

Week 1 Reflection

I want to learn and have a good understanding of scrum, sprints, and other important concepts of agile development. During the exercise session on Wednesday, it felt hard to both concentrate on keeping to the allotted time, as well as making sure we really focused on each step, the planning, execution and reflection. For example, instead of truly reflecting on the sprints, we focused more on planning the next sprint. Instead of the 3 sprints feeling like an iterative process, it felt a bit more like 1 long extended sprint. I am also really interested in seeing how using this style of development affects and benefits the software that I create.

I am excited about working with the team to create something interesting and creative. I hope to be able to contribute to the group as much and as best I can. I want to be able to create an environment in our group where everyone feels like their voices can be heard and they don't feel afraid to make suggestions. Group dynamic can really affect how well a project is carried out and so I hope to do my part in making it as successful as possible.

Week 2 Reflection

Week 2 was really about establishing ourselves as a team. We struggled a lot with members both leaving and joining our group which felt a bit stressful to not know how many members we would end up with, and ultimately how much we would be able to accomplish with the people that did choose to stay in the course. Despite those problems we were able to start on our project. I think one thing that I found interesting was the focus on the value that our product is giving the customer. It feels obvious but it is new to me to think of the value proposition in every step of the development process.

We also started creating out project backlog and I had initially thought the vertical slicing would be a lot more challenging as it is definitely a new way of thinking for me. In most of my other programming classes I have thought only in terms of methods, functions, and the entire code being like layers. However this understanding of vertical slices actually came quite naturally to our team and we managed to create user stories that give value in themselves. While each slice builds on the functionality of the other, each slice has value in itself.

For next week my focus is trying to continue to create a good structure in our sprints, and in the team in general. As well as of course start with the coding of our project.

Week 3 Reflection

Week 3 went a lot less smoothly than we had originally planned and maybe hoped for. We had divided the project into about 4 epics that we felt covered the entirety of the functionality that we would like to implement in our app. We decided to focus on the user stories that related to the 1st epic which was about creating a basic foundation of the app, implementing the map, creating a database and connecting the database to the frontend. In the end we only ended up finishing less than a half of the tasks we had originally planned to finish. We overestimated how long "setting up" would take as well as how long it would take us to begin to understand all the tools that we had chosen to use (in this case javascript, react native, Expo, MySQL). At the beginning of the sprint we also did not spend enough time with poker planning and really evaluating the amount of time/effort each task would take. We had a loose understanding of "oh maybe this task will take the more time

than this task”. In the next sprint we hope to spend more time with poker planning. We will also try to estimate the effort each task will take not based on our wishful thinking but more based in actual reality. By that I mean the amount of knowledge we have on the topic (how much will we have to research) and the amount of time we have in the week to work on the project.

I was also the scrum master this week which gave me the responsibility of leading the sprint and ensuring good communication and teamwork in the group. For a first time I think I did an alright job however I think there are definitely areas of improvement. I think I had to remind myself that it doesn't matter if just I have managed to finish the tasks that I was supposed to finish, if the rest of the team is stuck on something or needs help. I think I should also have established more and better communication throughout the week and not just on the days we decided to have a meeting. I think the team would definitely benefit from small, daily updates so we know where everyone is at with their tasks. If someone in the group is struggling with a task, it is better to know as quickly as possible and not wait till the sprint is almost finished.

Ultimately for the next sprint I feel it is important to do a better job estimating our own capabilities as well as establishing better communication amongst the group.

Week 4 Reflection

In week 4 our sprint went a lot better than in week 3. We made lots of improvements to the structure and format of our sprint starting with the first meeting we had at the beginning of the week. In our discussion with the supervisor we gained a better understanding of the meaning of value. It was very helpful in understanding that even though we may think we have not done enough or progressed enough, the tasks we have completed can be valuable depending on how they are sliced. If you slice tasks strategically each one can give value to the product owner and ultimately the customer as well. We realised that in order for our tasks to deliver more value we would have to rewrite them and give them a greater focus on the value that they deliver to the project once they are completed.

This definitely helped in our sprint going smoother and ultimately being more effective. We divided the tasks even more. For example, we changed the task “get markers to show up on map”, we sliced it further, “have one hard-coded marker appear on the map” and then “have one marker appear on the map from information from the database” and then “have multiple markers appear on the map from information in the database”.

For myself thinking in terms of incremental value has had a really great impact in my own understanding of agile. In my previous experience of programming and creating projects it has just been about trying to get something done or something to work, a kind of brute-force programming style. However this format of agile development allows for a lot less stressful programming style. As a fairly new programmer, creating something like this project felt extremely over-whelming but it has really helped being able to focus on one small slice at a time whilst also being able to see a progression. For example if we had just spent 3 weeks focusing on the database we would not have really had anything to show for it. Our product may have some kind of value to us but not to our customer.

This week we managed to accomplish many more of our tasks. We were also better at communicating and updating each other on the progress throughout the week. We also did the poker planning which helped in our ability to plan effectively. For the next week I hope to continue to progress, and follow the sprint structure even better.

Week 5 Reflection

In sprint 5, we focused on finishing all the user stories that were connected to epic one. This week I was the product owner which meant I had to keep more of an eye on the trello board, the user stories, and on the value each of our tasks was going to eventually give the customer. Playing at the product owner gave me the opportunity to take a step back and view the project from a different perspective, from the customer but also from the eventual users of the product. This week we accomplished quite a lot in terms of value. After the first sprint, the team realised that our core functionality (and the main thing we wanted to ensure we were able to implement) was for our bathroom markers from our database to appear on the map in the app. In this sprint, we were finally able to implement this functionality in our project. Now instead of having hard-coded marker locations showing on the map, all our markers come from the coordinates that are stored in our database. As a product owner I was very happy with this development, as this means the project is one step closer to being able to implement other information that pertains to each bathroom location, which is also stored in the database. It also means that it will be simpler to update the information stored in the database, no longer having to deal with the source code in order to change the marker data.

We didn't have as much or as frequent communication this week since our schedules were more varied. However we did still update each other on what we were doing, writing on our discord and sending screenshots of updates in the app which still allowed for some idea of what everyone in the group was working on. This week we also slightly overestimated the effort needed for each task which meant that we ran out of tasks to do and could have probably assigned more tasks during the beginning of the sprint. I think for myself this is one of the hardest things about the sprint structure. It feels hard to get the effort estimation correct. You have to know everyone in the team pretty well to be able to understand how each person works and how much they will be able to get down as well as understanding yourself. Each week has been a bit of a surprise in terms of what tasks took more or less time. However I do notice improvements in our effort estimation skills. I definitely see how you can get really spot on with the effort estimation and knowing how many tasks the team can potentially accomplish during the sprint.