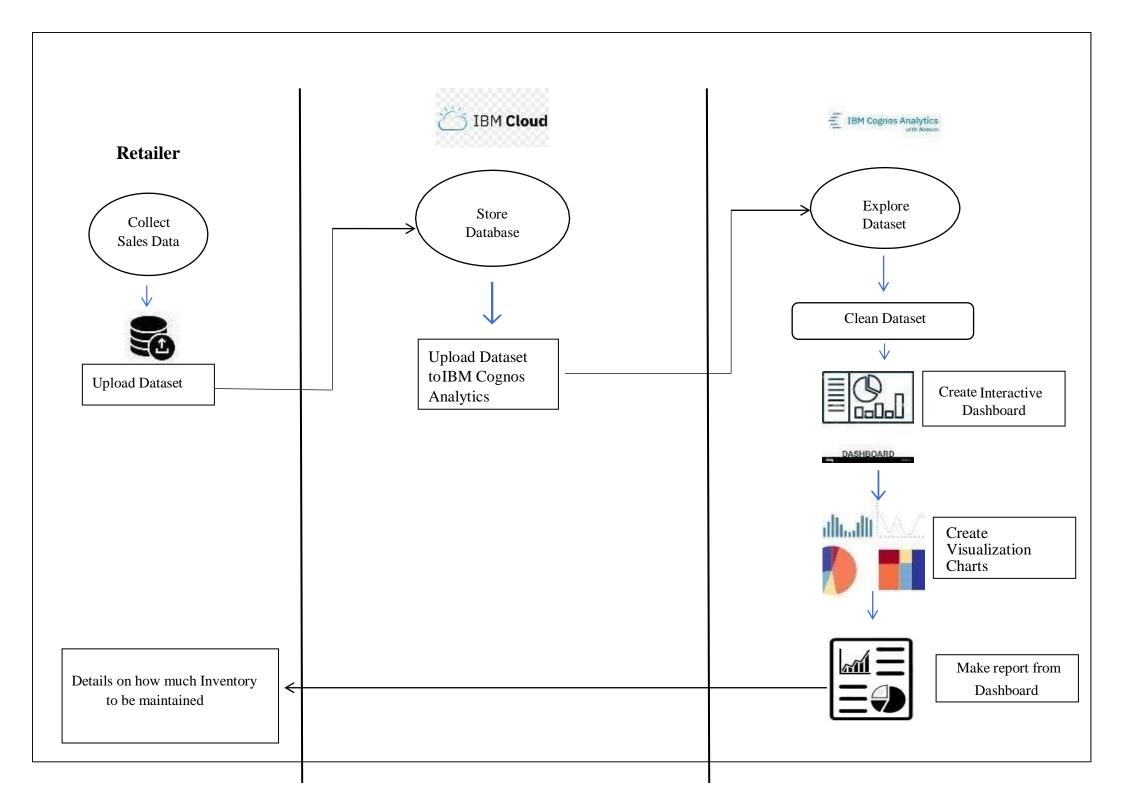
#### PROJECT DESIGN PHASE-II

### **Technology Stack (Architecture & Stack)**

TEAM ID	PNT2022TMID40086
PROJECT NAME	Retail Store Stock Inventory Analytics

#### TECHNICAL ARCHITECTURE:

The Deliverable shall include the architectural diagram as below and the information as per the table 1 & table 2



## **Table-1: Components & Technologies:**

S.No	Component	Description	Technology
1.	User Interface	The user interacts with applicationusing web UI	HTML, CSS, JavaScript
2.	Dataset Collection	The sales data is been collected	Retail Store
3.	Data Processing	The data from dataset is preprocessed	IBM Cognos Analytics with Watson
4.	Cloud Database	The dataset is uploaded in IBMcloud	IBM Cloud
5.	Data Visualization	The data is visualized with variouscharts	IBM Cognos Analytics with Watson, Python
6.	Prediction	The algorithm helps to predict the proper way to make inventory available	Logistic Regression, Linear Regression, Random Forest, ABC Technique
7.	Report	A detailed report is made from the dashboard	IBM Cognos Analytics with Watson

# **Table-2: Application Characteristics:**

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	IBM Cognos Analytics with Watsonis used	IBM Cognos Analytics with Watson, Python, Jupyter
			Notebook.
2.	Security Implementations	Authentication is undergone	Encryptions
3.	Scalable Architecture	This is a 3-tier application	Application server – Python Database Server – IBM
			Cloud
4.	Availability	The application is available for IBMCloud	IBM Cloud Hosting
		users	
5.	Performance	This makes retailer to maintain the inventory	ML Algorithms
		to make happy customers.	