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

Date	16 October2022
Team ID	PNT2022TMID36407
Project Name	Retail Store Stock Inventory Analytics.
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

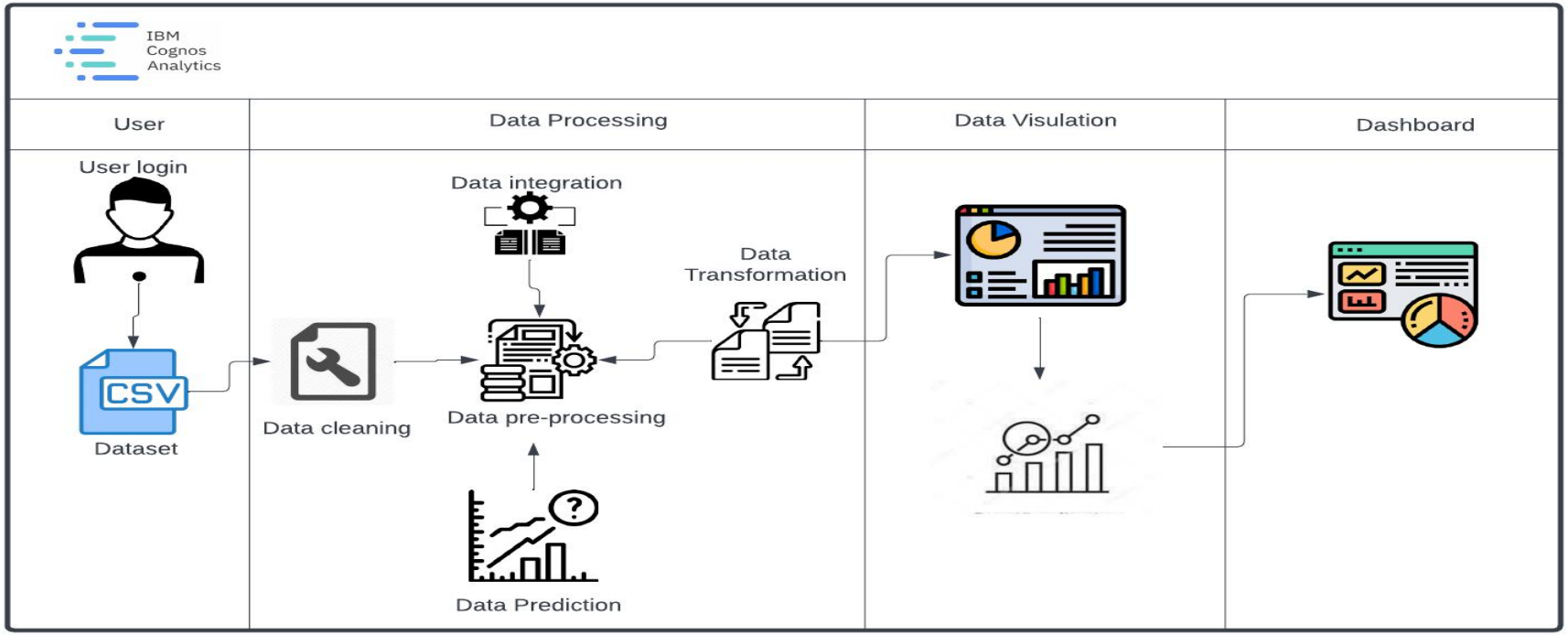

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	The user interacts with application e.g. Web UI.	HTML, CSS, JavaScript.
2.	Data Processing	The Data from the dataset is pre-processed	IBM Cognos Analytics.
3.	Cloud Database	The clean dataset is stored on IBM cloud.	IBM Cloud.
4.	Data Visualization	The data is Visualized into different forms	IBM Cognos Analytics, Python
5.	Prediction	These Algorithm techiques are used to predict the proper way to make the stock in store.	Ml algorithms, Logistic Regression, Linear Regression, Random Forest, ABC Techniques.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	the open-source frameworks used	IBM Cognos Analytics, Python
2.	Security Implementations	Request authentication using Encrytions.	Encrytions.
3.	Scalable Architecture	the scalability of architecture (3 – tier, Micro-services)	Web Server - HTML, CSS, JAVASCRIPT Application Server - Python Database Server - IBM Cloud
4.	Availability	the application is available for cloud users	IBM Cloud Hosting
5.	Performance	In this application is used to sale the more stock .	Basic web tools.