Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	15th October 2022
Team ID	PNT2022TMID44306
Project Name	Global Sales Data Analytics
Maximum Marks	4 Marks

Technical Architecture:

User

Input
Data

IBM Cloud

Cognos Analytical
Tool

Data
Preprocessing

User Data
Analysis

Insights Derivation

Machine Learning
Model

Predictions based
on user data

User-side automated
dashboards

Show user data
predictions for results

User End

showing results on
the website
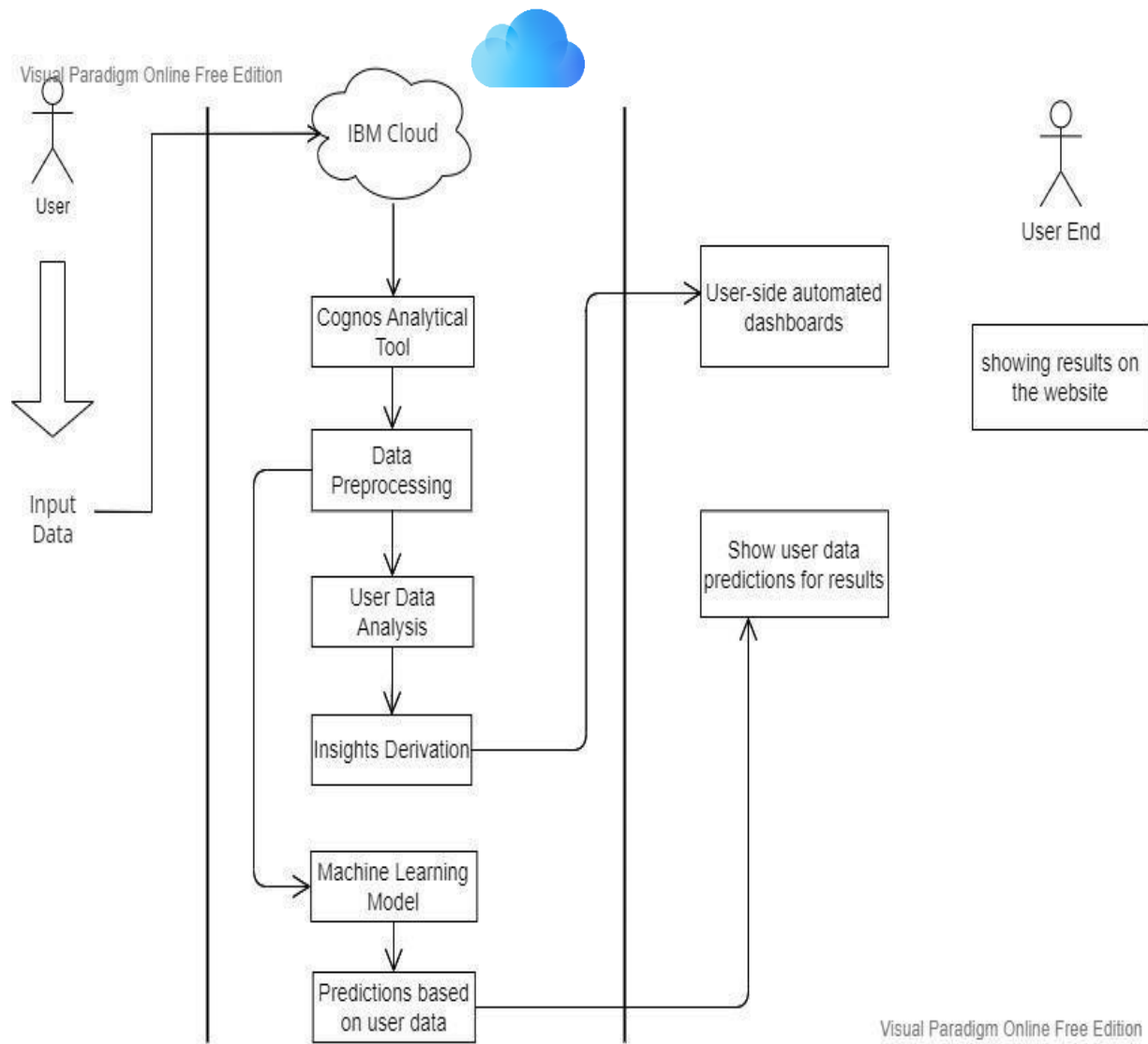
Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App etc.	HTML, CSS, JavaScript
2.	Application model-1	Logic for a process in the application	IBM cloud
3.	Application model -2	Logic for a process in the application	IBM Cognos analytical tool
4.	Cloud Database	Database Service on Cloud	IBM Cloud
5.	File Storage	File storage requirements	IBM Block Storage or Local Filesystem
6.	External API-1	Purpose of External API used in the application	IBM Cognos Tool
7.	Machine Learning Model	Purpose of Machine Learning Model	Predictive analysis model, etc.
8.	Infrastructure	Cloud Server Configuration or local system configuration	Local, Cloud Foundry

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Google Collaboratory, Jupyter notebook	Google
2.	Security Implementations	To protect data from the unauthorized access	Usage of algorithm
3.	Scalable Architecture	Compatible and portability	IBM Cloud
4.	Availability	Justify the availability of application	IBM Cloud