



Master Thesis Project

» Sensor Data Framework «

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Overview

Develop an online platform for the collection of distributed sensor data.

Target Group

Student interested in software engineering and software architecture.

Backend requirements

- ▶ Read sensor output received in MQTT format
- ▶ Store in a time-series database
- ▶ Pre-process the data: smoothing, outlier removal, scaling
- ▶ Implement simple statistic evaluation methods, e.g. correlations
- ▶ Programming language preferably Python or Java

Frontend requirements

- ▶ Create a basic GUI for data visualisation
- ▶ Retrieve and visualise the sensor data including its statistic analysis
- ▶ e.g. with libraries such as D3.js

... more details upon request!

Contact



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