Group 5: Mauricio de Souza Hilpert, Elias Heß, Yiyuan Ma, Salaheddine Mabchour

Real-Time Traffic Simulation with Java

Milestone 2: Documentation – Progress Summary

Milestone Goal:

The goal for the second milestone is a Live SUMO connection and the ability to add vehicles and control the traffic lights with visualisation in our own GUI and easy-to-understand code documentation, as well as having an User Guide.

Project Organisation and Challenges:

As we realised that we did not keep each other up-to-date enough we had more short meetings for the second milestone while finding it still hard to coordinate five group members with different time- and work-schedules especially since the time for the second milestone is right during the time of the exam retakes.

We tried to distribute the tasks as evenly as possible, so that everybody had the opportunity to get involved.
Salaheddine did a lot of the coding framework, gave a lot of technical input and kept track of our shared git repository. Yiyuan was responsible for the code documentation and the traffic light control feature.
Mauricios task was it to help code the stress test and the GUI, the user guide draft was Elias duty and I wrote this progress summary, tested the code and helped with the team coordination as well as the traffic light feature and the implementation of our GUI.
As mentioned, it was a challenge to coordinate our whole team. To tackle this problem we started communicating more on different platforms (WhatsApp and Discord) as well as scheduled more meetings even when not everybody could join. We keep everybody in the loop with documenting what we decided during our meetings so that everybody could read what we settled on regarding task distribution and necessary next steps.

Next steps:

For our next steps we started having a weekly meeting on Mondays, so that is going to happen before our presentation in the exercise on Tuesday.
Regarding the third and final Milestone our next steps consist of further streamlining our

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ways of communicating and keeping up our meeting cycle during the days before the Christmas break, where we decided to have week of before starting to work on the final steps again.

Before the break we want to revisit the tasks everybody has done for the project so far and decide on the next steps for each of us.