# **User Stories**

User Story 1

I make some modifications for the road, length of the road and car. In the testing, I contribute streets for new city map and run the code.

User Story 2

Since I want to use my code for the city, I don’t want the code of customized city to disappear So, I save all the city with name after modification.

User Story 3

Since I want to refunction previous developed city to perform different simulation, I, again, run the simulation again with different conditions like vehicles and rates. To rewrite city data into database, press open button.

User Story 4

There are changes in vehicles and rates so that I can control how many vehicles should be placed on the road. It’s to click the update vehicle rate button to make vehicles faster or slower.

User Story 5

I want the whole function to stop when I press the stop button while vehicles are moving on the road so that I can terminate running process of simulation. Press stop button and watch all vehicle of termination.

User Story 6

I want to avoid collision with other vehicles based on the distance from ahead vehicles so that I can refunction simulator without any problems. For the testing, I just watch vehicles carefully while running simulation.

## **Developer User Stories**

Developer User Story 1

Developer can change the light and traffic for the users. For the car simulator, there are bus and motorbike. For the testing, abstract the vehicles class and call some methods to move the cars.

Developer User Story 2

Developers can also reduce the traffic rate to avoid collision when the car is coming. There will be no error at all. As for the testing, get the distance from the vehicles and call some methods from vehicles.

Developer User Story 3

Developer make the program to save all of the data in database that can’t evaluate data missing to customers. For the testing, save the all data as a file at main method and load the data to view the map again.

Developer User Story 4

As for the developer, I want to load some of all data that user created so that all data can load and run again after program started. For the testing, at main method, read the data file from the specific path and load the data

# **UML Diagram**

A close up of text on a white surface

Description automatically generated

Github URL

https://github.com/SuShweCinAung/CP2406Assignment1