Project Design Phase-II
Technology Architecture

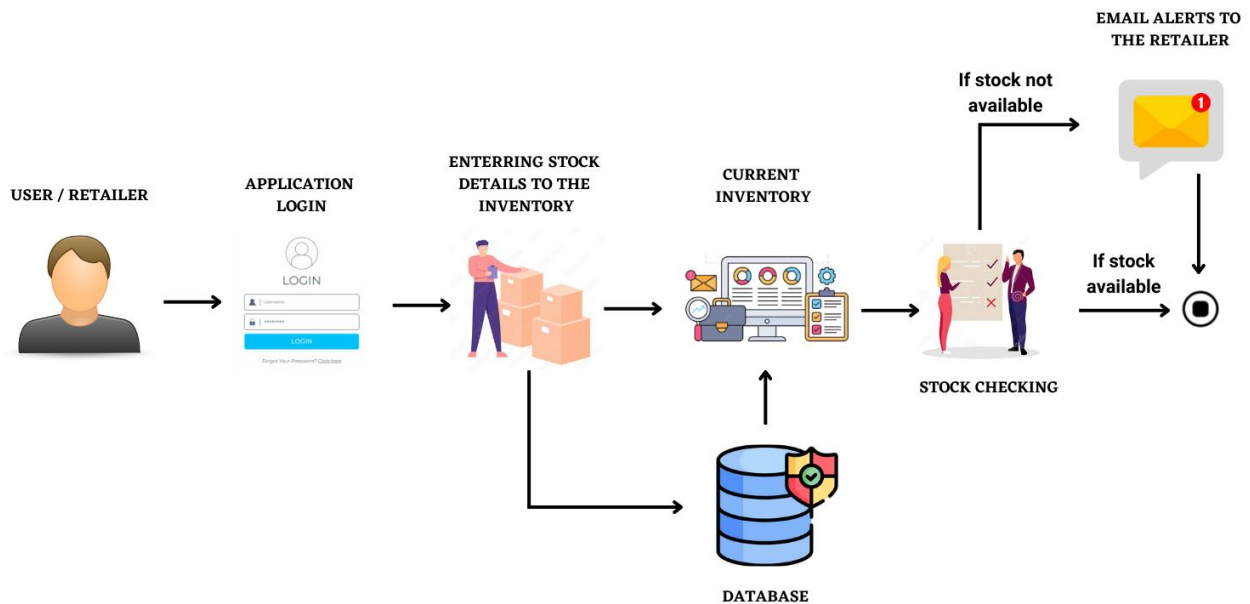| Date	27 October 2022
Team ID	PNT2022TMID17979
Project Name	Inventory Management System For Retailers
Maximum Marks	4 Marks

Technical Architecture:

Table-1 : Components & Technologies:

S. No	Component	Description	Technology
1.	User Interface	How user interacts with application, e.g. Mobile App, Chatbot.	HTML, CSS, Python, MySQL, Flask
2.	Application Logic-1	Logic for a process in the application	Python
3.	Application Logic-2	Logic for a process in the application	SendGrid
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloud.
7.	File Storage	File storage requirements	IBM Object Storage

Table-2: Application Characteristics:

S. No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Micro web framework, written in Python	Flask
2.	Security Implementations	a set of cryptographic hash functions	SHA-256
3.	Scalable Architecture	Kubernetes is an open-source container orchestration system for automating software deployment,scaling, and management.	Kubernetes
4.	Availability	To customize settings for the docker CLI. The configuration file uses JSON formatting.	Docker CLI
5.	Performance	To send alerts to users on based on their stock	Sendgrid