

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

Date	30 June 2025
Team ID	LTVIP2025TMID32889
Project Name	TrafficTelligence: Advanced Traffic Volume Estimation with Machine 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	User Login	Login via Email & password Login via Gmail Login via LinkedIn
FR-4	Profile Management	View profile Edit profile Upload profile picture Change password

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The System Should provide a User -friendly interface that is intuitive responsive , and easy to navigate for all user type .
NFR-2	Security	The System must ensure data protection through encryption, secure authentication, and role based access controls.
NFR-3	Reliability	The System Should function consistently under expected condition and handle failures gracefully without data loss .

NFR-4	Performance	The System Should load all major functionalities (e.g, Registration login) with in 2 seconds under normal load.
NFR-5	Availability	The System Should maintain 99.9% uptime and be accessible 24/7 with minimal down time for maintenance.
NFR-6	Scalability	The System Should be able to handle increasing number of users and transections without degradation in performance.