

YYDS Project Proposal

Team Member:

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Grand Vision

Our team aims to design practical and meaningful programs that can be utilized in the real world. Additionally, we are excited to participate in the EdgeX hackathon competition to showcase our passion and dedication. We are committed to investing our time and energy into our work while collaborating with relevant open-source projects, standards groups, and industry alliances. This ensures consistency and interoperability across the Internet of Things (IoT) ecosystem. Furthermore, we are eager to learn the Go programming language and integrate all these techniques through the Matter protocol.

Project Name

TT (TT is more than a Tracker)

Project Goal

TT is an open-source tracking network that provides IoT devices with their relative location, eliminating the need for high power consumption or satellite signals. The project is divided into three distinct phases.

In phase one, which occurs prior to the competition, our main objective is to implement the distance measurement functionality between IoT devices through our code.

Following the competition, but before the conclusion of the summer semester, phase two will involve the development of an API that enables other applications to utilize our project. For instance, we will try our best to create an open-source version of AirTag for short-distance tracking or a smart light controller.

Phase three will commence after the summer semester, during which we intend to dedicate significant effort to the project. We firmly believe in the usefulness and significance of this endeavor, anticipating a positive feedback loop of continuous improvement as individuals from the community come forward to contribute and enhance the project.

Timeline

	Week 1	Week 2	Week 3
Everyone	Setup environment for Golang, and study for Golang	Setup environment for Docker, and study for Docker, making the first draft of code	Keep coding and create the GitHub repo for our project.
	Week 4	Week 5	Week 6
Everyone	keep coding and do the frontend work for the project	Final revision and prepare for presentation.	Roadshow and presentation
	Week 7	Week 8	Week 9
Everyone	Announcement of winners	Develop API or other applications	Develop API or other applications
	Week 10	Week 11	Week 12
Everyone	Documenting the API	Achieve the feature of smart light controller and prepare for the RCOS final presentation	RCOS final presentation and do some concluding work.