# USER STORIES

User Story 1:

As a user, I want to see whether there is a possibility to a simulate a car crash.

Priority: Medium

Estimate: 12 hours

Test: change the rate and the way of car crash before testing

User Story 2:

As a college student, I want a history to see what I had been done, it will help me during my experiments.

Priority: Medium

Estimate: 8 hours

Test: all the set-up process done by the user will be record down.

User Story 3:

As a user, I want a different mode like day and night.

Priority: Low

Estimate: 2 hours

Test: change the time and the color according to the mode.

User Story 4:

As a user, I want a function that can remember my setting and put it in setting one, two and so on.

Priority: Medium

Estimate: 18 hours

User Story 5:

As a user, I want a share point that my friend and I can edited it at the same time.

Priority: Medium

Estimate: 24 hours

**User:**

* Possibility to simulate a car crash.
* History to see what the user had been done.
* Different mode like day and night.
* Function that can remember my setting and put it in setting one, two and so on.
* Share point with friend and they can edit it at the same time.

**System:**

* Vehicles move along lanes – during the update cycle the simulator asks all vehicles to move
* A vehicle decides if it needs to move – based the distance to the vehicle in front of it
* At an intersection a vehicle randomly selects if it turns and which way it goes
* A vehicle disappears from the city when it reaches the end of a road on the edge of the city
* Only one vehicle at a time can occupy some section within a lane
* The order in which vehicles are updated on a lane is from the end of the lane backwards
* The application has two main modes: 1) city editing, and 2) simulation
* The menu bar contains the menu items for each mode
* In city edit mode you can: create a new city, edit a city, open a city, save a city
* A road is at least twice the length of a bus (at most five times)
* A lane can contain some number of vehicles limited by its length
* A lane can have a traffic light only at its start or end