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

Date	5 NOVEMBER 2022
Team ID	PNT2022TMID45514
Project Name	Project – Inventory Management System for Retail Store
Maximum Marks	4 Marks

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

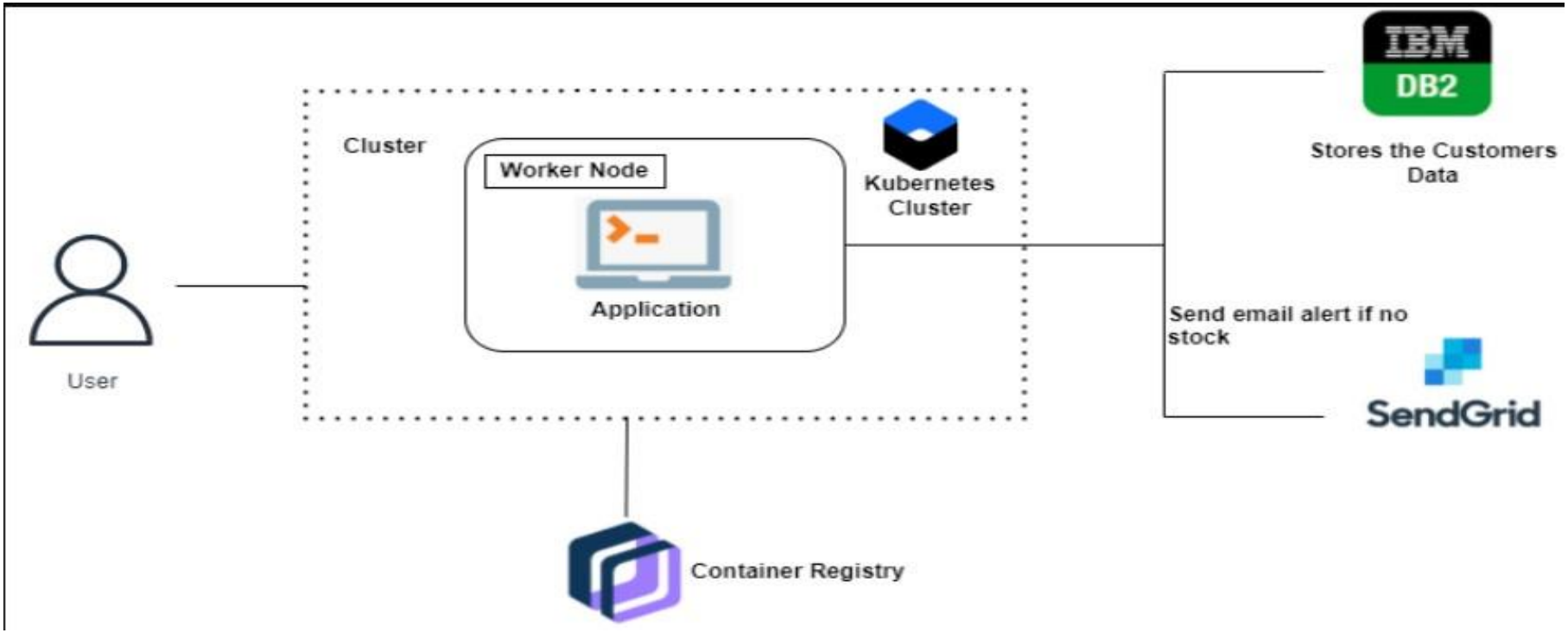

Table-1 : Components & Technologies:

S .No	Component	Description	Technology
1.	User Interface	How the user interacts with the application e.g. Web UI, Mobile App, Chatbot, etc.	HTML, CSS, JavaScript, Python
2.	Application Logic-1	The logic for a process in the application	IBM Watson STT service
3.	Application Logic-2	The logic for a process in the application	IBM Watson Assistant
4.	Database	Data Type, Configurations, etc.	MySQL.
5.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloud, etc.
6.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
7.	External API-1	Purpose of External API used in the application	SendGrid
8.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud	Kubernetes, Docker, IBM Cloud

Table 2: Application Characteristics:

S .No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask is used for interaction and connection with the application	Python Flask
2.	Scalable Architecture	Presenting tier: User interface for login and updating stocks.	HMTL, CSS, Flask, IBM DB2
3.	Availability	Availability can be made by using the cloud.	Kubernetes, Docker
4.	Performance	The performance of the application can be improved by adding the containers in the cloud DB	Kubernetes, Docker