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

Technical Architecture:

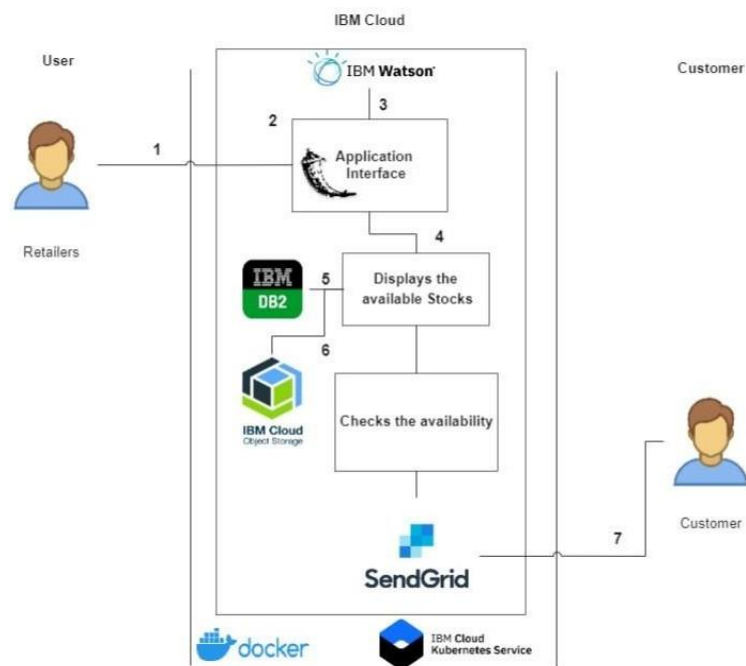The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

Table-1: Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User interacts with the cloud web application.	HTML, CSS, JavaScript
2.	Application Logic-1	Logic for a process in the application	Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson Assistant
4.	Database	Data Type, Configurations	MySQL
5.	Cloud Database	Database Service on Cloud	IBM DB2
6.	File Storage	File storage requirements	IBM Object Storage
7.	Infrastructure (Server / Cloud)	Kubernetes is an open-source container orchestration system for automating software deployment, scaling, and management	Kubernetes

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Micro web framework, written in Python	Flask
2.	Security Implementations	List all the security/access controls implemented, use of firewalls, etc.	SHA-256
3.	Scalable Architecture	Kubernetes is an open-source container orchestration system for automating software deployment, scaling, and management.	Kubernetes
4.	Availability	Docker CLI stores its configuration files in a directory called .docker within your $HOME directory.	Docker CLI

S.No	Characteristics	Description	Technology
5.	Performance	To send alerts to users based on their stock	Sendgrid