

Program Management Report

Plan and Go:

Visual Public Transportation Analysis Tool

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Project Management Practices

Our main communication channel is WhatsApp.

Our work/code-related communication is Slack.

We will use Scrum to implement the project.

We will use Trello to manage the backlog. We will have the following columns:

- Not implemented - tasks that can't be achieved
- Project Backlog - tasks that are due but not prioritised for this sprint.
- Sprint backlog - tasks that have been prioritised as necessary for this sprint
- Doing - tasks that are in progress
- To be documented - tasks that need to be documented before they can be reviewed
- Review - completed tasks
- Done (four columns for four sprints) - completed tasks that have been demonstrated and approved for each sprint

We will use GitLab to store our source code and documentation.

Project Management Decisions

The project manager is Florence Afolabi.

Schedule

Sprints will be every two weeks:

Sprint 1: until 20th November

Sprint 2: until 3rd December

Sprint 3: until 18th December

Sprint 4: until 7th January

We schedule mandatory meetings every Wednesday, after the stand-up meeting.

We also have additional meetings on Mondays from 10:00 to 12:00 and on Thursdays from 10:00 to 12:00, scheduled as required.

Scope

We will create a web application using Vue.js to visualize the data. We will connect it to an MQTT broker using Java and Websockets.

The aim of our product is to visualize data points on a map using the Google Maps API. We will use mock, randomly generated data to create these data points. We will also use APIs to filter these randomly generated coordinates to create realistic data for analysis.

Cost

We are a team of six university student developers. Each member of the team will work approximately 15 hours per week for 9 weeks.

The hourly rate is 200kr, the total salary for each student will be $15 \times 200 \times 9 = 27000\text{kr}$

Total salary cost for six student developer will be $27000 \times 6 = 162000\text{kr}$

We assume facilities costs are covered by the University and each developer covers the costs of their own hardware. We will also be using free and open-source technology for our project. Therefore, there are no additional costs here.

Risks

Risk	How we will mitigate them
Unclear and incomplete specification	We will clarify any unclear requirements with the Product Owners and make assumptions when necessary.
Running behind schedule	We will have a sprint schedule that we will review and adjust as needed. We will also continually confirm with the Product Owners about our rate of progress.
Changing requirements	We will develop according to the requirements and ensure we develop in a modular way, so that features can be easily updated and extended.