**User Acceptance Testing**

**(UAT) Template**

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| Date | 24 June 2025 |
| Team ID | LTVIP2025TMID35493 |
| Project Name | TrafficTelligence: Advanced Traffic Volume Estimation with Machine Learning |
| Maximum Marks |  |

**Project Overview:**

**Project Name**: TrafficTelligence

**Project Description:** A real-time traffic analysis and route optimization system that leverages AI to suggest efficient travel routes based on live data, helping reduce congestion and travel time.

**Project Version:** 1.0

**Testing Period:** 25 June 2025 to 27 June 2025

**Testing Scope:**

* User Registration and Login
* Real-time Traffic Dashboard
* Route Optimization Suggestions
* Admin Panel for Monitoring
* Notification System for Traffic Alerts
* USN-1 to USN-11 (referencing backlog: registration, dashboard, predictions, alerts, admin)

**Testing Environment:**

**URL/Location**: http://traffictelligence.live/demo

**Test Cases:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case ID** | **Test Scenario** | **Test Steps** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| TC-001 | User Registration | Open registration → Fill form → Submit | User gets registered successfully | User registered successfully | Pass |
| TC-002 | Login with valid credentials | Enter correct email/password → Click login | Redirected to dashboard | Redirected to dashboard | Pass |

**Bug Tracking:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Bug ID** | **Bug Description** | **Steps to reproduce** | **Severity** | **Status** | **Additional feedback** |
| BG-001 | Dashboard map loads slowly | Login → Open dashboard → Wait for map to load | Medium | In Progress | Consider optimizing API calls |
| BG-002 | No alert on minor congestion | Simulate light traffic → Wait for alert | Low | Open | Threshold setting needed |

**Notes:**

* All critical features were tested including both positive and negative cases.
* Users appreciated the simplicity and responsiveness of the UI.
* Bugs are being tracked, with one medium-priority item in progress.
* Ready for deployment post minor fixes and project manager sign-off.