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

Date	27 June 2025
Team ID	LTVIP2025TMID35830
Project Name	Clean Teach: Transforming Waste Management
	with Transfer Learning
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 provides a clean and responsive web interface, allowing users to easily upload waste images and receive instant results.
NFR-2	Security	Image files are handled securely using Flask's file handling; system does not store any user data or images.
NFR-3	Reliability	The model consistently predicts accurate classifications for a wide variety of waste images under normal conditions.
NFR-4		The prediction amphe क्षांक्षा तात तिर्माणन किया प्रवास के का कि sec का का का का का किया किया किया किया किया
		Scalability The model and architecture can be scaled to integrate into mobile apps, smart bins, or cloud APIs with minimal changes.

NFR-5	Availability	The application runs locally 24/7 and can be
		deployed online with minimal downtime using
		platforms like Render or Heroku.
NFR-6	Scalability	The model and architecture can be scaled to
		integrate into mobile apps, smart bins, or cloud APIs
		with minimal changes.