# PROJECT DESIGN PHASE – II
# TECHNOLOGY ARCHITECTURE

| Date | 27 October 2022 |
|------|-----------------|
| Team ID | PNT2022TMID29528 |
| Project Name | Customer Care Registry |
| Maximum marks | 4 marks |

## TECHNOLOGY ARCHITECTURE
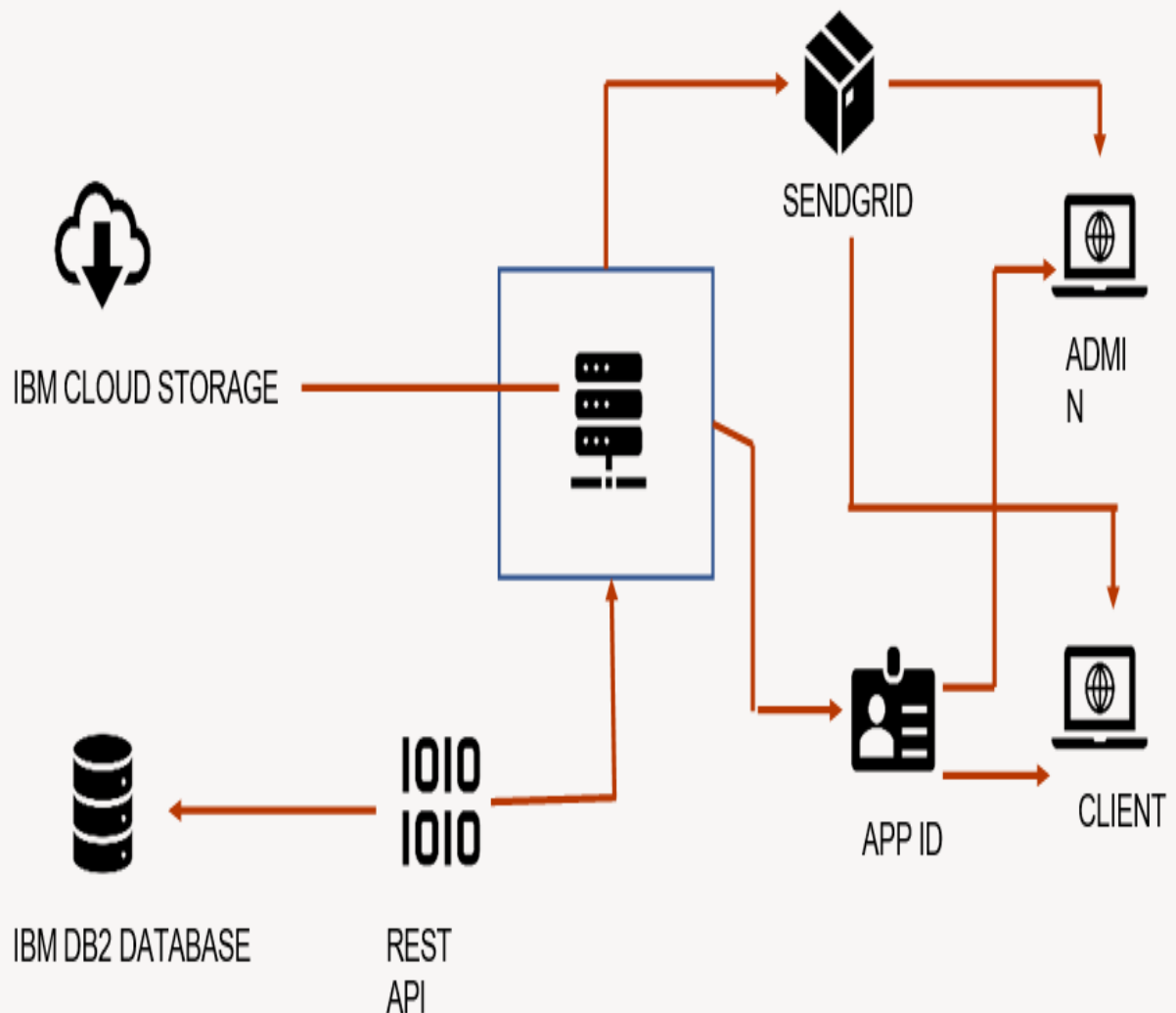
## Table 1 - Components and technologies:

| S.No | Component | Description | Technology |
|------|-----------|-------------|------------|
| 1. | User Interface | How user interacts with the application Eg) Web UI, Mobile App,Chatbot, etc | HTML, CSS, Javascript/Angular Js/React Js, Bootstrap etc. |
| 2. | Application Logic-1 | Logic for a process in the application | Python |
| 3. | Application Logic-2 | Logic for a process in theapplication | IBM Watson STT service |
| 4. | Application Logic-3 | Logic for a process in theapplication | IBM Watson Assistant |
| 5. | Database | Data Type , Configuration etc | MySQL,etc. |
| 6. | Cloud Database | Database service on cloud | IBM DB2, IBM Cloudant etc. |
| 7. | File Storage | File storage requirement | IBM  Block storage or other storage service or Local Filesystem. |
| 8. | Infrastructure | Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration: | Local, Cloud Foundry,etc |

**Table 2 – Application Characteristics:**

| S. No | Characteristics | Description | Technology |
|---|---|---|---|
| 1. | Open-Source Frameworks | List the open-source frameworks used | python flask |
| 2. | Security Implementation | List all the security/access controls implemented, use of firewalls etc. | e.g., encryption, intrusion detection software, antivirus, firewalls |
| 3. | Scalable Architecture | Justify the scalability of architecture (3-tier, Micro-services) | supports higher workloads without any fundamental changes to it. |
| 4. | Availability | Justify the availability of theapplication (eg, use of load balances, distributed servers etc.) | High availability enables your IT infrastructure to continue functioning even when some of its components fail. |
| 5. | Performance | Design consideration for the performance of the application(number of requests per sec, use of Cache, use of CDN) etc. | Performance technology, therefore, is a field of practice that uses various tools, processes, and ideas in a scientific, systematic manner to improve the desired outcomes of individuals and organizations |