

Team reflections

Customer Value and Scope

- **the chosen scope of the application under development including the priority of features and for whom you are creating value**

Unchanged.

- **the success criteria for the team in terms of what you want to achieve within the project (this can include the application, but also your learning outcomes, your teamwork, or your effort)**

Unchanged.

- **your user stories in terms of using a standard pattern, acceptance criteria, task breakdown and effort estimation and how this influenced the way you worked and created value**

Same as last week. We realized that we have been too generous with the assignment of effort points on tasks, resulting in the expected workload being bigger than the actual workload. In our midweek meeting we had to add new user stories to the sprint backlog. A contributing factor is our 5-point effort point system, where a user story can't get assigned less than one full day's effort. So a user story that is worth 0.5 points gets rounded up to 1 and 3,5 to 4. In just two stories the team has 1 extra day's worth of points.

- **your acceptance tests, such as how they were performed, with whom, and which value they provided for you and the other stakeholders**

We now use pull requests where the whole group gets a chance to review and accept or request changes.

- **the three KPIs (key performance indicators) you use for monitoring your progress and how you use them to improve your process**

Unchanged.

Social Contract and Effort

- **your social contract i.e., the rules that define how you work together as a team, how it influenced your work, and how it evolved during the project (this means, of course, you should create one in the first week and continuously update it when the need arrives)**

We continue to update the social contract as needed while working on the project. This week there has been no need for any updates. We do use the social contract while working together, mostly how we are working together and it has been working well so far following the guidelines and updating as needed. We hope that it keeps working well like it has so far and we intend to keep following our social contract and update if needed.

- **the time you have spent on the course and how it relates to what you delivered (so keep track of your hours so you can describe the current situation)**

This week we continued to spend less time on meetings and more time on coding than the first couple of weeks. We each estimated how many hours we could spend on the project in the beginning of the week and divided our tasks accordingly. Our effort estimation was better than last time but we still have a long way to go until we're spot on for every task and user story. We estimated some group members' tasks quite accurately. Though some sub teams tasks were overestimated because tasks were related to each other and therefore went quicker than expected. Next week we hope to be even better at effort estimation so that each team member can take on tasks that match their effort points. But overall we are happy with how we estimated our points during this sprint.

Design decisions and product structure

- **how your design decisions (e.g., choice of APIs, architecture patterns, behaviour) support customer value**

This week one of our tasks was to create a new mockup. This is because we have decided to not use an integrated map (at least not right now), but we still want the app to be more beautiful and user friendly for the end user. Right now the output is very plain and not very inspiring. Next week we hope to come closer to the mockup and create a prettier and more user friendly interface.

We have also started to implement some functions that produce relatable output that is more fun for the user, and therefore of more value to the user of the website. For example we now have a carbon equivalence so users can see for example how many plastic bags their trip costs (approximately). This makes the app's other output easier to understand than just writing CO2 emissions in grams, especially for people who are not that up to date with how much (for example) 1kg CO2 is in relation to other things. So this makes the app more user friendly and understandable.

- **which technical documentation you use and why (e.g. use cases, interaction diagrams, class diagrams, domain models or component diagrams, text documents)**

Last week we wrote: "We plan on using a sprint burndown chart and we have assigned the scrum master to collect the data for this each meeting. The plan is to evaluate how this is going so we can hopefully do this throughout the sprint."

This week the scrum master did this, but we are not done with the sprint and ready to fully evaluate this and how it went until Monday. But the scrum master says that mainly the tasks have been overestimated because many user stories and tasks go into each other, so the estimation points add up to a larger sum than originally thought.

- **how you use and update your documentation throughout the sprints**

Same as last week. We continuously update the necessary documentation at the weekly meetings. We have a secretary who keeps note of each meeting, and also we make sure to update the documents as needed. We keep the social contract, definitions of done etc. in mind and anyone can look at the social contract when needed or unsure of something.

- **how you ensure code quality and enforce coding standards**

The group has decided to use Github for code version control. The code quality is ensured that changes in the main files need to be checked by all team members before merging is done. This is done using branches.

We previously decided some new standards for coding and code quality. For example, we decided to use "camel case" for method and variable names. We also decided not to have too long methods and to continuously comment on the code. We also discussed the importance of good variable names and said that anyone could ask the group for help with naming variables.

In the future we hope to keep these rules in mind when coding and also that everyone asks for all group members permission before pushing something to main. We thought this worked well during this sprint, everyone asked before pushing to main and then waited for everyone's approval.

Application of Scrum

- **the roles you have used within the team and their impact on your work**

We still have two testers, a product owner and a Scrum Master. We as a team work a lot together and collectively decide most things, but the roles make sure we are on the right track and always have testing in mind.

- **the agile practices you have used and their impact on your work**

We are currently doing iterative development, having regular meetings (3 times a week) and using professional tools (Trello for managing epics and user stories). Previously we mentioned that we wanted a more dynamic trello board, this is something that we have been working on a little bit in this sprint but it's something that we will need to continue working on, which is done by more actively creating tasks and being more aware of moving tasks and user stories on the trello board as they progress.

- **the sprint review and how it relates to your scope and customer value (Did you have a PO, if yes, who?, if no, how did you carry out the review? Did the review result in a re-prioritisation of user stories? How did the reviews relate to your DoD? Did the feedback change your way of working?)**

We have a PO, Max Norén. We have decided to only have one PO during the entire project, mostly because we have come up with more role assignments. We did the sprint review for the previous week on Monday and we will do a sprint review for this week next Monday. We talked about what we liked about how the sprint was carried out, what we did not like and wanted to improve. Since we were mostly happy with how the sprint went the week before we mostly went about the same this week.

- **best practices for learning and using new tools and technologies (IDEs, version control, scrum boards etc.; do not only describe which tools you used but focus on how you developed the expertise to use them)**

Unchanged.

- **relation to literature and guest lectures (how do your reflections relate to what others have to say?**

We keep up communication with our supervisor through a separate Discord channel. He gives us tips and feedback that we reflect upon and take into consideration when continuing working.