

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

Date	03 October 2022
Team ID	PNT2022TMID29826
Project Name	Project - CUSTOMER CARE REGISTRY
Maximum Marks	4 Marks

Technical Architecture:

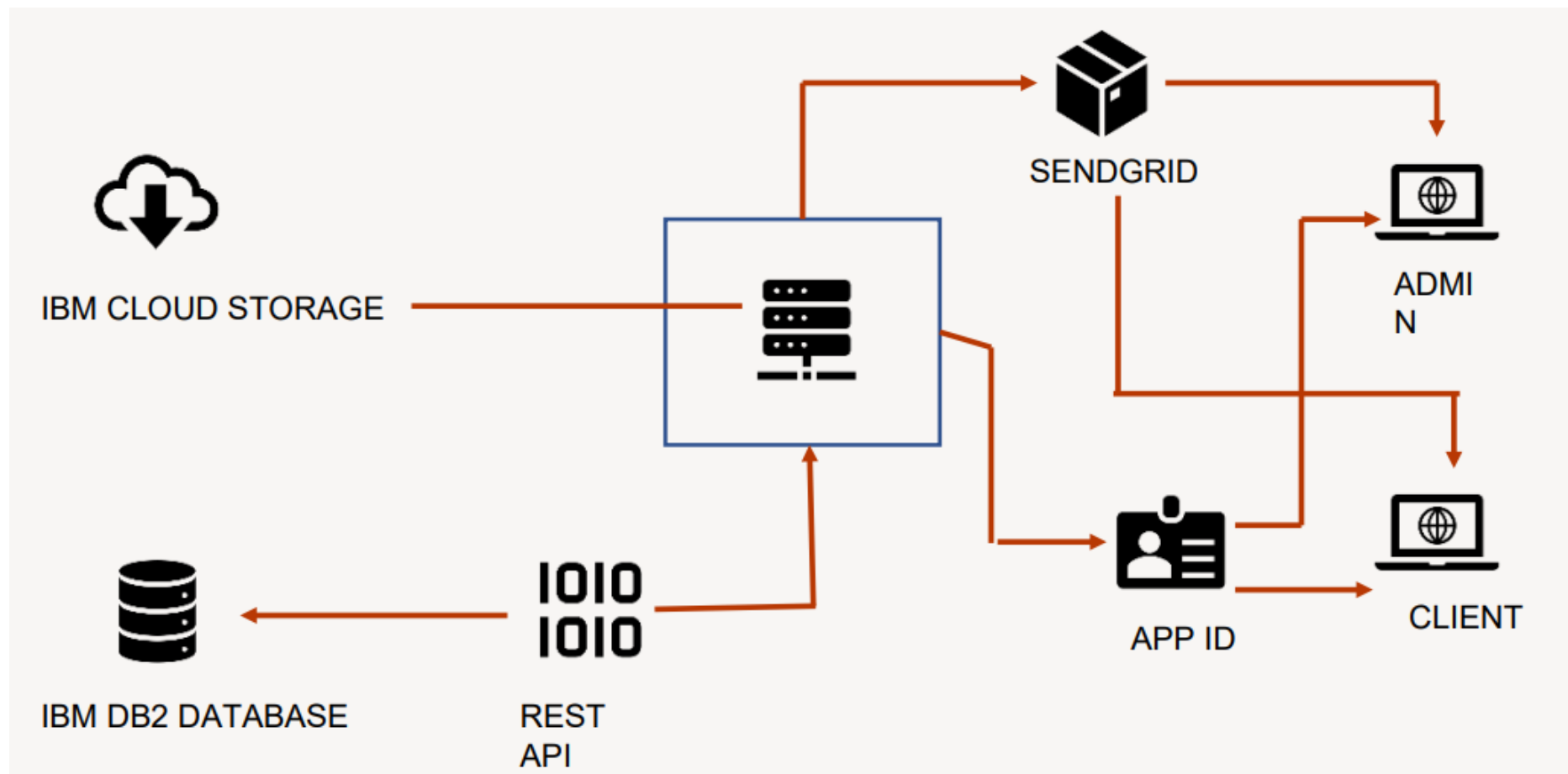


Table-1: Components & Technologies:

S. No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Chatbot etc.	HTML, CSS.
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 STT service
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	SQL
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloud ant 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 Server Configuration: Cloud Server Configuration:	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S. No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Python Flask
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	Encryptions, Intrusion Detection Software, Antivirus, Firewall.
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Support higher workloads without any fundamental changes to it.
4.	Availability	Justify the availability of application (e.g., use of load balancers, distributed servers etc.)	High availability enables your IT infrastructure to perform even when some of its components fail.

S. No	Characteristics	Description	Technology
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Performance Technology, therefore is a field of practice that uses various tools, processes, and ideas in a scientific, sematic manner to improve the desired outcomes of individuals and organizations.