Name: add flow

Goal: Add cars flow for each directions to a crossing.

Actor: User

Pre-condition: At least one crossing on grid.

MSS:

1. User Right clicks the crossing and choose “Crossing Setting”.
2. System shows crossing setting window.
3. User gives number of cars from each direction. (east, west, south, north)
4. Setting will be update for the crossing and the window will be closed after user click “OK”.

Exception:

3.1 The number cars may limited. User cannot input the number above the limited number.

Name: delete flow

Goal: Flow number of cars will be empty. (Number becomes to 0)

Actor: User

Pre-condition: At least one crossing on grid.

MSS:

1. User Right clicks the crossing and choose “Crossing Setting”.
2. System shows crossing setting window.
3. Click “Restore Settings”.
4. The number of flow for each direction will become default ones.
5. Setting will be update for the crossing and the window will be closed after user click “OK”.

Name: alter flow

Goal: Alter cars flow for lane of crossing.

Actor: User

Pre-condition: At least one crossing on grid. Simulation is in running state.

MSS:

1. User Right clicks the crossing and choose “Alter flow”.
2. System shows flow setting window.
3. User alter number of cars for each lane (incoming lane).
4. Setting will be update for the crossing and the window will be closed after user click “OK”.

Exception:

3.1 The number cars may limited. User cannot input the number above the limited number.

3.2 Only incoming lane is available to alter flow.