



Team/ Instructor VLOG #4

Team Apollo

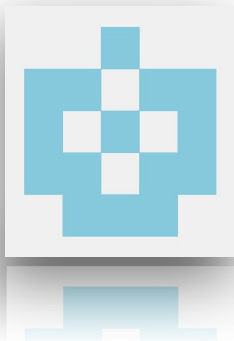
Kecheng Yu

Yilin Ren

Zhuo Chen

Ziwen Tan

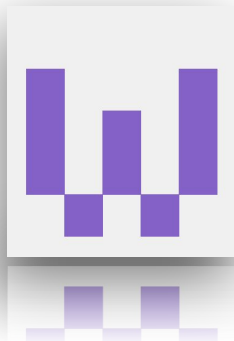
Team member introductions



Kecheng Yu
Backend developer



Zhuo Chen
Frontend developer



Ziwen Tan
Backend developer



Yilin Ren
Frontend developer
Team Scrum management



Project Activities

Oct 21st: Group meeting all member attended (made decision)

Nov 24th: Met with mentor Kecheng, Ziwen, Zhuo and Yilin (discussed about vehicle detection)

Dec 31th: Yolo V5 modification and realization done by Kecheng and Zhuo

 Jan 7th: Backend management system V1.0 signed off By Yilin 🎉

Jan 15th: Yolo V5 deploy on Raspberry Pi 4B by Kecheng, Zhuo and Yilin

AI detection V1.0 signed off By kecheng and Zhuo 🎉

Jan 22th: A*(A star) path finding algorithm implemented By Ziwen 🙌



Status description

 Green

Milestone 2.1 in progress:

Done

- APIs for frontend and AI solution
- AI solution deployment on SBC
- Hook-up the AI application with backend
- Client side application design and initial implementation



Project issues

Currently we successfully ran YOLO on SBC, however we found that every camera has a SBC is not budget friendly. Compare with running YOLO on a high performance computer, have bunch of camera with SBC is more expensive.



Project changes

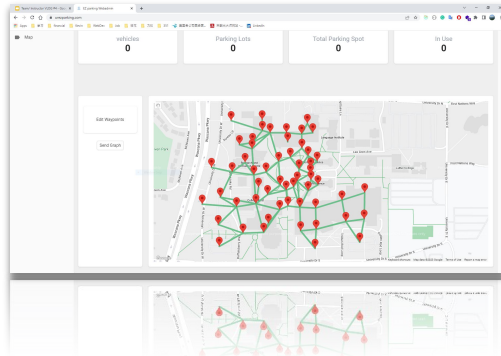
Roles and responsibilities:

- Zhuo: frontend developer
- Kecheng : backend developer

Project/technology update

Frontend

- Backend end management system V1.0 signed off
- Start implementing client side app



Backend

- A-star algorithm implementation





Next up

We will:

- Client side APIs built
- Client side App feature page implementation and routing
- Myadmin side upgrade to V2.0



Team reflection/retrospective

In good status

- Everything is on track.
- Both the AI and front-end sections were highly completed, completing most of the tasks.
- The main question is how to integrate AI and web frameworks. In addition, we need to consider the cost of equipment to run the AI.