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

Date	28 June 2025
Team ID	LTVIP2025TMID41766
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	User Registration	Registration through Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3		
FR-4		

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The system must be intuitive and easy to use, with a user-friendly interface that minimizes the learning curve. It should follow consistent design standards and provide clear navigation and feedback to enhance user satisfaction and productivity.
NFR-2	**Security**	The solution must ensure the confidentiality, integrity, and availability of data. It should implement strong authentication and authorization mechanisms, secure data transmission using encryption, and include measures such as input validation and audit logging to prevent security breaches.
NFR-3	**Reliability**	The system should consistently perform its intended functions without failure. It must handle faults gracefully, recover from errors where possible, and

		ensure data integrity during system or component failures.
NFR-4	**Performance**	The system must deliver acceptable response times under normal and peak load conditions. It should efficiently handle concurrent users and transactions, and meet performance benchmarks such as latency, throughput, and processing speed.
NFR-5	**Availability**	The system should be operational and accessible to users whenever required. It must support high uptime, minimize downtime due to maintenance or failures, and incorporate redundancy and failover mechanisms to ensure continuous service.
NFR-6	**Scalability**	The solution must be capable of handling increasing loads or expansion in functionality with minimal impact on performance. It should support both vertical and horizontal scaling to accommodate growth in users, data, and processing demands.