SAMSUNG R&D DELHI

INTERNSHIP WEEKLY REPORT

WEEK SEVEN

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Introduction

This week there were new taks. The first task was to learn about Edge Computing and how to send data to the Edge server with MQTT. Edge server is similar to a cloud only it is located closer to minimize latency. Next task was to send and receive data with wifi connected devices with the help of MQTT.

TASKS

- Edge Computing is the new innovation in cloud computing.
- In this the cloud server is located near the device and is called edge server.
- To send data to this server with the help of MQTT we have to just publish data to a topic from the device.
- And then the server subscribes to that topic to get the data.
- This is similar to codes we have been writing earlier but instead of using localhost as server we can use an online broker.
- With the help of Edge Computing we can minimize latency bandwidth cost.
- The next task was to transmit data over wifi using MQTT.
- In this all the devices connected with wifi should be able to communicate with all other devices using MQTT.
- In this also we can use an online server. With the help of wifi we can use their mac address to identify the devices.

- Also we can check the connectivity status easily if they are connected or not.
- This is also a good method as nowadays all IOT devices are connected to the wifi in homes and offices.

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. Using wifi is also interesting as all devices are connected to Wifi nowadays.