

# Agile

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# The Term Agile

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- The Agile methodology is a project management technique that emphasizes constant collaboration and improvement by splitting the project into phases. Teams go through a planning, execution, and evaluation cycle.
- Agile Method contains Four main roles, Product Owner, Scrum Master, Developer and Tester



# Product Owner

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- The product owner is in charge of communication with the user and client and the team.
- The Product Owner (PO) is the Agile team member who is primarily responsible for optimizing the team's value by ensuring that the team backlog is aligned with the needs of customers and stakeholders.



# Scrum Master

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- The Scrum master coaches team members in self-management and cross-functionality, you can influence the removal of impediments to the Scrum Team's progress and ensure that all Scrum events take place and are positive, productive, and kept within the timebox.
- a person who makes labor easier, particularly by removing obstacles to job completion and goal achievement



# Developer

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- The developer is the person who writes the code for the program/project.
- Understanding the story's business purpose and establishing and analyzing viable alternative solutions to satisfy the story's business purpose

# Tester

The tester creates test cases and passing criteria to assure the product's quality.

Telling them developer which changes need to be made and what works and what doesn't work.

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# SDLC

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## Software Development Life cycle

- SDLC is a framework for describing the activities that take place at each step of a software development project.
- SDLC can be defined as the process of developing, deploying, and maintaining an information system.
- An information system is defined as a set of interconnected components that gather, process, store, and output information to perform a business job.



# Phases

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**Plan:** This step of the agile process involves gathering individuals and assigning roles. This is also where the scrum Master establishes the scrum's guidelines. Everything that is required is determined here.

**Design:** The requirements that were studied in the analysis phase are modeled in this step. During the design phase, various tasks are completed, such as application architecture.

**Launch:** If everything works correctly off the previous phases this is where the product will be put out and used.



## AGILE vs Waterfall

### Agile

- Permits changes if needed to code
- Easier to create changes
- Feedback
- Efficient
- Communication

### Waterfall

- Can't stop the process
- Very little interaction
- Must restart if something changes
- Limited feedback

# Citations

"The Role of a Professional Tester in an Agile World."  
*Scrum.Org*, [www.scrum.org/resources/blog/role-professional-tester-agile-world](https://www.scrum.org/resources/blog/role-professional-tester-agile-world). Accessed 22 June 2023.

Cobb, Chuck. "Agile Project Management Training." *Agile Project Management*, 5 Jan. 2021, [managedagile.com/what-does-it-mean-to-be-an-agile-developer/](https://managedagile.com/what-does-it-mean-to-be-an-agile-developer/).

Rix, Marc. "Product Owner." *Scaled Agile Framework*, 15 Mar. 2023, [scaledagileframework.com/product-owner/](https://scaledagileframework.com/product-owner/).