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| --- | --- | --- | --- | --- |
| Number | Description | Type | Priority | Comments |
| 1 | Data capture | Functional | 2 | If data can’t be captured, then it will be simulated |
| 2 | Data analyze and adapt | Functional | 3 | Adapt captured data to TLD algorithm |
| 3 | TLD algorithm | Functional | 1 | The algorithm will decide a cycle of traffic lights based on traffic data |
| 4 | Result adapter | Non- Functional | 3 | Adapt the result from the algorithm to the simulation |
| 5 | Simulate results | User | 2 | Display the results on the screen for the user |
| 6 | Efficiency of TLD | Non- Functional | 3 | The algorithm needs to be efficient to a degree |
| 7 | Simulate reality | System | 5 | Use existing road grid to simulate TLD |
| 8 | Results bound to cycle of short time | Non- Functional | 2 | Up to 2 minutes per cycle |
| 9 | Minimalistic simulation | User | 4 | No shiny effects, simple to see |
| 10 | Safe TLD | Non- Functional | 1 | Won’t cause accidents |
| 11 | Security | Non- Functional | 4 | The system will be secure from outside influence |
| 12 | Reliability of TLD results | Non- Functional | 2 | Result should always be at least “good” |
| 13 | Maintainability of TLD | Non- Functional | 4 | The system will be open to changes |

**SRS**