

Agile Presentation

SNHU CS 250

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Various Roles of a Scrum Team

There are various roles in a scrum team, here is a description of each role in a typical scrum team

MANAGEMENT TEAM

- **Scrum Master:** This person holds the entire team together and ensures that the Scrum process is executed properly.
- **Product Owner:** This person presents the client's interest and is committed to providing a value working product.

DEVELOPMENT TEAM

- **Tester:** Test for quality assurance in the development process
- **Developer:** Writes code for project features and functions.

Software Development Life Cycle:- Agile Method

- **Product Backlog:** A list developed by all team members, it contains features, tasks to be implemented, and the list is listed by priority.
- **Sprint Planning and Backlog Creation:** All backlogs are placed to a specific sprint; each sprint has a priority number and time duration.
- **Sprint/Daily Meetings:** This is a 15 mins short daily meeting designed for a review of the past sprint and the day's sprint goals to be achieved. Any roadblock and breakthroughs are shared among the team members.
- **Product increment release and Sprint Review:** After multiple changes and versions of the project, the product owner is being presented with a complete product, at this time the product owner will allow for testing features and debugs. The agile method allows frequent product release, after each release the team will review the sprints of the release product.
- **Retrospective and Next Sprint Planning:** The final step in the process is retrospective and next sprint planning. At this time, the team will review what they did in the previous project, acknowledge what worked and didn't work for them, and apply these findings to the current and future development and planning.

Difference and Similarity Of Agile Development approach and Waterfall Development approach.

	Agile	Waterfall
Able to adapt to a new requirement and specification	Does this very well	Unlike agile process, it is difficult to include new requirement
Produce more release quicker	More release are produced due to its continuous iteration	Takes time to produce one release
Collaboration	Agile supports open and honest collaboration among them.	Waterfall supports collaboration, but difficult to cope with errors
Frequent communication	Agile process is developed based on the principle of frequent and short meeting among the team members	Water method allow communication, but not as frequent as it is in Agile method.
Time management	Time is divided and managed in a way that every team member gets a chance to express their role production process and product.	Focused more on completing the over all project
Flexibility	Flexible	Not very flexible

Factors to consider when choosing a waterfall approach or an agile approach

- **Waterfall approach:** the waterfall development method would work best when dealing with a more complex project that carries a lot of dependencies. However, it does not support project iteration, continuous integration, and continuous delivery very well.
- **Agile approach:** Agile development method supports project iteration very well; it uses its continuous integration and continuous delivery process to effectively tune and perfect a project to a delivery. The agile process breaks a project into parts and assigns them according to the time and number of engineers it will take to complete.

References:

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