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

Date	30 June 2025
Team ID	LTVIP2025TMID60809
Project Name	TrafficTelligence: Advanced Traffic Volume Estimation with Machine Learning
Maximum Marks	4 Marks

Functional Requirements:

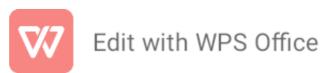Following are the functional requirements of the proposed solution.

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 Linked in
FR-4	Profile Management	Via 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	TheSystemShouldprovideaUser-friendlyinterface thatisintuitiveresponsive,andeasytonavigatefor allusertype.
NFR-2	Security	TheSystemmustensuredataprotectionthought encryption,secureauthentication,androlebased accesscontrols.
NFR-3	Reliability	TheSystemShouldfunctionconsistentlyunder expectedconditionandhandlefailuresgracefully withoutdataloss.
NFR-4	Performance	TheSystemShouldloadallmajorfunctionalities(e.g,Registrationlogin)within2secondsundernormal load.

NFR-5	Availability	TheSystemShouldmaintain99.9%uptimeandbe accessible24/7withminimaldowntimefor mainten
NFR-6	Scalability	TheSystemShouldbeabletohandleincreasing numberofusersandtransectionswithout degradationinperformance.