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

Date	03 October 2022
Team ID	PNT2022TMID12577
Project Name	Inventory Management System for Retailers
Maximum Marks	4 Marks

Technical Architecture:

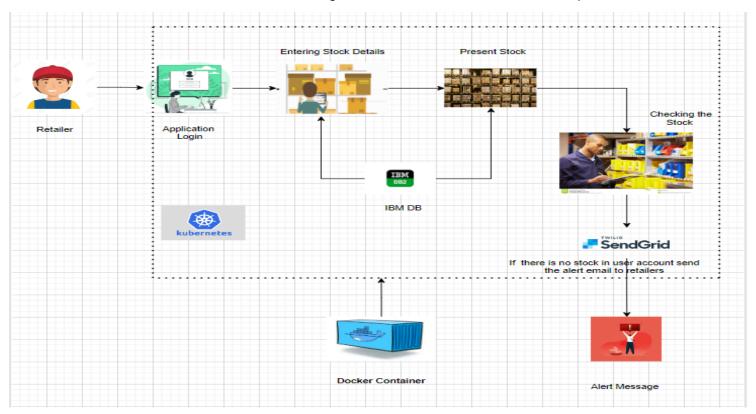The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Website User Interface	HTML, CSS, BootStrap
2.	Login	User can login to the application via Email and password	Java Servlet
3.	DashBoard	User can view the Stock Statistics on this page.	HTML,CSS,BootStrap
4.	Product Scanning	The Indivudual products can be scanned using Barcode Scanner.	Zia Barcode Scanner
5.	Database	User and Stock Data can be retrieved and Stored in DataBase..	MySQL
6.	Cloud Database	Database Service on Cloud	IBM DB2,.
7.	File Storage	File storage requirements	IBM Object Storage
8.	Alert Notification	If the User cannot have Stock on accounts the System will automatically sends an email to Retailers so that they can order a new stock.	SendGrid

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Styling a UI Page,Python using Flask Framework	Bootstrap,Python Framework
2.	Security Implementations	To Protect the IBM Cloud Data	IBM DataBase(IBM DB2)
3.	Scalable Architecture	Three Tier Architecture	DataBase – IBM DB2 Web Server-HTML,CSS,Bootstrap,JS Application – Docker,Flask Using Python
4.	Availability	Availability of Data Application	IBM Load Balancer
5.	Performance	Accessing Speed will be High	IBM Cloud