

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

Date	03 October 2022
Team ID	PNT2022TMID21204
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

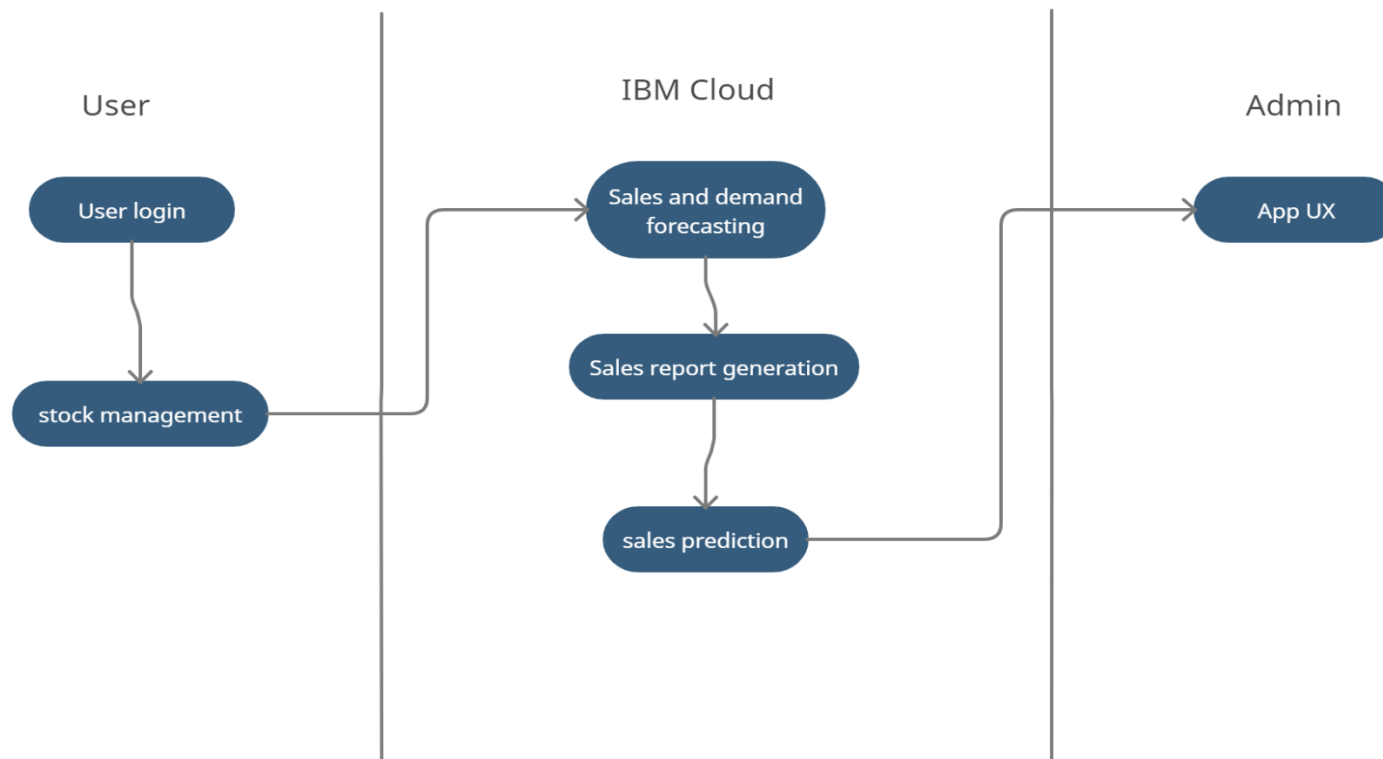


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Web user interface	HTML, CSS
2.	Application Logic-1	Sales and demand prediction	Python
3.	Application Logic-2	Sales report generation	IBM Cognos
4.	File Storage	Storing of sales report	IBM object storage
5.	Machine Learning Model	Purpose of Machine Learning Model	Regression model
6.	Infrastructure (Server / Cloud)	Application Deployment on Cloud	IBM Cloud

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	To visualize the data over a period of time and ensure reports are generated accurately.	IBM Cognos Analytics
2.	Scalable Architecture	The scalability of the application is ensured by multiple user access at the same time and 3 tier architecture will be implemented	IBM Cloud
3.	Availability	The application will be available anytime.	IBM Cloud
4.	Performance	The user knows how to maintain the inventory to increase profits	Regression model