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

Date	28 june 2025
Team ID	LTVIP2025TMID59918
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	**Preprocessing of Images**	The system must preprocess input images before feeding them to the model.
FR-2	**Accuracy**	Accuracy of predicting the fruits and vegetables freshness
FR-3	**User Satisfaction**	Satisfaction of user with the accuracy of prediction
FR-4	**Batch Processing Support**	For industrial use, the system should allow batch image classification

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Performance**	In batch processing, it should be able to handle hundreds of images with minimal delay.
NFR-2	**Scalability**	The system should support scaling to multiple users or devices without degradation in performance.
NFR-3	**Adaptability**	The solution should allow for easy integration of new fruit/vegetable types or spoilage categories with minimal retraining.
NFR-4	**Usability**	The user interface should be simple, intuitive, and accessible for both technical and non-technical users.
NFR-5	**Reliability**	The model must produce consistent results with an accuracy of at least 90% or higher.