INTERNSHIP WEEKLY REPORT
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Introduction

This week I completed the previous week's task of Device Discovery. Since I was not able to do it in C++ I tried Python and succeeded. Finally the device first checks the availability of other devices before sharing data. In this way there is no loss in data. Next task given is to learn about Edge Computing and how to interact with it with MQTT. Edge Computing is basically a cloud which is small but also near the plant hence it minimizes latency. Hence decisions are faster.

TASKS

- We already worked on device discovery, finally it is completed.
- To learn about Edge Computing.
- MQTT is one of the best messaging services for IOT devices.
- Nowadays these IOT devices interact a lot with themselves and previous data to make decisions on their future actions in the real environment.
- But they cannot store a huge amount of data, and they also don't have excellent processing power.
- So these are done by data stored in the Clouds.
- IOT devices share data with the cloud and hence they make decisions according to cloud processing.
- But this causes delay known as latency.

- To minimize this Edge Computing started where small cloud server are there near the devices for faster results.
- So in order to interact I am trying to send messages to Edge server with the help of MQTT messaging service.

Conclusion

In order to minimize latency on decisions Edge Computing is a wonderful solution. In order to interact with it MQTT is a good service to use.