

Daily Stand Up - 4

Date: 08/30/2023

Attendees: Michael , Zipporah, Khaled

Start time: 1:00pm

End time: 1:30pm

Project Name: FIU IoT Device Inventory Management

Student 1: Zipporah Thomas

- What was done since the last scrum meeting?
 - a. I did research on the different type of open source IoT Device Inventory Management tools that are offered

TheThingsNetwork (TTN):

TTN is a community-driven IoT platform that includes device management capabilities. It provides a device registry for managing IoT devices and integrates with LoRaWAN networks. TTN is designed for low-power, long-range IoT devices.

Eclipse IoT:

Eclipse IoT is an open-source community that offers a range of IoT tools and frameworks. Eclipse Hono, in particular, provides device registry and device connectivity services for IoT solutions.

Kaa IoT Platform: Kaa is an open-source IoT platform for device management and data collection. It offers features for device onboarding, provisioning, and monitoring.

ThingsBoard:

ThingsBoard is an open-source IoT platform that includes device management features. It provides device provisioning, monitoring, and rule engine capabilities.

FIWARE:

FIWARE is an open-source platform for building smart solutions.

It includes IoT device management components for device registration, context management, and data processing.

Zetta: Zetta is an open-source IoT platform that focuses on creating connected devices and APIs. It allows you to build and manage IoT devices with RESTful APIs.

DeviceHive:

DeviceHive is an open-source IoT data platform with device management features. It offers device registration, monitoring, and real-time data processing capabilities.

Freeboard:

Freeboard is an open-source IoT dashboard for device monitoring and visualization.

While it's primarily a dashboard tool, it can be integrated with other platforms for device management.

Home Assistant:

Home Assistant is an open-source home automation platform that can be extended for IoT device management.

It's particularly useful for managing smart home devices.

OpenHAB:

OpenHAB is an open-source home automation platform with IoT device management capabilities. It supports various protocols and devices for home automation.

OpenIoT:

OpenIoT is an open-source middleware platform for IoT.

It provides features for device management, data processing, and event handling.

Thingier.io:

Thingier.io is an open-source IoT platform that includes device management features. It offers device provisioning, real-time data monitoring, and remote device control.

- What is planned to be done until the next scrum meeting?
 - a. The team will pick 3 -5 Open-source tools that fit with the goal of the project.
 - b. I will do deeper research into each of those tools, we will make our decision on Friday for which open source tool we will be going forward with.
- What are the hurdles?
 - a. Deciding which open-source tool aligns better with our project

Student 2:

- What was done since the last scrum meeting?
 - a. Investigated the architect of phone based environment, where the phone would connect to a flask endpoint to send asset information to. This can be done using a containerized environment where the python would use SQLAlchemy to communicate with the SQL server. NFC or camera possibilities are both feasible.
- What is planned to be done until the next scrum meeting?
 - a. Investigate the architect and feasibility of a raspberry pi environment where either a nfc reader would be attached or a camera would be attached. Dependent on the recommendation of Khaled.
- What are the hurdles?
 - a. No hurdles expected

Khaled Khashashneh

- What was done since the last scrum meeting?
 - a. Started doing the research on the Qr Codes
- What is planned to be done until the next scrum meeting?
 - a. Continue doing the research on the Qr codes
- What are the hurdles?
 - a. No hurdles