**Project Design Phase-II**

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

|  |  |
| --- | --- |
| **Date** | 27 june 2025 |
| **Team ID** | LTVIP2025TMID59882 |
| **Project Name** | TrafficTelligence: Advanced Traffic Volume Estimation with Machine Learning |
| **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. |