Evaluation

**What worked well, and what didn't? How did you do relative to your plan? What changes were the result of improved thinking and what changes were forced upon you?**

The project was started by looking to a model to implement and build a traffic management tool that shows the simulation of vehicles interact with each other on a variety of traffic paradigms. After investigating different models, the team decided to implement this project using Nagel–Schreckenberg model which is based on cellular automaton model. The team planned and started implementing this model by using JTable as cells to illustrate road networks and vehicles’ movements. However, with this approach, virtualizing the road networks and stating the vehicles positions were infeasible. Hence, the team decided to change this approach and move to graphics instead. Graphics provides more features which can be used to virtualize any object on better way. Using this approach, let the team able to draw road networks and vehicles also stating their positions based on X and Y coordinates on a JFrame where X represents the longitude and Y represents the latitude. Such a feature, gives the ability to illustrate the direction, length and width of a road network and vehicles.

The traffic simulation engine was built and constructed based on design and specifications determined by the team at the beginning of the project. All the requirements were taken into consideration during the implementation. However, due to the rigorous time constrain, some of the requirements could not be implemented. Therefore, the team decide to prioritize some requirements over other. As a result, the user don’t have all the options mentioned on the requirements, for example, he or she will not be able to indicate individual behaviors (e.g. normal or reckless) or running emergency situations. In addition, the application will illustrate vehicles positions, new entries and exits and number of vehicles but will not calculate the timing journey and shows it beside these attributes as a user output.

**How did your team worked together?**

The team worked together in a professional way in implementing and documenting project’s functions where all members contributed on all tasks. We achieved this as a team by putting the interests of the team ahead of the individual, treating each other with respect and seeing each other as capable, competent and committed.