**Meeting Title**: Weekly Team Meeting  
**Date**: 24 June 2025  
**Time**: 11am – 12am  
**Location**: E4 In person

**Attendees**:

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

### **Purpose of the Meeting**

The purpose of this meeting was to conduct the mid-term presentation and demo session with the instructor, review the current project progress, and plan the upcoming tasks for Sprint 2. The team also arranged the detailed work schedule for the week of 24–30 June.

### **Group Discussion Summary**

The team first completed the **mid-term check-in** through an online Zoom meeting with the instructor. A presentation slide deck was prepared and delivered, covering the following aspects:

* Project background, objectives, and design philosophy
* Overall system architecture
* Evaluation plans
* Live demo showcase

During the **demo**, the Control page was highlighted, showing completed UI design, core logic interaction, and main functionalities, such as:

* Real-time map rendering via OpenLayers
* Traffic light status display and manual modification

Following the demo, the discussion focused on **Sprint 2 planning** and task distribution:

**1. Back-End Development**

* Develop the user management module (user registration, login, and role management)
* Implement and test the login API and integrate JWT-based authentication

**2. Front-End Development**

* Develop the login page UI
* Connect the login page with backend services and test user authentication logic

**3. AI Module**

* Start data preparation for traffic control algorithms
* Plan the dataset structure and define traffic feature extraction strategy

**4. SUMO Module**

* Configure and integrate **special traffic events** into the SUMO simulation (e.g., accidents or roadblocks)
* Establish the data pipeline for the backend to respond to these events in real time

*Note*: Back-end and SUMO leads need to coordinate and prepare for next week's task distribution regarding event-triggered signal logic integration.

**5. UI and Requirement Design**

* Continue wireframe/UI design for all remaining pages
* Finalize the UI structure to enable full front-end development in the coming week

**6. Instructor Follow-up**

* Confirm with the instructor the **recommended map size and scope** for the simulation system
  + Reason: Some complex intersections lack proper junction IDs or consistent signal properties (e.g., interchanges or compound intersections), making signal control logic harder to define

### **Agreed Actions**

|  |  |  |
| --- | --- | --- |
| **Task** | **Responsible Member** | **Due Date** |
| Complete login feature (front + back) | Zijian Xu, Xinnan Mu | 29 June 2025 |
| Finalize UI design for all pages | Yibing Guo | 29 June 2025 |
| Prepare AI dataset and define feature plan  Configure SUMO for special traffic event simulation | Zijian Xu, Yibing Guo  Yanling Chen | 29 June 2025  29 June 2025 |

### **Next Steps**

* Split development tasks according to Sprint 2 plan
* Complete user login module and front-end integration
* Begin AI and SUMO technical groundwork
* Finalize design assets and front-end planning for implementation next week