CS 411 – Brunelle – Team Blue

Traffic Wizard

Prototype Use Cases

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| **Scenario** | **Description** |
| Normal/Optimal Traffic | Driver speeds are within standard speed limit range for respective roads. No known obstructions or congestion. |
| Low Congestion | Slight delays in travel time due to congested traffic – driver speeds are suboptimal from expected limit. May have various causes. |
| Moderate Congestion | Delays in travel time expected due to increased amount of traffic congestion. Usually caused by high volume traffic. |
| High Congestion | Large delays expected for drivers travelling. Usually caused by an obstruction or high volume traffic. |
| Blockage/Obstruction | Traffic is fully or partially blocked by an obstruction. Construction, accidents, and road closures are classified as obstructions. These events cannot easily be predicted. |
| Low Volume | The amount of cars on the road is less than average. Congestion is expected to be light or nonexistent. |
| High Volume | The amount of cars on the road exceeds average. Congestion is expected to be moderate to heavy. This condition can be associated with certain times of day (rush hour). |

\*Scenarios are combined to form specific use cases for Traffic Wizard. A multitude of scenarios for various traffic conditions can be created from these.

Examples:

Normal Traffic 🡪 Low Volume

Normal Traffic 🡪 High Volume

Low Congestion 🡪 Low Volume

Low Congestion 🡪 Blockage/Obstruction 🡪 High Volume

Moderate Congestion 🡪 Blockage/Obstruction 🡪 High Volume

Moderate Congestion 🡪 Blockage/Obstruction 🡪 Low Volume

High Congestion 🡪 Blockage/Obstruction 🡪 Low Volume

High Congestion 🡪 High Volume