**Requirement Gathering and Analysis Phase**

**Technology Stack (Architecture & Stack)**

|  |  |
| --- | --- |
| Date |  |
| Team ID | PNT2022TMIDxxxxxx |
| Project Name | Project - xxx |
| Maximum Marks |  |

**Table-1 : Components & Technologies:**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Component** | **Description** | **Technology** |
|  | User Interface | How user interacts with application e.g.  Web UI, Mobile App, Chatbot etc. | HTML, CSS, JavaScript , React Js |
|  | CRUD Operation for food items | Logic for a process in the application | Express.js , NodeJS |
|  | CRUD Operation | Logic for a process in the application | Node.js |
|  | Database | Data Type, Configurations etc. | MongoDB |
|  | Cloud Database | Database Service on Cloud | MongoDB Atlas |
|  | File Storage | File storage requirements | Local storage |
|  | Machine Learning Model | Purpose of Machine Learning Model | Object Recognition Model |
|  | 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** |
| --- | --- | --- | --- |
|  | Open-Source Frameworks | List the open-source frameworks used | Technology of Opensource framework |
|  | Security Implementations | List all the security / access controls implemented, use of firewalls etc. | BTRYPT for matching user password |
|  | Scalable Architecture | Justify the scalability of architecture (3 – tier, Micro-services) | Microservices architecture |
|  | Availability | Justify the availability of application (e.g. use of load balancers, distributed servers etc.) | Load balancers, distributed servers |
|  | Performance | Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN’s) etc. | Caching with Redis, use of CDNs |