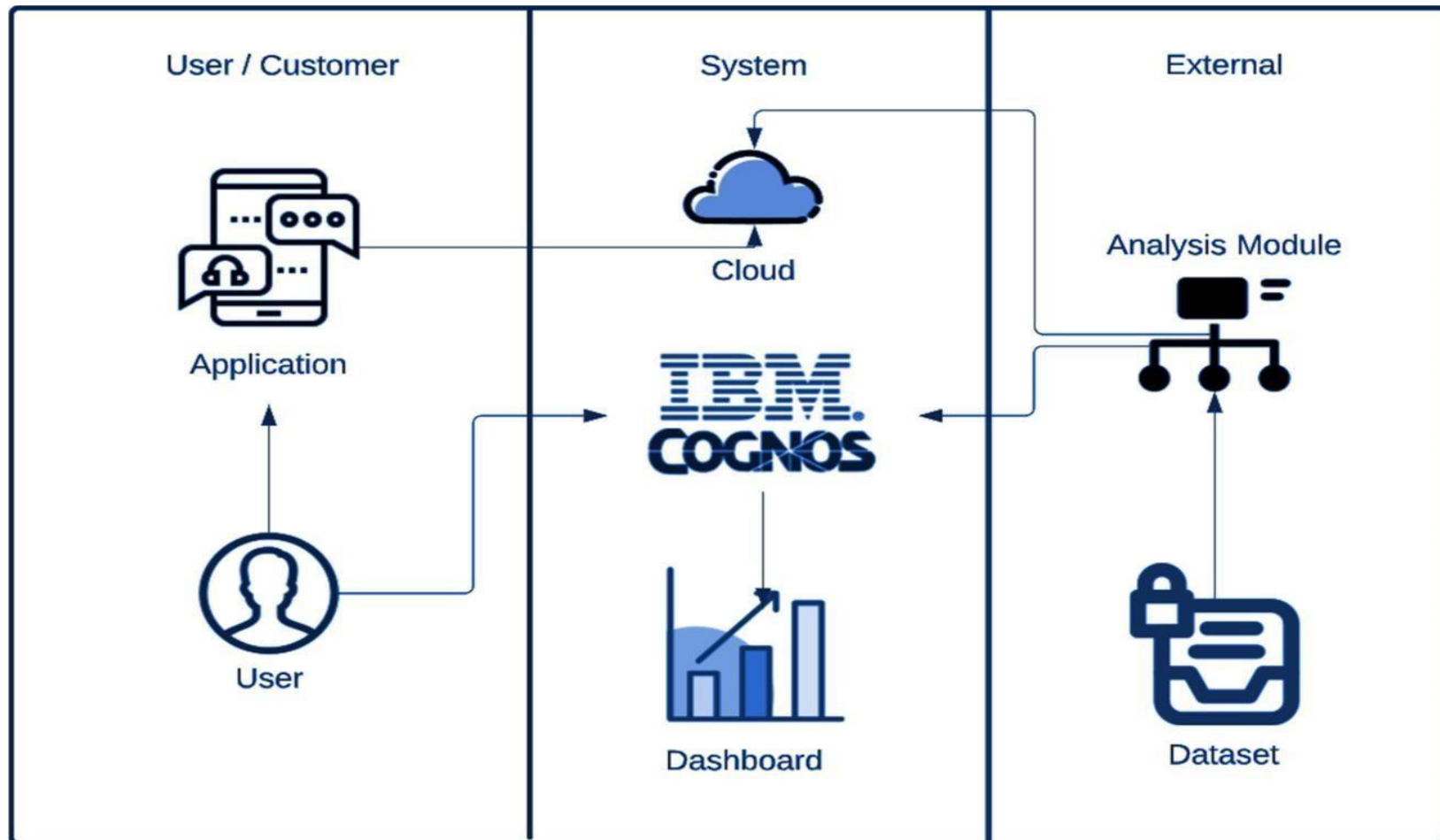


Table-1: Components & Technologies:

S. No	Component	Description	Technology
1.	User Interface	Simple UI with Dashboard and Graphs, pie chart	HTML, CSS, JavaScript / Angular Js
2.	Storage Infrastructure (Cloud)	Customer sales data is uploaded in cloud through interface	IBM Cloud
3.	Application Logic	Data Preparation to remove duplicate, outliers	Google collab in Python
4.	Data Exploration	Uploaded data is explored to identify trends	IBM Cognos
5.	Database	Data Type and Configurations	Rdbms
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloud etc.,
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API	Purpose of External API used to authenticate user	Google Firebase
9.	Viewing Data	User logs in to application to view visualizations for uploaded data	IBM Cognos Dashboard
10.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration = localhost: 8501 Cloud Server Configuration	Localhost, IBM cloud

Table-2: Application Characteristics:

S. No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	IBM Cognos, IBM Cloud, IBM Watson
2.	Security Implementations	To authenticate mail to secure storage	Google API, IBM cloud
3.	Scalable Architecture	Microservices tier-2	IBM Cognos Analytics with Watson
4.	Availability	Application can be available through 24 hrs a day	IBM cloud
5.	Performance	Efficient performance for input and output responses	IBM Tech stacks