Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	15 October 2022
Team ID	PNT2022TMID52252
Project Name	Customer Care Registry
Maximum Marks	4 Marks

Technology Architecture:
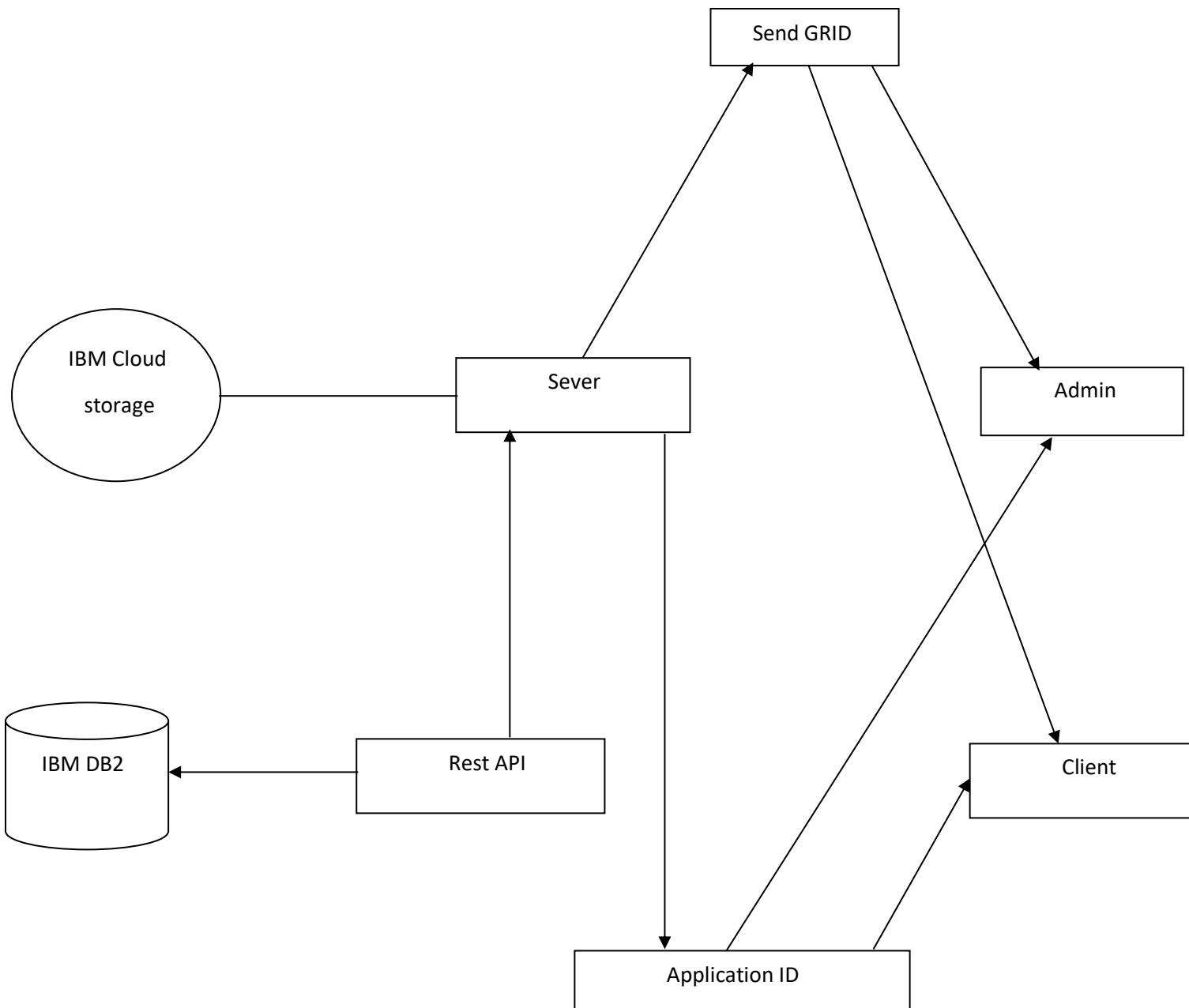
Table-1 Components & Technologies:

S.NO	Components	Description	Technology
1.	User Interface	How user interacts with application e.g, Web UI, Mobile App, Chatbot etc.	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
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configuration etc.	MySQL
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	Infrastructure (Server/Cloud)	Application Deployment on Local System/ Cloud Local Sever Configuration: Cloud Sever Configuration:	IBM Cloud Foundry, Kubernetes

Table-2 Application Characteristics:

S.NO	Characteristics	Description	Technology
1.	Open-Source Framework	List the open-source framework used	Python Flask
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	e.g, Encryption, Intrusion, firewalls
3.	Scalable Architecture	Justify the scalability of architecture (3-tier, Micro-services)	Virtual Machines
4.	Availability	Justify the availability of application (e.g use of load balance, distributed servers etc.)	Microservices
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN'S) etc.	CI/CD