**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

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| Date | 02 August 2025 |
| Team ID | LTVIP2025TMID36809 |
| Project Name | Traffic Telligence: Advanced Traffic Volume Estimation with Machine Learning |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

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| --- | --- | --- |
| **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 | Password Management | Password reset  Set password |
| FR-4 | Profile update | Edit profile info  Upload profile picture |

**Non-functional Requirements:**

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

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| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | The user interface should be easy to navigate for users of all skill levels |
| NFR-2 | **Security** | All user data should be encrypted in transit and at rest |
| NFR-3 | **Reliability** | The system should have a 99% uptime with automatic recovery |
| NFR-4 | **Performance** | The application should load pages within 2 seconds under normal conditions |
| NFR-5 | **Availability** | The service must be accessible 24/7 except for scheduled maintenance |
| NFR-6 | **Scalability** | The system should support increasing numbers of users |