Use cases names –

Add a crossing (intersection)

Remove a crossing

Start the traffic

Pause the traffic

Add an element (traffic light, sensor)

Remove an element

Add pedestrian crossing

Set the flow –cars, pedestrians

Load

Save

Clear - restart

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## Deliverables

### Must

* Project plan
* User requirement specification (URS)
* Test Plan
* Class diagram design
* GUI design
* Prototype
* User’s manual
* C# Application
  + Two types of crossings possible
  + Place a minimum of 1 and a maximum of 12 crossings in a grid.
  + Adjust the car-streams coming from outside.
  + Real-time traffic movement
  + Adjust the ´green´ time of the traffic-light

* Process report

### Should

* Resizable working space
* Save and load

## Non-Deliverables

### Won’t

* Traffic lights
* Sensor
* Anything hardware relate

User wants to add a crossing.

**Actor**: User

**Precondition**: Program is running

**MSS**:

1. User selects the crossing type

2. User inputs the maximum car flow of the crossing in the input textbox

3. User presses submit button

4. User clicks on the drawing board where he wants to add the crossing (or use drag and drop?)

5. System draws the crossing

6. System updates the internal structure

**Ext:**

3a. If the input is in the wrong format (anything except positive integers), system shows a message and user has to go back to step 2

User wants to remove a crossing

**Actor**: User

**Precondition**: There is at least one crossing on the drawing board

**MSS**:

1. User selects the crossing

2. User presses remove button

3. System removes the crossing from the drawing board

4. System updates the internal structure

The user wants to add an element.

**Actor**: User

**Precondition**: There is at least one crossing on the drawing board

**MSS**:

1. User selects the crossing // Do we have to select the crossing first or?

2. User selects the element

3.The system adds the element to the crossing.

4. System updates the internal structure

The user wants to remove an element.

**Actor**: User

**Precondition**: There is at least one crossing on the drawing board and at least one element placed.

**MSS**:

1. User selects the crossing

2. User selects the element //Can you select the element? We have to decide

3. The system removes the element from the crossing

4. System updates the internal structure