**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

| Date | 30June2025 |
| --- | --- |
| Team ID | LTVIP2025TMID47159 |
| Project Name | smart sorting: transfer learning for identifying rotten fruits and vegetables |
| Maximum Marks |  |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| --- | --- | --- |
| FR-1 | User Registration | Registration through Form  Registration through Gmail  Registration through LinkedIN |
| FR-2 | User Confirmation | Confirmation via Email  Confirmation via OTP |
| FR-3 |  |  |
| FR-4 |  |  |
|  |  |  |
|  |  |  |

**Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

| **FR No.** | **Non-Functional Requirement** | **Description** |
| --- | --- | --- |
| NFR-1 | **Usability** | The system should provide a simple and intuitive user interface, allowing users such as farmers or food suppliers to easily upload fruit/vegetable images and get classification results without requiring technical expertise. |
| NFR-2 | **Security** | The system must ensure secure handling of user-uploaded images and protect any sensitive data through secure file transfer protocols and access control mechanisms. |
| NFR-3 | **Reliability** | The application must consistently provide accurate predictions and maintain operational consistency even under varying workloads or user inputs. |
| NFR-4 | **Performance** | The system should respond quickly, ideally delivering predictions within a few seconds of image upload, ensuring minimal delay in user interaction. |
| NFR-5 | **Availability** | The application should be accessible 24/7 with minimal downtime, ensuring users can access the service whenever needed. |
| NFR-6 | **Scalability** | The system should be able to handle increased loads such as multiple concurrent users or large image datasets without degradation in performance. |