

Sprint 0 Plan

Goal: Understand how OMNET++, SUMO, and Veins coordinate with each other, and how to run and change simulations.

Total Points: 9 points

User Stories:

1. **As a developer, I want to learn how to simulate traffic, build a network of roads, and generate a scenario map using SUMO so that we can understand the mechanics of the software. (2)**
 - a. Read SUMO documentation, go through the hello world SUMO tutorial (1)
 - b. Use one of the available road traffic scenarios, implement example programs. (1) (Ryan , Alexis, and Harshaan)
2. **As a developer, I want to learn how to use Veins to implement simulation models for vehicular networking. (2)** (Assigned to Alexis, Ryan and Harshaan)
 - a. Read Veins documentation, go through the veins demo scenario (1)
 - b. Use one of the available road traffic scenarios, implement and modify example programs. (1)
3. **As a developer, I want to learn how to coordinate OMNET++, SUMO, and Veins to implement complex traffic simulations using MiXiM, TraCI and other various communication protocols. (5)** (Assigned to Alexis, Ryan and Harshaan)
 - a. Write a custom simulation module (5)