

Mandatory assignment 2 (Group 58)

1. We chose "Luftkvalitet i storbyene" (Case 4). There are several reasons to this choice, but the most important was the aspect of testability.

With the lack of experience in software engineering (in groups), we wanted to play it safe and chose a convenient case that was simple enough to implement, but also open to change and extensions.

In addition, we wanted an interesting case that felt rewarding to work on.

With that being said, case 4 seemed like the best option due to its simplicity and accessibility for testing as well as the possibility for extensions. We hope to learn from this experience so that other cases do not scare us that easily in the future.

2. The functional requirements, at the time of writing, include:
 - A top list over cities sorted by air quality.
 - The ability to compare two given locations on the map.
 - Ability to favourite.
 - Frequently viewed locations in order to get quicker access to them.
 - Ability to filter locations, for instance, make locations with higher air quality than a given value invisible on the map.
 - Replacing the menu with a few buttons on the map.
 - Asks user for permission to track current location.

The non-functional requirements are:

- Up-to-date data fetched from API.
- Should not take longer than 7 seconds to do a given task (in our user testing).
- Reduce clicks and encourage a minimalistic interface.

Use case:

- As a user, I want to know my current location's air quality today as well as a forecast so I can get an idea of next week's air quality.
- As a user with asthma, I would like to receive a warning if the air quality is too poor based on a preset value. In addition, a function that finds a given location would be nice. .

- As a user, I would like quicker access to data for locations I am interested in. Also, I would like to compare two locations' air quality.
- As a paranoid user, I would like to disable location tracking at will in order to preserve confidentiality.
- As a user, I want a map with a visual overlay which displays the condition of the air quality in a given zone at a given time. Functions like moving around, zooming in and out on the map is a must.
- As a sporty user, I would like it if the app could help me choose the best circumstances to go training depending on the air quality. In addition, it should warn me if the air quality is expected to go down a given value.
- As an easily agitated user, I would like the app to receive feedback in case the app crashes or some abnormalities occur.

Disclaimer! Some of these requirements may or may not change in the future.

3. Project plan:

- Meeting minimum one day a week.
- Conduct interviews and collect data by the end of March.
- Present wireframes and agree on an initial interface.
- Construct a primitive interface by April 10th.
- Learn to **properly** use Git.
- Testing of usability by April 20th.
- Finish data modelling after parsing by March 18th.
- Hopefully finish project by 01.05.2019
- Do at least something, no matter how small, before next meet up.

4. Could have started earlier. There is good progress at the moment.

- We meet minimum one time a week on Thursday. Lately, we have been meeting at least two times a week. We haven't had any standup meetings yet. During our meetings we usually just sit down and discuss features of the app and work on the app together.
- Every member is responsible for a set of functionalities to implement. To begin on these functionalities, however, it is first necessary to design and implement the basic interface.
- We roughly used some of the methods in Scrum, like stand-up meetings etc.

5. We haven't been very organised or structured in our work or in the meetings we have had so far. We might benefit from taking a more methodical approach. We should probably set up more of an agenda of what we want to do in the meetings beforehand, and also be clearer in what we should be working on until the next meeting.
6. Teamavtale:
 - a. We expect to have a meeting at least once weekly, in addition to standups and eventually retrospectives.
 - b. In addition to the meetings, every member use time appropriate to their skill and the tasks handed to them.
 - c. Do not be afraid to ask for help. The true goal is to get wise, we can get wise together. Get to know each other's' weaknesses and strengths so that we can utilize the latter to its fullest potential.
 - d. I will personally talk to the person(s) involved and attempt to solve the issue from there on. In case of any disagreement, democracy will be the solution because we are an odd number. Bavo is in charge to organize a blind voting if people disagree as well as asking rather dumb questions in an attempt to remove consensus.