Project Design Phase-II

Technology Stack (Architecture &Stack)

Date	01 November 2022
Team ID	PNT2022TMID34848
Project Name	Project – Customer Care Registry
Maximum Marks	4 Marks

Technical Architecture:

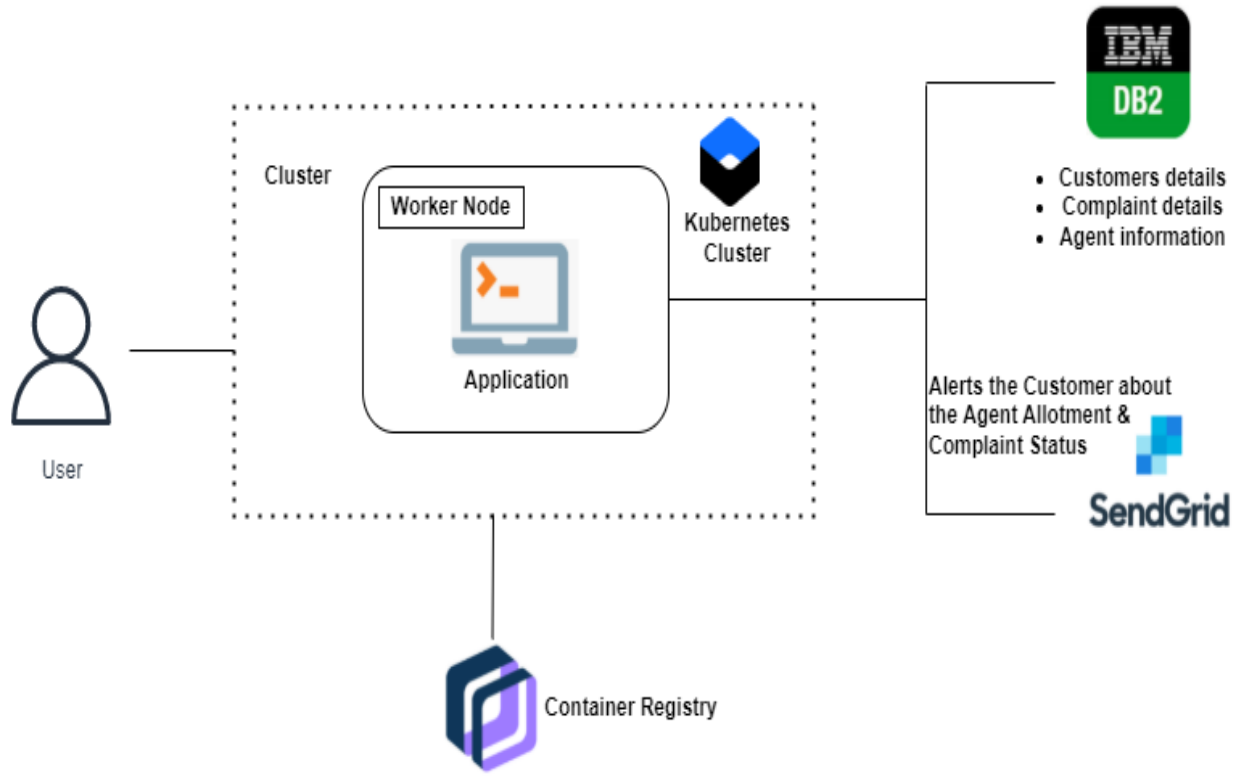

Table-1: Components & Technologies:

S. No	Component	Description	Technology
1.	User Interface	Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript / Angular JS / React JS etc.
2.	User Login	User can login either through their g-mail account or an account in the app server	Google OAuth for Google Sign-in. Hashed password in DB
3.	Application Logic-1	Logic for a process in the application	Python
4.	Application logic 2	Logic for a process in the application	IBM Watson service
5.	Application logic 3	Logic for a process in the application	IBM Watson Assistant
6.	Database	User data are stored in the MySQL database	MySQL, etc.
7.	Cloud Database	Database service on Cloud	IBM DB2, IBM Cloudant etc.
8.	File Storage	Used to store the data of the user	IBM Block Storage or Other Storage Service or Filesystem
9.	Google OAuth	Allows user to share their information and permission from the users to store files in their Google Drives	Google Drives
10.	Cloud Deployment	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	IBM Open-Source and other options available	Python-Flask
2.	Security Implementations	List all the security/ access controls implemented, use of firewalls etc.	Container Registry, Kubernetes Cluster
3.	Scalable Architecture	Justify the scalability of architecture	Container Registry, Kubernetes Cluster
4.	Availability	Maintaining the availability of application by using distributed servers and high performance IBM frameworks	Container Registry, Kubernetes Cluster
5.	Performance	Increasing the UI performance and customer satisfaction with latest technology and support	Kubernetes Cluster