CS 250 Final Project

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***Sprint Review and Retrospective***

**Applying Roles:**

* **Product Owner-** The primary role of the product owner, during this project or otherwise, is to assess the many needs of the stakeholders and pass it on to the rest of the team. With Agile, this often occurs throughout the development process during Scrum Meetings. The primary examples of this during the project were when the stakeholders (SNHU Travel Customers) voiced they wanted the website to list the top 5 destination packages, for a customized listing based on previous travel destinations, and option to filter searches based on climate, budget or travel type. Later, the stakeholders decided to swap the top 5 destinations to the top 5 wellness and detox destinations. Each of these needs were passed on to the team so they could take on their respective roles towards the project. The Product Owner is also responsible for the product backlog
* **Tester-** For this project, the primary role of the tester was to develop User Stories for the voiced needs of the stakeholders.Additionally, the tester had to reach out for clarification from the Product Owner, since the product owner is the one who knows the needs of the stakeholders best. The tester was also responsible for testing the code that was developed, as well as the adjusted code after the Product Owner had the team swap to wellness and detox destinations.
* **Developer-** The Developer was responsible for making the adjustment from the top 5 destinations to the top 5 detox and wellness destinations. The developer was likely also responsible for the initial program that listed the top 5 destinations since that was a need passed on by the product owner. The developer also had to reach out to the product owner and the tester for clarification on the changes needed for the transition from the top 5 destinations to top 5 wellness destinations.

**Completing User Stories:**

The User Stories applied the concepts of the Agile methodology in a few ways. First, a template was used to cut back on the time it would take to develop the template from scratch each time. Additionally, the tester had to reach out to the product owner for additional information, which applied the Agile framework through team cooperation. The SDLC helped by providing a generalized map of events during the development process, this allowed the tester to understand their own role in the project as well as team members roles and possible ways to cooperate with the team.

**Handling Interruptions:**

There was a slight interruption in development when the stakeholders voiced, they wanted the top destinations to instead list the top wellness and detox destinations. The Product Owner shared these concerns with the team during a scrum meeting. The team then asked any needed questions and determined the best way to go about making the adjustments while still meeting the product deadline. The tester developed new user stories, and the developer made the adjustments to the code by swapping the destinations to new top wellness destinations. This included adjusting the header name, background color, destinations and destination photos. It also involved communication between team members to determine the specific needs.

**Communication:**

There were several key examples of communication between the team members. Some were during the Scrum Meetings, but written examples include the emails between the developer and tester to the Product Owner for clarification.

“Dear Christy and (Testers Name),

I hope this email finds you well. As you are aware, we have been asked to make some changes to the Top 5 Destinations Project for SNHU Travel. I have familiarized myself with the current coding structure and need to request some additional information to complete the adjustments given. To be specific, I would like to know if you had specific destinations in mind for the wellness destinations or if these destinations are being pulled from the top 5 wellness destinations. Additionally, do we still want to keep it at 5 destinations, or should this be expanded further? Are there any specifics for the format I should consider as far as coloring, size, and overall layout? This should be everything I need to get started on the adjustments, however if any other concerns arise, I will be sure to reach out promptly. I would appreciate a prompt response in turn so that we can make this deadline.

Best Regards,

Michael, Developer”

Here the developer reached out to both the Product Owner and tester for clarification on the adjustment from top 5 destinations to top 5 wellness destinations. This mostly consisted of asking if they already had destinations in mind or if the developer had the responsibility of determining the top wellness spots. They also asked if they wanted the results to be expanded beyond the top 5 wellness trips. Lastly, they asked about other adjustments like the format of the listing.

“Dear Product Owner,

I am currently in the process of developing test cases based on the User Stories provided for SNHU’s travel website. The User Stories have been very helpful with this process. However, to ensure we are all on the same page, would you mind providing some additional information? Specifically, I would like to know more about the current limitations of the website. Additionally, it would be helpful to get a better idea of how you want these updates to be formatted within the existing website. This will help ensure I do my part and make everything as presentable as possible, while also preventing any compatibility issues along the way.

Best Wishes,

Michael”

Here is the email the tester had sent over to the Product Owner for clarification on their role of developing test cases from the User Stories they previously developed. The tester requested additional information about the limitations of the current website to ensure compatibility. They also requested information about the specific updates being made, primarily concerning the format.

**Organization Tools:**

The Agile framework offers several great organizational tools. First, sprint planning is used to determine what needs to be done and determine estimations and prioritization. The Daily Scrum Meetings are an essential part of Agile, which allows time for team members to meet, ask what is done, needs to be done, and what is in the process of being done. Additionally, it allows team members to coordinate when possible and ask questions when needed. The Sprint Review is used to showcase the completed project and gather feedback. The Sprint Retrospective is a well-structured review of the sprint and assesses the application and effectiveness of the tools applied throughout the process. These tools help all throughout the process since they are used on an as needed basis.

**Evaluating Agile Process:**

The project could not have been completed as rapidly and efficiently if not for the use of Scrum-Agile techniques. If the team had followed the Waterfall Model, the new needs of the stakeholders would not have been assessed until after the initial project was completed. One clear con, which also served as a pro, was the fact that the new needs of the stakeholders threw off the team towards the end of the development process. However, this ended up being a pro since SNHU Travel is now one of the first travel sites with a focus on wellness and detox trips. Another pro is the fact that team members are allowed to communicate both as needed and at daily scrum meetings. This assists with team cooperation and efficiency since if a member gets stuck on something others can assist if able. This again comes as a con, since the Scrum Meetings can be viewed as tedious and a waste of time, which can affect morale. Lastly, open communication provided with the Agile Methodology is useful since team members can reach out as needed for additional information from team members, including the Product Owner.