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

Date	31 October 2022
Team ID	PNT2022TMID43133
Project Name	Retail Store Stock Inventory Analytics
Maximum Marks	

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2
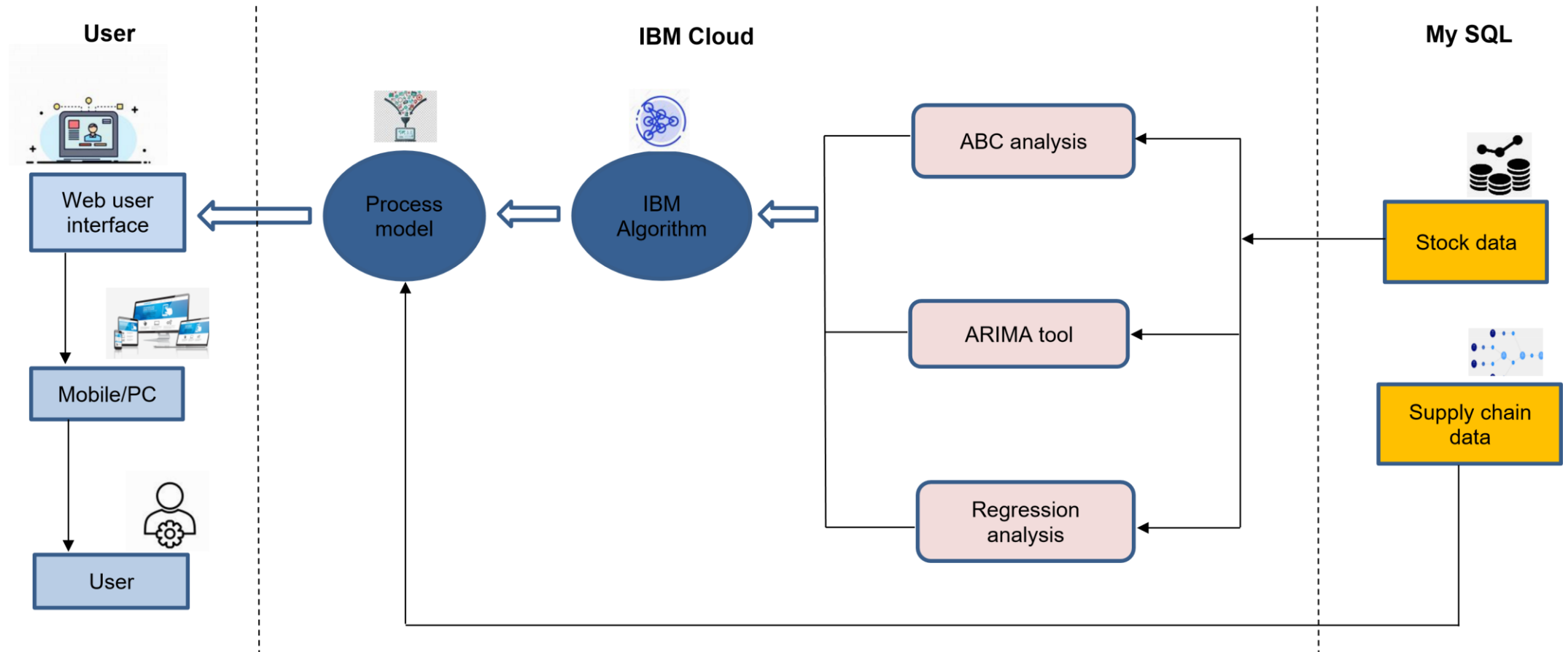
S. No	Component	Description	Technology
1.	User Interface	UI that shows the data visualization of available stocks.	HTML, CSS, JavaScript.
2.	Application Logic-1	ABC analyzing of the stock dataset.	Python.
3.	Application Logic-2	Analyzing stock in the inventory.	ARIMA tool.
4.	Application Logic-3	Regression analysis of the stock dataset.	Python.
5.	Database	Supply chain data.	MySQL.

Table-2: Application Characteristics:

S. No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Technology of Opensource framework
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	e.g., SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	3-tier micro-services.	Python.
4.	Availability	Use of load balancers distributed services	Python.
5.	Performance	100 request per second	Python.