Project plan
Allocated time: 6th Oct - 27th Nov (7 weeks)
Final deadline: 7th Dec 12:00

Project idea
- Weather app: Time, Temperature, Precipitation, Atmospheric pressure, Light, and Wind (strength and direction). Simulate the data, place it in a database, sort it, use current data for predictions of future data, and display the information as weather forecasts in a webpage.

Sprints
1. Planning and prototyping. (23rd Oct)
    a. Class/UML diagram
    b. Wireframe
    c. Prototype with wireless communication between nodes
2. MVP - Minimum Viable Product (13th Nov)
    a. Application is functional and uses correct data
    b. Works as intended (no bugs)
    c. The application fulfills the fundamental checks for the project
3. Polishing, and completing the deliverables (27th Nov)
    a. Finishing all reports
    b. Recording and editing the presentation
    c. Hosting and running the application

Goals
- Grades A or B (covering the fundamental checks and some of the excellence checks)
- Have a web page for front-end with web server for rendering
- Use database (SQL) for persistence of data
- Use algorithms and statistics to sort and predict data
- Use encryption of data to improve security

Group meetings
- Tuesdays, 13:00-14:00 on Discord (digital)
    - Stand-up updates
    - Writing reports
- Thursdays, 12:15-14:00 on campus
    - Coding

Application
- Build project with Gradle
- Python to simulate data
- HTML, CSS and JavaScript for web page
- Java for web server, database, and data manipulation
- IntelliJ as IDE
- Persistent check-style: Same as Google, except 4 spaces per indent
- MQTT protocol for server