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

Date	08 November 2022
Team ID	PNT2022TMID07456
Project Name	Project - Inventory management system for retailers
Maximum Marks	4 Marks

Technical Architecture:
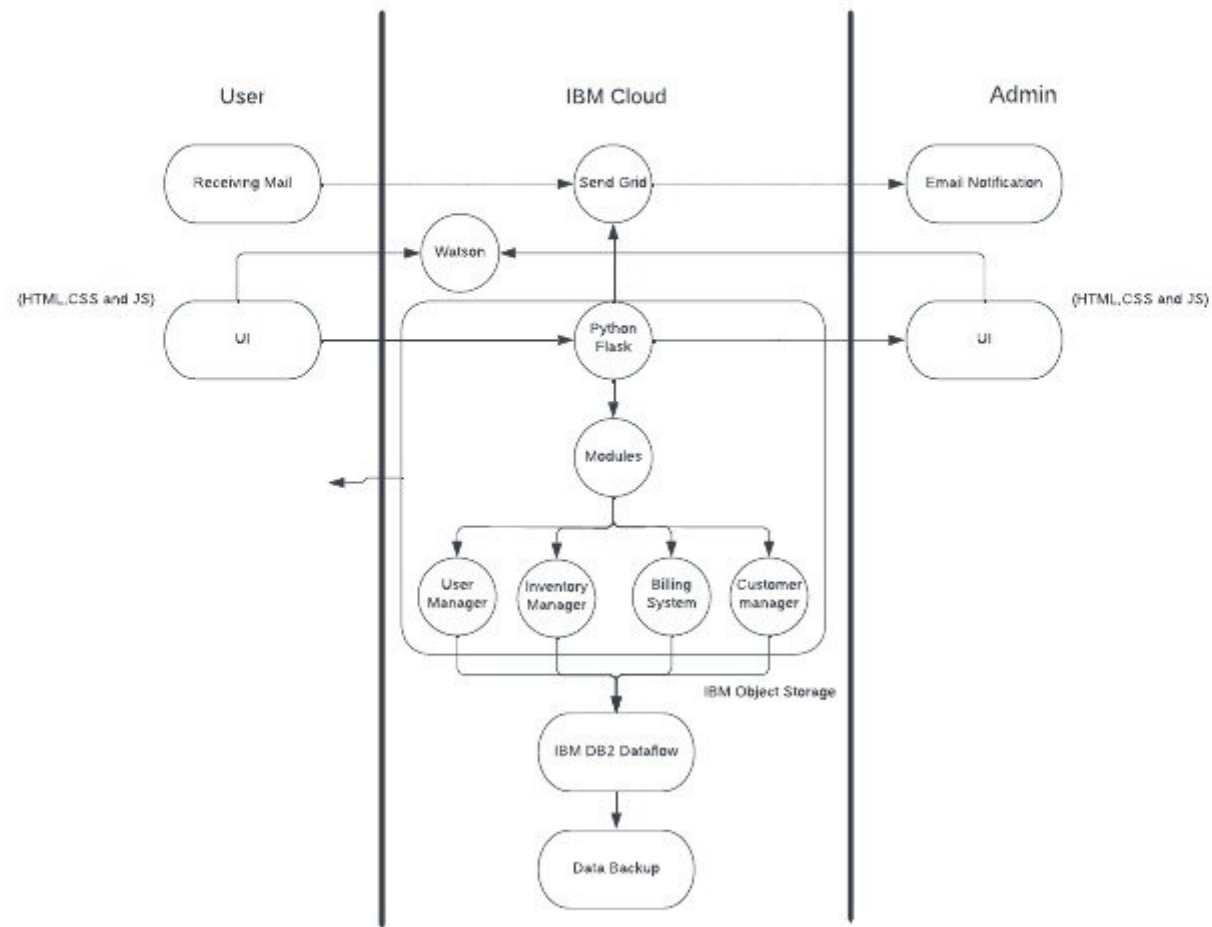
Table-1: Components & Technologies:

S.no	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chat bot etc.	HTML, CSS, JavaScript etc.
2.	Application Logic	Logic for a process in the application	Python-Flask
3.	Cloud Database	Database Service on Cloud	IBM DB2
4.	File Storage	File storage requirements	IBM Cloud Object Storage
5.	App Container	Contain the whole application in a single container	Docker Container / IBM Container Registry
6.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration:	Local, Cloud Foundry, Kubernetes, etc.
7.	Send Mails	Sending mails about stocks available in the Inventory to the Retailer	SendGrid

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	React Js / Flask
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	IBM Cloud Security
3.	Availability	Justify the availability of application (e.g., use of load balancers, distributed servers etc.)	Python-Flask