

Project Phase -2

Date	12 february 2026
Team ID	LTVIP2026TMIDS74869
Project Name	Transfer Learning for Identifying Rotten Fruits and Vegetables
Maximum Marks	4 Marks

Functional Requirements

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Image Input & Validation	Accept fruit/vegetable images (JPG/PNG) and validate format, size, and quality before processing.
FR-2	Freshness Prediction	Classify uploaded image as Healthy or Rotten using trained ML/CNN model.
FR-3	Data Preprocessing	Resize images, normalize pixel values, and prepare data for model inference.
FR-4	Model Inference	Load trained freshness detection model and return prediction with confidence score.
FR-5	Alert & Notification System	Display warning message when rotten produce is detected.
FR-6	Dashboard & Reporting	Show prediction results, summary statistics, and freshness trends.
FR-7	Dataset & Model Management (Admin)	Upload/update image dataset and retrain model when needed.
FR-8	User Interface	Provide simple web interface for image upload and result visualization.
FR-9	Model Performance Monitoring	Display accuracy, precision, recall, and confusion matrix.
FR-10	System Logging	Log prediction results and user activity for monitoring and auditing.