Test Plan

**Group-B**

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Table of Contents

[Scenarios: 2](#_Toc413758152)

[Scenario 1: Adding crossroad map on the grid. 2](#_Toc413758153)

[Scenario 2: Removing crossroad map 3](#_Toc413758154)

[Scenario 3: Adjusting number of pedestrians 3](#_Toc413758155)

[Scenario 4: Increase or decrease number of the cars 4](#_Toc413758156)

[Scenario 5: Test for adjusting green light time 4](#_Toc413758157)

# Scenarios:

### Scenario 1: Adding crossroad map on the grid.

#### Description:

This scenario will add crossroad map on a selected grid. The main form has two type of crossroad map, type 1 and type 2. Type 1 will be with pedestrian and Type 2 will be without pedestrian. Tester can select between the two maps. After selecting the map, tester can drag the selected crossroad map and drop it to the desired location on the grid. So if the grid is empty, the map will be added on that location. If not then the tester can override the new selected map over the previous map or drag it to another empty space or cancel process.

#### Purpose:

* The purpose of this test is to add selected crossroad map on the selected grid on the main form.

#### Action:

* Tester selects the desire crossroad map.
* Tester drag it to the selected grid and drop it.

#### Results:

* The crossroad map is added on the selected grid.

#### Other possible scenarios:

* If the grid is already occupied then system will ask tester whether he want to override it or not.
* If tester does not want to override, he/she can choose another empty grid or cancel the process.

### Scenario 2: Removing crossroad map

#### Description:

This scenario will remove a crossroad map from the grid. Testers can simply remove a crossroad map by selecting the desired map, right clicking on it and choose the delete option. The system will show a conformation window where the tester can confirm or cancel the process.

#### Purpose:

The purpose of this test is to remove a crossroad map.

#### Action:

* Tester selects the map which he/she wants to remove.
* Tester right clicks on the selected map and choose delete.
* Tester confirms the process.

#### Results:

* The crossroad map is deleted from the grid.

### Scenario 3: Adjusting number of pedestrians

#### Description:

Tester can adjust the number of pedestrians after selecting the desired road. The system will show a new window where he/her can increase or decrease the number of pedestrian.

#### Purpose:

Testing the traffic simulation with more pedestrians.

#### Action:

* Tester selects the pedestrian map.
* Tester adjusts the number of pedestrians.

#### Results:

The number of pedestrian increases or decreases.

### Scenario 4: Increase or decrease number of the cars

#### Description:

This scenario will increase the number of cars in the simulation. We have four main roads; the tester will increase the traffic on the road independently. A new window will be shown where he/she can adjust the number of cars.

#### Purpose:

Testing the simulation with a heavy traffic.

#### Action:

* Tester selects the desired road.
* Tester increases or decreases the number of cars.

#### Results:

Numbers of cars increases or decreases.

### Scenario 4: Test for adjusting green light time

#### Description:

In this scenario, we are going to test the green light duration. We want to see what happens if the tester changes the setting of the duration of green light time. The GUI allows the user to select time duration. The range of time duration are defined from 1 to 60 seconds.

#### Purpose:

The purpose of this test is to be sure that, if the user changes the settings of traffic light time, so the traffic light will correspond correctly to the changes.

#### Action:

* User increases the time duration of traffic light to 5 seconds.
* User decreases the time duration of traffic light to 2 seconds.

#### Results:

* Traffic light will be green after 5 seconds as it is adjusted in the setting.
* Traffic light will be green after 2 seconds as it is adjusted in the setting.