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
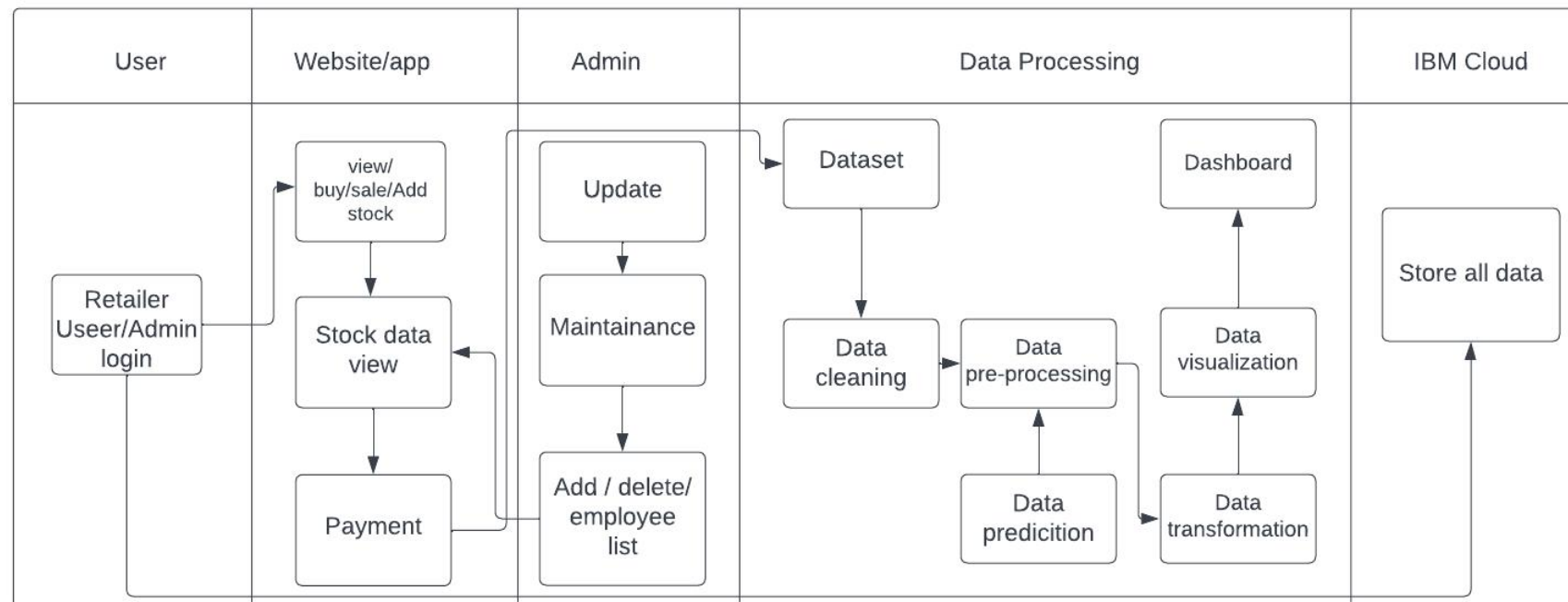
Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	The user interacts with application e.g. Web UI.	HTML, CSS, JavaScript.
2.	User Side	The use want to register then only there can purchase the product.	HTML, CSS, JavaScript.
3.	Admin Interface	The admin can check the product, then update the page.	HTML, CSS, JavaScript.
4.	Data Processing	The data from the dataset is pre-processed.	IBM Cognos Analytics
5.	Cloud Database	The clean dataset is stored on IBM Cloud.	IBM Cloud
6.	Data Visualization	The data is Visualized into different forms	IBM Cognos Analytics, Python

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	the open-source frameworks used	Visual studio code
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.
6.	Product order	If the stock get over. Its automatic order the stock	AI (Artificial Intelligence)