Project Design Phase-II

Solution Requirements (Functional &   Non-functional)

Date	28 June 2025
Team ID	LTVIP2025TMID40374
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 TrafficTelligence.

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	Real-Time Traffic Monitoring	- Live camera & sensor integration - GPS data feed
FR-4	Smart Navigation & Suggestions	- AI-based route recommendation - Congestion alerts

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution**:**

Non-functional Requirement	Description
Performance	System should update traffic status every 30 seconds

Reliability	99.9% uptime for continuous traffic data services
Usability	Simple and user-friendly UI for all age groups
Security	End-to-end encrypted communication & secured login system
Scalability	Should support thousands of users across cities simultaneously