

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

Date	03 October 2022
Team ID	PNT2022TMID00278
Project Name	Project – Inventory management system for retailers
Maximum Marks	4 Marks

Technical Architecture:

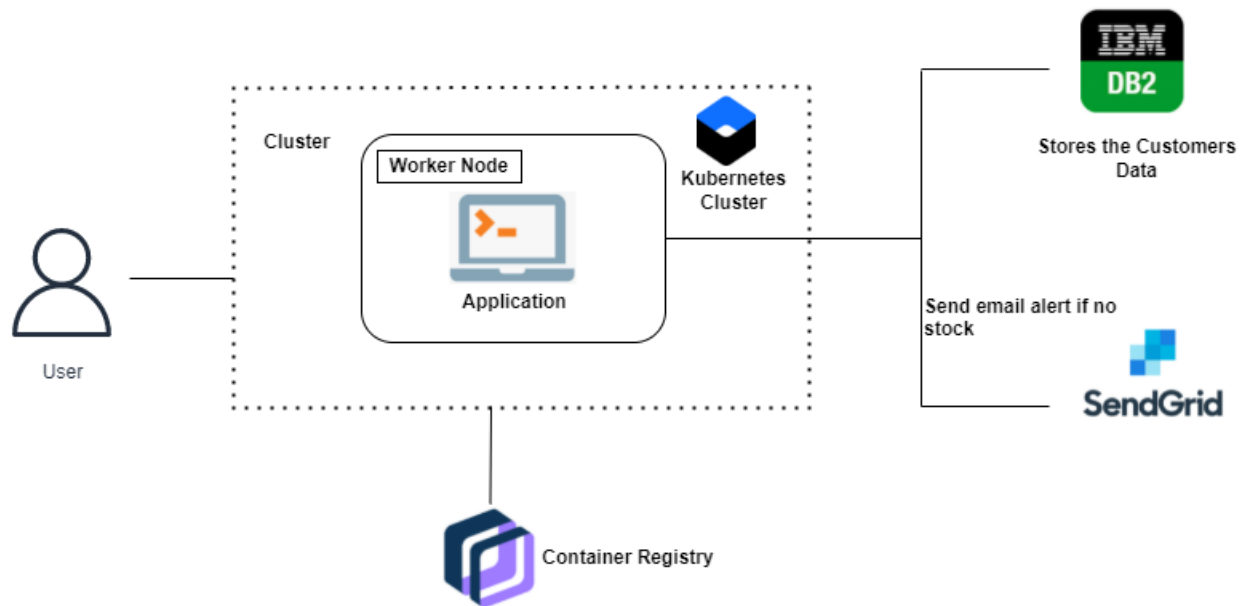


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, Docker, Flask
2.	Application Logic-1	Logic for a process in the application	Python -flask
3.	Database	Data Type, Configurations etc.	MySQL
4.	Cloud Database	Database Service on Cloud	IBM DB2
5.	File Storage	File storage requirements	IBM Cloud
6.	Send mail	To send mail to the user	IBM SendGrid
7.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	HTML, CSS, flask are used as open source framework	HTML, CSS, flask, python
2.	Security Implementations	User login and authentication	IBM cloud security
3.	Scalable Architecture	The system can be scaled by adding new features using this technology	Kubernetes cluster
4.	Availability	System availability is ensured as IBM DB2 is used to store the data	IBM DB2
5.	Performance	Fast response using SendGrid	SendGrid, IBM cloud

References:

<https://www.ibm.com/cloud/architecture>