

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

Date	26 October 2022
Team ID	PNT2022TMID07931
Project Name	Cloud Application Development- Customer Care Registry
Maximum Marks	4 Marks

Technical Architecture:

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

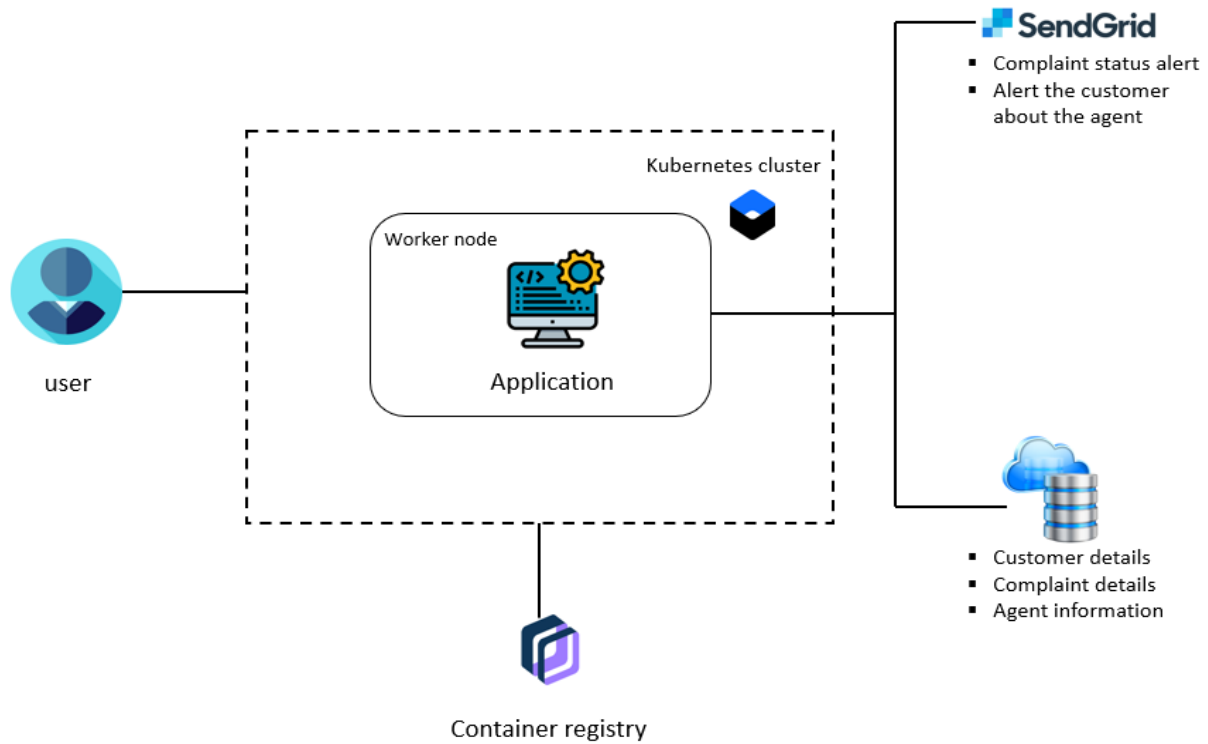


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	The user interacts with the web application by entering their user credentials	HTML, CSS, JavaScript
2.	E-mail confirmation	A user will receive a confirmation email once they register.	Confirmation of Email
3.	Login	A user can log into the application by entering their email & password.	HTML, CSS, JavaScript
4.	Login	A customer can fill in personal details.	HTML, CSS, JavaScript
5.	Details	An agent can see the customer's details.	HTML, CSS, JavaScript
6.	Database	Admin can store and retrieve the customer details.	MySQL
7.	Cloud Database	An admin can store the customer details.	IBM DB2, Object storage
8.	Details	The customer will request queries through the web application.	HTML, CSS, Java script
9.	Cloud Database	Agent will check and responding the queries.	IBM DB2, Object storage
10.	Email	Customer can confirm that the problem is resolved through email from the agent.	Confirming email verification.

Table 2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask	Python Flask
2.	Security Implementations	List all the security/access controls implemented, use of firewalls, etc.	Encryptions, OWASP, etc
3.	Scalable Architecture	Justify the scalability of the architecture	Kubernetes
4.	Availability	Justify the availability of applications	HTML, CSS, Java script, Python, IBM Cloud
5.	Performance	Design consideration for the performance of the application	Kubernetes