**CS-250 Software Development Lifecycle**

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**Final Project: Sprint Review and Retrospective**

Throughout the project, I experienced many different roles, in order to fulfill the requirements given by the client. The Scrum Master was the first role I took and is the facilitator of the Agile development team. Moreover, the Scrum Master facilitates how information is exchanged throughout the team. One of the ways this is done is during daily meetings, also called a stand up. During these meetings, each team member is to attend and asked three questions; “What did you do yesterday?”, “What will you do today?” and “What is impeding your progress?”. I find these meetings to be helpful in enhancing the lines of communication throughout the team. Furthermore, the Scrum Master is there to aid the team to get the job done and help in any way they can. Being a Scrum Master is not, solely, about helping the team, but also the experiment on Agile methodology. They coach the team in understanding Scrum theory, practices, rules, and values.

The next role was the Product Owner. As the Product Owner, you are the face of the team because this role is the only role in contact with the client. As the Product Owner, you must understand the client’s needs to understand their requirements. This will help get the content necessary for the team to work.

The next role I took was the Developer. This is one of the main roles of a Scrum Team as it is responsible for developing the requirements of the client or producing the deliverables. Therefore, it is vital to have as much information from the client as possible because this is how the developer gets to work. When the developer completes one of the requirements, it goes to the Tester next to determine if he/she can move forward with the next task or if certain areas need to be addressed before continuing. Moreover, this role is the most beneficial, of working under the agile method, because the response time is almost immediately.

The next role was the Tester. The duties of a tester is to take the user stories from the Product Owner and make test cases that decide when the user story meets the requirements of being completed. Testing is done from the start of development and remains constant throughout the entire process; providing immediate feedback to the development team. Building test cases for the developers gave them the understanding of what the product needs to provide to be accepted.

Each role represents a very important piece of a bigger picture. Each one contributes, in their own way, to the outcome of the final product. It would not be the same as working under the Waterfall Method. In this method, there is a higher chance of error in the final product contrary to working under an agile method. This method allows the team to constantly test the different pieces that make up the final product, allowing them to make the necessary adjustments in a timely manner and prior to sending to the client.

As I began working on the project and taking on the different roles, I was able to effectively develop each deliverable. Scrum process is often used to manage complex projects and increases productivity, as opposed to a waterfall process. Scrum process allows any organization or team the ability to adjust rapidly to any change in requirements and produce deliverables on time. With the Scrum process, user stories were able to get completed because there was constant communication with the client, allowing the Product Owner to transmit these requirements to the Scrum Master. Since this process allows space for changes, when the client asked for a completely new requirement, changing what was previously developed, the team was able to rapidly adjust.

For the Scrum Master to be informed, at all times, of what is happening, it is useful to have a white board with the requirements and priorities previously established in Scrum meetings. Another useful tool that helps is software; software allows the team to be always connected and each one the ability to update the requirement that is being worked on.