Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	31 January 2025
Team ID	LTVIP2025TMID41474
Project Name	Smart-Sorting
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	User Registration	Registration through Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Image Upload & Prediction	Upload fruit/vegetable image Model predicts if item is healthy or rotten Display predicted class and confidence
FR-4	User Dashboard	View recent predictions Access uploaded image history
FR-5	Admin Panel	View all registered users Update ML model View prediction usage analytics
FR-6	Feedback & Support	Submit feedback or report issues Admin/customer executive responds to queries

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The application should have a clean, user-friendly interface for all users
NFR-2	**Security**	User data (credentials, images) must be stored and transmitted securely
NFR-3	**Reliability**	The system should accurately classify images with consistent performance
NFR-4	**Performance**	The model should give predictions within 2–3 seconds after upload
NFR-5	**Availability**	The system should be available 99% of the time, including peak hours
NFR-6	**Scalability**	The system should handle an increasing number of users and data uploads