

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

Date	20 October 2022
Team ID	PNT2022TMID15205
Project Name	Inventory Management System For Retailers
Maximum Marks	4 Marks

Technical Architecture:

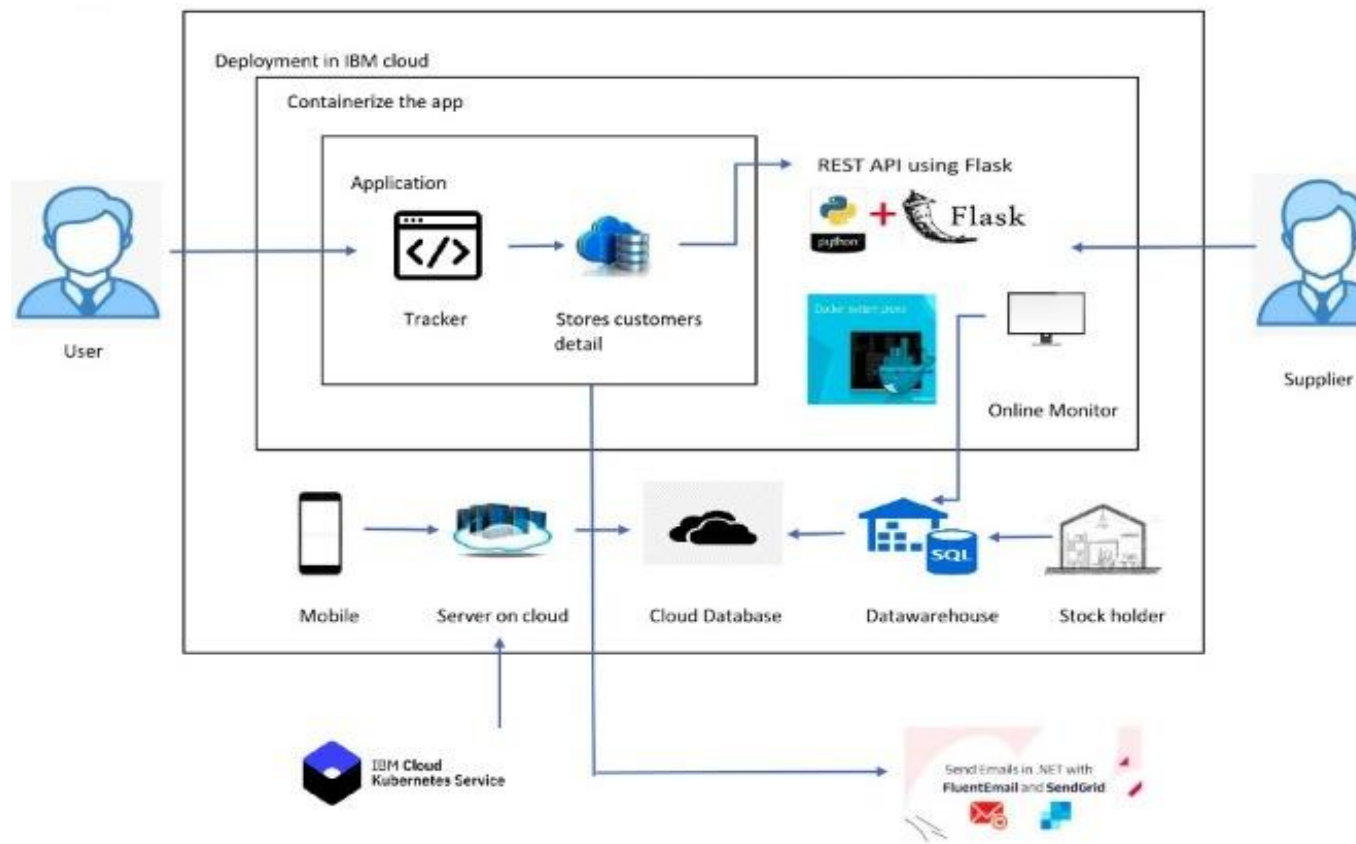


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Web UI	HTML, CSS, JavaScript
2.	Application Logic	Logic for a process in the application	Python Flask
3.	Database	Data Type, Configurations etc.	DB2
4.	Cloud Database	Database Service on Cloud	IBM DB2
5.	File Storage	File storage requirements	IBM Object Storage
6.	Indication	Receive an indication when an item trying to buy is too much than the stock available.	Sendgrid
7.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes, etc.
8.	Location	Can be able to see items from a particular store location	Python Flask

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	The technologies listed are used for open-source	HTML,CSS,JS,Python Flask
2.	Security Implementations	User login and authorization are done to implement the security access.	IBM cloud security
3.	Scalable Architecture	The architecture is possible because of virtualization	Docker,Kuberentees
4.	Availability	The system availability is made sure	IBM DB2
5.	Performance	The access and response time is much faster.	Python Flask,Docker,DB2