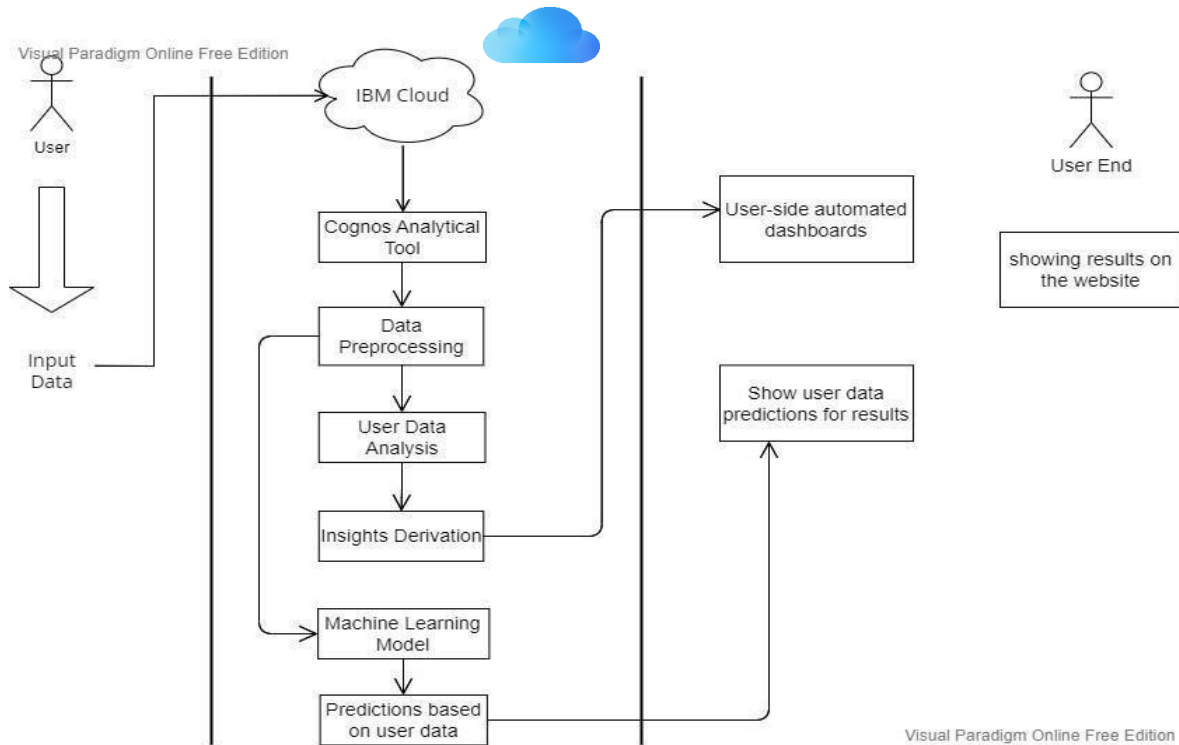


PROJECT DESIGN PHASE-II

Technology Stack (Architecture)

Date	14 October 2022
Team ID	PNT2022TMID20211
Project Name	Project – Global Sales Data Analytics
Maximum Marks	4 Marks

Technical Architecture:



TEAM MEMBERS:
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Table-1: Components & Technologies:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Google Collaboratory, Jupyter notebook	Google
2.	Security Implementations	To protect data from the unauthorized access	256-bit AES algorithm
3.	Scalable Architecture	Supports various data sizes	IBM Cloud

S.No.	Component	Description	Technology
1.	User Interface	User uploads the csv or excel format files into the web pages	HTML, CSS, JavaScript
2.	Application Logic-1	The user data will pass into the IBM cloud for storing and acts as a data source	IBM cloud
3.	Application Logic-2	In cloud, data will be fetched by the Cognos analytical tool for data analysis	IBM Cognos analytical tool
4.	Application Logic-3	The pre-trained Dashboards will be present to perform analysis on the incoming data	IBM Cognos analytical tool
5.	Database	Data will be retrieved from cloud	MySQL
6.	Cloud Database	Database Service on cloud	IBM DB2, IBM Cloud
7.	File Storage	Customer sales data is uploaded in cloud through interface	IBM Block Storage or Other Storage Service or Local Filesystem

8.	External API-1	To perform data analysis on the user data	IBM Cognos Tool
9.	External API-2	To build the machine learning model for classification	Jupyter Notebook
10.	Machine Learning Model	To do the predictive analysis on the input data	Predictive analysis model, etc.
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Using the flask Cloud Server Configuration: IBM cloud	Local, Cloud Foundry

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
4.	Availability	Multi page layout providing various visualizations of data and provide full support irrespective of platform and device specifications	Cognos Business Intelligence Server
5.	Performance	Withstand huge data and process them without crashing	IBM Cognos