

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

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| Date | 27 june 2025 |
| Team ID | LTVIP2025TMID59858 |
| Project Name | Smart Sorting: Transfer Learning for Identifying Rotten Fruits and Vegetables |
| Maximum Marks | 4 Marks |

Functional Requirements:

Following are the functional requirements of the proposed solution.

| FR No. | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task) |
|--------|-------------------------------|--|
| FR-1 | Fruits & Vegetables freshness | Removing rotten fruits and vegetables |
| FR-2 | Accuracy | Accuracy of predicting the fruits and vegetables freshness |
| FR-3 | User Satisfaction | Satisfaction of user with the accuracy of prediction |

Non-functional Requirements:

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

| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|---|
| NFR-1 | Usability | The system shall provide a simple, and user-friendly web interface that allows users with minimal technical knowledge to easily view freshness predictions. |
| NFR-2 | Reliability | The system shall consistently provide accurate predictions under normal operating conditions. |
| NFR-3 | Performance | The system shall deliver predictions within 2-3 seconds with good accuracy. |
| NFR-4 | Availability | The system shall be available and operational at all times during demonstrations or real-time usage sessions. |
| NFR-5 | Scalability | The system design shall allow for future scalability, including handling higher user traffic, supporting batch prediction. |