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

Date	**24 OCTOBER 2022**
Team ID	**PNT2022TMID02707**
Project Name	**Global Sales Data Analytics**
Maximum Marks	**4 Marks**

Technical Architecture:
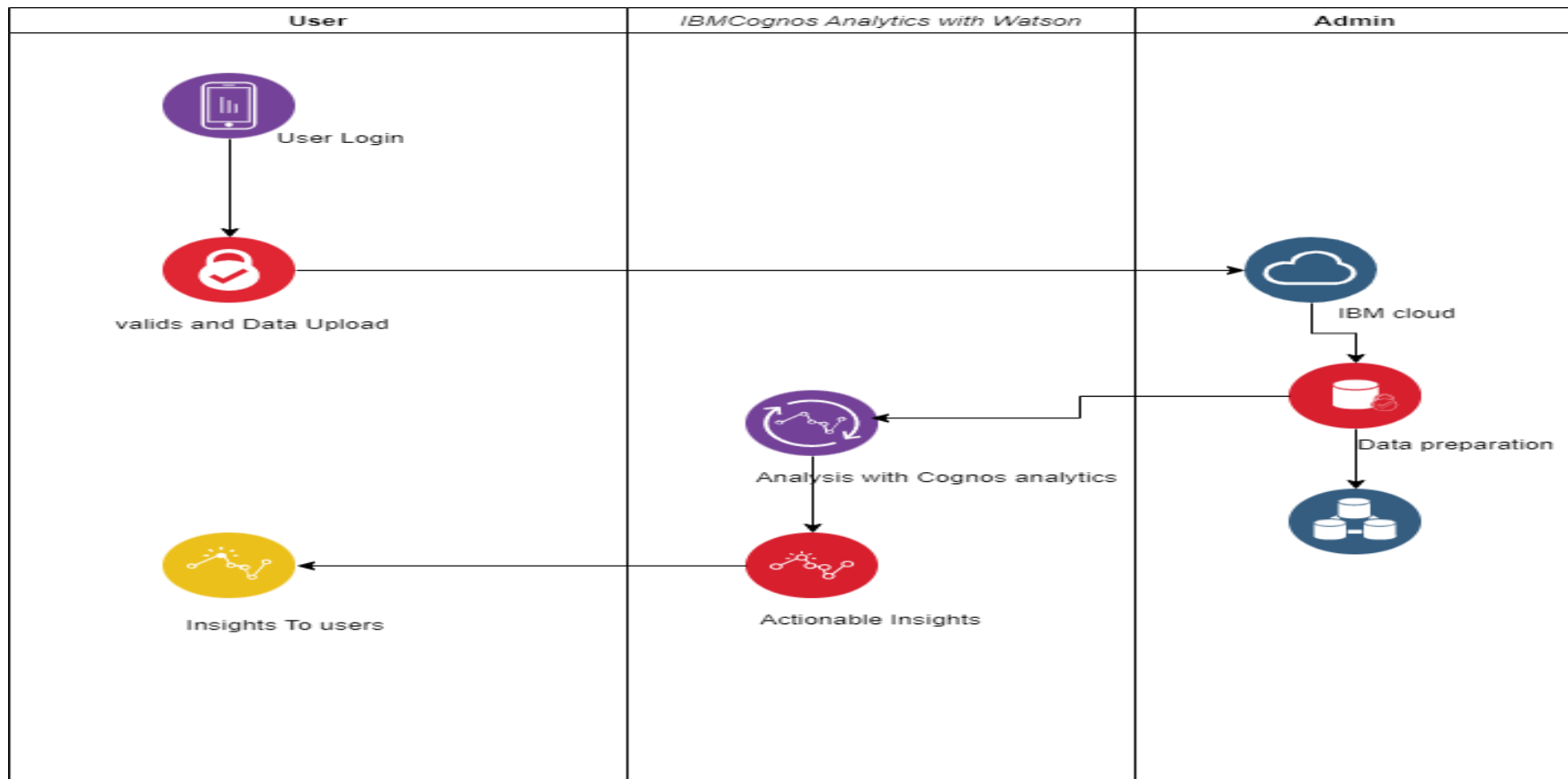
Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Simple UI with Dashboard and Graphs, pie chart	HTML, CSS, JavaScript / Angular Js
2.	Application Logic-1	Data upload	IBM Cognos Analytics with Watson
3.	Application Logic-2	Data Preparation to remove duplicate, outliers	Google collab in Python
4.	Application Logic-3	Data Analysis for useful insights	IBM Cognos Analytics with Watson
5.	Database	Data Type and Configurations	Rdbms
6.	Cloud Database	Database Service on Cloud	IBM Cognos Analytics with Watson
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-1	Purpose of External API used to authenticate user	Google Firebase
9.	External API-2	Purpose of External API used to analyses the data	IBM Cognos Analytics with Watson
10.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: ocalhost:8501 Cloud Server Configuration :	Localhost, IBM cloud

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Pandas Numpy SKlearn Angular JS	Python JavaScript
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