User Stories

User Story1:

As a user, I want to change the speed of cars, buses, motorcycles so that I can simulate real road conditions.

Priority: High

Estimate: 3 hours

Test: change the speed of vehicles

User Story2:

As a user, I want to change the gap of creating vehicles so that I can control the traffic flow.

Priority: Low

Estimate: 2 hours

Test: change the gap of creating vehicles

User Story3:

As a user, I want to set the lasting time of traffic lights so that I can find the difference on flow.

Priority: Medium

Estimate: 2 hours

Test: Ask user to input the lasting time of traffic lights

User Story4:

As a user, I want to refresh the whole system so that I can restart the program.

Priority: Low

Estimate: 1hour

Test: Refresh the program

Users:

-Pause the program

-Refresh the program

-Control lasting time of traffic lights

-Change the speed of vehicles(slow, medium, fast)

-Change the gap of creating vehicles(like every 3, 5, 10 seconds)

System:

-Has 5 roads

-Each road at least 2\*bus length, at most 5\*bus length

- Traffic light only at road start or end

-Length of car = 1, motorbike = 0.5, bus = 3

-Vehicles self-driving

- The simulator consists of a single main window that contains a menu bar and a status bar

- The application has two main modes: 1) city editing, and 2) simulation

- In city edit mode you can: create a new city, edit a city, open a city, save a city

- In city editing mode, the main window displays the city and a set of road shapes and traffic lights that can be selected and placed on the city.