**Meeting Title**: Week 3 Feedback Session  
**Date**: 3 June 2025  
**Time**: 10:00 – 12:00  
**Location**: In-person at Science Hub, Room H2.38

**Attendees**:

* Yanling Chen
* Yibing Guo
* Xinnan Mu
* Zijian Xu

### **Purpose of the Meeting**

To discuss questions regarding the system design with the supervisor, obtain suggestions and feedback on key technical decisions, and refine the system architecture accordingly to improve the quality of the project plan.

### **Group Discussion Summary**

* Topic 1: Necessity of a Data Plan in the Absence of a Traditional Dataset

Even without a conventional dataset, a data plan is still necessary. SUMO serves as a traffic data source during simulation. The team needs to define what traffic information is exchanged with SUMO, whether to store it, how to manage it on the backend,and how many data we want.

* Topic 2: Feasibility of Using Java + Spring Boot with FastAPI for SUMO Control

There was no objection from the instructor regarding the proposed tech stack. However, the emphasis was placed on the clarity of responsibilities and communication between modules. It is acceptable to use FastAPI as a lightweight wrapper to communicate with SUMO via TraCI while the rest of the system is developed in Java with Spring Boot, as long as the interfaces and data flow are clearly documented.

* Topic 3: Whether Frontend Should Include Controls for SUMO Simulation (Start, Pause, Stop)

No, SUMO as a realistic scenarios, alternative is not part of our software,we need to think about how to communicate, what kind of information we need to ask, what kind of information we need to retrieve and look.

* Topic 4: Need for Users to Trigger Special Events via Frontend

The supervisor did not directly confirm whether this is required, but emphasized that identifying the true user is critical. Since the user is not the general public but likely a city traffic manager, it is reasonable to consider allowing the user to simulate special traffic conditions (e.g., accidents, parades) through the UI. The decision should be reflected through clearly written user stories that justify or exclude this feature.

### **Agreed Actions**

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| **Task** | **Responsible Member** | **Due Date** |
| Design login page UI | Xinnan Mu | 5 June 2025 |
| Design operation panel UI | Yibing Guo | 5 June 2025 |
| Design user management UI(admin only): add/remove users | Zijian Xu | 5 June 2025 |
| Design dashboard UI with traffic data visualizations (line/bar/histogram charts) | Yanling Chen | 5 June 2025 |
| Design log page UI (admin only) with user activity logs and linked record view | Zijian Xu | 5 June 2025 |

### **Next Steps**

* Define and finalize the user roles for the system
* Each member completes the functional requirements analysis by next meeting
* Deliver initial version of all UI designs for review by next meeting