

Team Reflection - Week 5

Team Abacus

15 October 2021

1. Customer value & scope

This was a busy sprint in many aspects. We had a lot to finish up and finished everything but one card which is again and forward to next week because it might not even be possible.

We made a working statistics fragment in the app which can display the different values for the stations in a selected range of time. This shows a lot of value to the product owner. But also the startpage fragment has gotten a big boost this week and is now done which was partly the product owners priority , to make the app more easily interactable.

This week also implemented further functionality in the map fragment which is now done. It now displays markers for the stations in different colors depending on the values of the sensors of that station. Also pop ups appear when markers are clicked displaying further data.

The API was also extended to handle averages of sensor values. Also requesting different times was added. Mostly to comply with the statistical frontend parts functionality. A callback listener function was also added to make frontend work easier and more reliable when network bandwidth might be slow.

App is definitely coming together well now so next week we'll focus on finishing up the statistical fragment and the app shall be done.

2. Social contract and effort

As usual we had three meetings this week: The longer meeting on monday, a scrum on wednesday, and a summary meeting on friday. As decided we use shirt sizes to estimate the work required for To-Dos, in the range XS, S, S+, M, L, XL - corresponding to 0.25, 0.5, 0.75, 1, 1.5 and 2 people's worth of workload.

KPIs: Like decided last week, we use the following three KPIs: Amount of points completed, the amount of remaining points in the week's To-Do in comparison to the points completed, and the number of completed user stories. This week we completed 7.75 points total. We have 0.25 points remaining in this week's To-Dos, and we moved five user stories from the Sprint Backlog to Done Backlog.

3. Design decisions and product structure

We restructured and redesigned the startFragment to look more user friendly by adding images and increasing the text sizes. We also made a custom spinner since the previous one was too plain and did not fit in. In addition to these changes the app now has an icon and a splash screen when starting the app.

More work was done on the map panel this sprint. We added the function to click on the station markers to display their stats. We also added so the markers get different colors depending on how healthy the values are. We also implemented the functionality to display the users current position on the map.

We also restructured the statistikFragment, since many of the old functions used a lot of similar code to draw and build the chart. For example we split the old function updateChart into several smaller help methods. We divided the chart drawing methods into two methods, one which draws week values (values for 7 days) and day values (value for 24 hours). Since they have a notably different number of chart values to draw and we reuse less of the code, this will make the code run faster. We have implemented one method just for updating the API that just calls on OverViewModel and tells it to fetch new data.

We have also implemented a callback, which receives updates in the API from overViewmodel.

4. Application of Scrum

Johnny was the scrum master this week, Kevin was the product owner and Erik was the secretary. We were able to finish almost all that was planned this week and had a meeting on Wednesday where we discussed problems around this sprint, and that the persons working on statistics could get help to implement as there were problems connected to the API.

We worked a lot together in groups this week and talked open about problems to get help when some got stuck. We updated the Trello board during the week as todos got done. The t-shirt sizes we went with weren't always as correct this week and we adjusted the size of a few of them on Friday.