Team reflection week 7 - Punch Card

Do this survey weekly to contribute to teachers as well as own evaluation:
https://forms.gle/NP8V6DU8aTofgF7w7
The following team reflection will regard Social Contract and Effort, Application of Scrum, and Design decisions and product structure. Each of the sections will answer all of the bullet points mentioned in the PM for the Team Reflection. The reflection will be made by using Smith's model of A (The current situation), B (The desired situation), and C (Feedback to reduce the gap between A and B).

Customer Value and Scope

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

A. A meeting was held with the customer/product owner at Alingsås Vattenskidklubb. When testing the application he wanted additional features. As the initial scope was quite narrow, the team agreed to fulfill those requests. Hence, the chosen scope of the application has increased in order to create further value for the customer.

B. The desired outcome is as always to ensure that the customer's requests are met. Additionally, the team aims to prioritize the US such that they bring value for each sprint. The desired outcome, is however, to have the product owner/customer to prioritize them, to ensure the correct prioritization is done.

C. To move from the current situation to the desired situation the customer needs to be more involved.

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)

A. We have had a success criteria to be able to provide the customer with a minimal viable product, with functionality according to expressed needs. However, it feels as this success criteria has changed towards providing the customer with a complete product. As stated the previous weeks, an additional success criterion is to enhance knowledge in React and Spring Boot as part of the project.

B. The desired outcome is to reach the success criterias. These will be done when all of the team members feel satisfied with the product and the learning outcome. Additionally, the customer must be content, in order for the project to be completed.

C. The desired outcome will be reached through communication, where it is important that each team member express their thoughts and opinions regarding the project. Add

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

A. Currently, acceptance criterions and effort estimation is conducted at the sprint planning meeting. However, not all User Stories received acceptance criteria, same as the last week. Thus, there is a difficulty in understanding when a User Story is completed or not.

Additionally, US are broken down further to tasks, which has evolved to a quite smooth process as the knowledge of the team members has enhanced substantially.

B. The desired outcome is the same previous weeks:

Acceptance criteria are critical in assessing whether a User Story is finished or not. Thus, the desired outcome is to have acceptance criteria for all User Stories, in order to assess whether a User Story can be marked as done or not.

C. To reach the desired outcome, acceptance criteria must be established in the sprint planning meeting, as there is still no consensus when a User Story is accepted.

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

A. There are still no formal acceptance tests. During the last couple of weeks testing has been done individually or in pairs. Thus, some bugs might have been incorporated in the code.

B. As previous weeks the desired outcome is to:

"have acceptance tests for each User Story, both for the Usery Story specifically but also for its integration with the rest of the code. Moreover, it is also desired to have a fixed time where the acceptance test should be held. Furthermore, it would be desired to have the product owner partake in these acceptance tests"

C. The team has actually decided on having a half a sprint for conducting thorough testing. As no formal testing has been done, this could be critical in ensuring that the customer receives a functional product. Thus, the team hopes to catch up with the testing and thereafter establish acceptance criterias and testing those each sprint review.

The three KPIs you use for monitoring your progress and how you use them to improve your process.

A. The KPIs we track are balanced to monitor both productivities, sustainability, and the creation of customer value. Our KPIs have been slightly modified after a discussion with Martin.

B. As stated in previous team reflection:
"The desired situation would be that we could take measures as a result of the KPIs and that they would converge towards the golden mean. Another desirability would be that all group members experience the KPIs quite equally, which in turn would indicate even workload relative to competence"

C. In order to reach the desired outcome of situation B, the KPIs need to be monitored properly throughout every sprint. They need to be evaluated in context to prior measurements and group members' different views, so that each individual can be compared to the mean value of the group.

Application of Scrum

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

A. The team has not used a Scrum master which has actually been beneficial given the group constellation. As the knowledge of the group members varies, the most knowledgeable group member within a certain area, often takes the lead. Thus, making the process more optimal. Additionally, one of the group members acts as a Product Owner.

B. The desired outcome is to have roles within the team that facilitate the project process.

C. In order to reach the desired outcome, the roles need to satisfy the team members. This can be ensured by having an open conversation about it during meetings.

The agile practices you have used and their impact on your work

A. Currently, we are ensuring that we work according to the principles of Scrum. One way of ensuring is to use the Scrum board frequently, and ensure that all of the US fulfills the INVEST criterias. Additionally, we have put a great effort in breaking each US further down in smaller tasks. Hence, ensuring that the team can work agile.

B. As stated the previous weeks:
"The desired outcome is to have clear tasks where we know who is working on what specifically to clarify what tasks are available for members who are ready to take on new tasks"

C. To achieve the desired outcome from the current situation communication is key. We have started with delegating each of the tasks to members. However, as the current communication is not flawless, some US have not been completed during the sprints. Although, some other group members have been finished early on in the sprint.

The sprint review and how it relates to your scope and customer value (Did you have a PO, if yes, who? If not, how did you carry out the review? Did the review result in a re-prioritization of user stories? How did the reviews relate to your DoD? Did the feedback change your way of working?)

A. The current situation is similar to the last weeks. During the sprint reviews, Gustav is replacing the POP, as he has a close connection with the customer. The review has not yet changed the prioritization of US, as this prioritization is based on the customer's requirements and ensuring that each spring brings value to the project.

B.As stated in previous reflections:

"Optimally we should review the sprint with the PO to be sure that the tasks and stories are accepted"

Additionally, it would be beneficial to receive feedback from the PO of the implemented features.

C. To reach the desired outcome, the customer's need must be scrutinized. During the last meeting with the customer, some of the implemented features might not have aligned with the customer's vision. However, as the participation is restricted this issues will occur.

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)

A. The tools have been the same throughout the project. We use IntelliJ as IDE, as this was recommended by more advanced programmers in the group. Furthermore, Github and Git are used for version control. The expertise to use them has been passed down from more experienced programmers. Additionally, Trello has been used as a scrum board, which is something the whole team has acquired knowledge within by participating in the lectures and using the web. Moreover, knowledge within the new programming languages React and Springboot were acquired by doing tutorials. However, it should be noted that the learning is iterative, meaning that knowledge is acquired continuously.

B. The desired outcome is to be able to utilize the tools in an efficient manner and ensure that all of the team members feel comfortable using them.

C. To reach the desired outcome, the team believes in learning by doing. Additionally, there is a need for a continuous discussion to ensure that all team members feel comfortable using the tools.

Design decisions and product structure

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

A. As stated last week the current choice of:

"APIs and architecture patterns have helped us tremendously in creating customer value. The work behind each User Story has been simplified as the choice of API has enabled the use of good coding templates. One design decision was whether to use Bootstrap or PrimeReact for the UI. The choice of PrimeReact made the work very simple, as multiple templates for dynamic tables were provided"

B. The desired outcome is the same as the previous week.

"The desired outcome is to have made design decisions that simplifies the coding"

C. To reach the desired outcome, once again, discussion is key. As each choice of design must be well thought out, and discussed during the collective meetings.

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

A. As stated in the previous week a domain document was received in the beginning of the project by the client. From this document the database was developed by using a ER-diagram. However, no further technical documentation has been made.

B. It would probably be beneficial to use more technical documentation.

C. To reach the desired outcome, each case must be regarded in isolation. Some cases require documentation to create value for the customers, whereas others will just create unnecessary work for the project team.

How you use and update your documentation throughout the sprints

A. Currently, there is some documentation in the code as stated in the previous Team Reflection. However, still most of the focus has been on programming during the sprints. There is no current standard of when to insert a documentation.

B. The desired outcome, which is the same as previous weeks, is to have code that is fully explained and documented. Not only for the purpose of the team, but other stakeholders, such as the customer. Without a fully documented code, it will be hard to conduct updates in the future. As the task of updating might be delegated to other programmers.

C. In order to reach the desired outcome, there is an urgent need for a meeting. This was not under discussion during this week's sprint. However, as the project is ending in a few weeks, it is crucial to start discussion how to go about the documentation of the code.

How you ensure code quality and enforce coding standards

A. Currently there is no standard of code quality. As mentioned earlier, under another section of this team reflection, a half sprint will probably be dedicated to ensuring that the code quality is sufficient. The coding standards are actually tightly coupled with the standards of different libraries, such as PrimeReact.

B. The desired outcome is to have established standards of how to code. This should also be integrated with the documentation standard. Additionally, there must be a standard for ensuring code quality.

C. To meet the desired outcome of B from the current situation C, there is a need to establish standards. It is starting to get critical, as the project is soon finished with neither of the standards implemented yet. Thus, there is no assurance that the code is not bug-free etc. To solve this problem a meeting regarding this topic must be held urgently.