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CS-250

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### **Sprint Review and Retrospective**

At Chada Tech we have decided to take on an innovative approach to how we develop software. This new methodology is called the Agile methodology, focusing on a Scrum framework. Scrum - Agile methodologies carry specific roles for clear organization and communication within the team for the development of software. The first role in the agile scrum team is the product owner.

The Product Owner is responsible for representing the customer's needs and creating a prioritized product backlog. They contribute to our team by providing direction and vision, making sure the team is working on the most valuable features first, and making decisions about what features to build. Then we have the role of the Scrum Master. The Scrum Master facilitates the Scrum process and ensures that the team follows the agile principles. They also contribute to the team by coaching the team on Scrum practices, removing impediments that block progress, and helping the team to continuously improve their processes. And the final role in our team is the development team. The Development Team is responsible for designing, building, testing, and delivering a potentially shippable product increment at the end of each sprint. They contribute to the team by collaborating closely with the Product Owner to understand the requirements, estimating the effort required to complete the work, and delivering high-quality work on time.

Each role in a Scrum-agile team has a specific set of responsibilities, and each contributes to the success of the team in different ways. The Product Owner, Scrum Master, and Development Team work together closely to ensure that the team is delivering value to the customer and continuously improving their processes.

Using the organizational traits of a scrum agile approach to SDLC in the completion of the user stories is key. Keeping things small and workable. The large task of creating high quality software efficiently requires the team two break things down into smaller more manageable tasks the team will then work on these tasks collaborating closely to ensure that each is completed according to the definition of done that has been agreed upon by the team. During my part of the SNHU (Southern New Hampshire University) travel project I seem to have struggled with the user story portion of the scrum process. It was clear that I needed to have direct communication as a developer with the Product Owner. Without this collaboration I was unable to portray the vision onto the user stories. Both clear communication with developer product owner and testers is key to producing important user stories.

As agile methodologies allow for these instances where there's interruptions and if the project decides to change direction. The point of the user stories is to draw out these directional changes and adapt to them. The very definition of agile methodologies is to be flexible when unexpected roadblocks and or changes happen to the software development process. Additionally, Scrum-Agile promotes frequent communication and collaboration between team members and stakeholders, which can help ensure that everyone is on the same page and any changes in direction are communicated clearly and quickly. Overall, the Scrum-Agile approach can help teams stay focused, prioritize tasks effectively, and adjust to changes in direction as needed, ultimately leading to successful project completion even in the face of unexpected challenges.

Effective communication is crucial for success in a Scrum-Agile team. As explained in some of the sections above we can see that the whole team hinges on the ability to communicate clearly and concisely. Also using tools for faster collaboration such as e-mail or Microsoft Teams. My team used e-mail software to communicate directly with our product owner about some of the issues we were having with lack of information from the user stories. Please see the example below of how I communicated with my product owner for essential information from the user stories.

SNHU Travel Project 1-Apr-23

Dear Christy,

As the Developer of SNHU Project I see we are lacking in some extremely essential information. The tester has left out in the user stories.

What OS environments were used for the test cases – No information was given is the executables are intended for multi-OS

User Stories need to be detailed. Supply clear and concise documentation.

Understand timelines are an estimations

On behalf of the development team, we are at a standstill in development till the above information is given. This is extremely important to the project.

As you can see the e-mail correspondence above is highly effective when communicated in a way that all parties that are going to read the e-mail can understand and give concise and direct communication back to the team. Many roles are affected by the above e-mail from the product owner to the user stories brought to the testers and the development team.

Scrum is an Agile method that focuses on iterative and incremental development, and it involves cross-functional teams working together to deliver a product incrementally. Scrum emphasizes the importance of communication, collaboration, and transparency to ensure that all team members are on the same page.

Organizational tools, on the other hand, are software or platforms that help teams manage tasks, workflows, and projects. These tools can range from simple to complex, and they can be used to track progress, set deadlines, assign tasks, and communicate with team members.

Some examples of organizational tools that are commonly used with Scrum-Agile principles include:

Agile Project Management Tools: These tools provide a way to manage Scrum projects, including features like sprints, user stories, backlog management, and progress tracking.

Collaboration Tools: These tools facilitate communication and collaboration between team members. They can include chat tools, video conferencing tools, and file sharing platforms.

Task Management Tools: These tools help teams manage individual tasks and track progress. They can include to-do lists, task boards, and kanban boards.

Time Management Tools: These tools help teams track the time spent on tasks and projects, as well as manage deadlines and priorities. Overall, the combination of organizational tools and Scrum-Agile principles can help teams work more efficiently and effectively, and ultimately deliver better results.

The Scrum-agile approach is a framework for project management that is designed to be flexible and responsive to changes. It emphasizes iterative and incremental development, continuous feedback and improvement, and cross-functional teamwork. Here are some potential advantages and limitations of the Scrum-agile approach:

Advantages:

Flexibility: Scrum-agile approach is highly flexible and allows for quick changes to be made in response to new developments or changes in the project scope.

Transparency: The Scrum-agile approach encourages open communication and transparency throughout the project, which can help to identify issues early and ensure that everyone is working towards the same goals.

Iterative and incremental development: The Scrum-agile approach promotes iterative and incremental development, which allows teams to deliver working software or product features quickly and get feedback from stakeholders.

Teamwork: Scrum-agile approach encourages cross-functional teamwork and collaboration, which can lead to increased productivity, better communication, and improved morale among team members.

Limitations:

Learning curve: The Scrum-agile approach can be difficult to learn and implement, especially for teams who are used to more traditional project management methodologies.

Lack of structure: The flexible nature of Scrum-agile approach can also be a disadvantage if there is not enough structure or guidance for the team.

Dependency on team members: The success of Scrum-agile approach depends heavily on the skills and expertise of individual team members. If team members lack the necessary skills, the project may suffer. Communication overload: The emphasis on communication and collaboration can also lead to information overload and make it difficult to stay focused on the project's goals.

Overall, the effectiveness of the Scrum-agile approach will depend on the specific project, team, and organizational context. When implemented correctly, it can be a highly effective framework for project management, but it requires a significant investment of time and resources to do so.

As for the SNHU travel project, I would say it would be necessary to provide the end user with a high-quality project. There are a lot of moving parts in a travel site from the top five destinations to the top five Wellness destinations. The travel industry is ever evolving with different means and places to travel to and our project we need to stay up to date to those changes to provide the high-quality product that chatter would want to produce.