

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

<b>Date</b>	28 June 2025
<b>Team ID</b>	LTVIP2025TMID59806
<b>Project Name</b>	TrafficTelligence: Advanced Traffic Volume Estimation with Machine Learning
<b>Maximum Marks</b>	

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

<b>FR No.</b>	<b>Functional Requirement (Epic)</b>	<b>Sub Requirement (Story / Sub-Task)</b>
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.

<b>FR No.</b>	<b>Non-Functional Requirement</b>	<b>Description</b>
NFR-1	<b>Usability</b>	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	<b>Reliability</b>	The system shall consistently provide accurate predictions under normal operating conditions.
NFR-3	<b>Performance</b>	The system shall deliver predictions within 2-3 seconds with good accuracy.
NFR-4	<b>Availability</b>	The system shall be available and operational at all times during demonstrations or real-time usage sessions.
NFR-5	<b>Scalability</b>	The system design shall allow for future scalability, including handling higher user traffic, supporting batch prediction.

