Trafic Control System
User Requirements Document

Agnes Wadee
Coen Stange
Wen Li
Yongshi Liang

Background and Context

This user requirements document specifies the software requirements for the "Traffic Control System". This application allows traffic to be simulated with the purpose of noticing traffic jams related to traffic lights.

Definitions and abreviations

User	The person who is controlling this application.
System	The implementation of this application.
Component	A visible representation of an object on the screen of the user.
Crossing	A component that can be used in the traffic simulation which has traffic lights.
Traffic light	A component of the crossing which controlls the traffic by displaying colors red, yellow green. For which green the traffic is allowed to go.
Pedestrian	A simulation of a pedestrian crossing a road from the traffic light.
Lane	A component that represent a piece of road.
Cars	A component that represent a car on the road.

Contents

1 Requirements

1.1 General requirements

Code	Requirement
GEN-010	The program is compatible with Windows 7.
GEN-020	The system allows to design a traffic situation.
GEN-020A	The traffic situation can be designed with the following components • Crossroad without pedestrian lane • Crossroad with pedestrian lane • Straight road • Curved road
GEN-020	The amount of traffic comming from each lane can be changed.
GEN-030	From the traffic lights of the crossroads it is possible to change the amount of time that traffic light is geen.
GEN-040	The system allows simulate traffic, and allow to change the simulation speed.
GEN-050	The sytem allows to open and save the traffic situation to a file.
GEN-050A	The sytem doesn't allow to save a simulation, it only saves the traffic situation.

1.2 System requirements

2   User Interface

3   Use cases