Project Design Phase-II: Solution Requirements

Date: 21 July 2025

Team ID: LTVIP2025TMID45340

Project Name: Traffic Volume Estimation

Maximum Marks: 4 Marks

Functional Requirements

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	Traffic Volume Prediction	Enter route details and receive volume estimate View historical traffic trends
FR-4	Dashboard & Alerts	Real-time traffic volume dashboard Congestion alert notifications for authorities

Non-functional Requirements

FR	Non-Function	Description
No.	al	
	Requirement	
NFR	Usability	The system should provide a user-f

NFR Usability The system should provide a user-friendly interface for all users, ensuring ease of navigation and interaction.

NFR -2	Security	User data must be securely stored; communication must be encrypted; proper authentication and authorization must be enforced.
NFR -3	Reliability	The system should provide consistent predictions and availability with minimal downtime.
NFR -4	Performance	The system should provide predictions within 2 seconds of user request.
NFR -5	Availability	The service should be accessible at least 99% of the time, supporting 24/7 operations.
NFR -6	Scalability	The system should support increasing numbers of users and data sources without performance degradation.