

Agile Method

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Product Owner

The product owner role is very important. The product owner's responsibilities include:

- Develops the product vision (Overeem, 2016)
- Manages the Product Backlog (Overeem, 2016)

With a good product owner, the products vision stays in tact and ensures the product backlog includes relevant goals.



Scrum Master

The Scrum Masters role is:

- Ensure scrum methodologies are being met (Overeem, 2016)
- To facilitate meetings
 - Ensure meetings stay on topic and are productive
- Act as a leader (Overeem, 2016)
- Mentor the team members (Overeem, 2016)
- Resolve conflict (Overeem, 2016)



**AGILE SCRUM
MASTER**

Development Team

The development teams role is:

- Develop products that meet the product owner and users requests

It is important that the developer is:

- A team player
- Willing to help others
- Organized

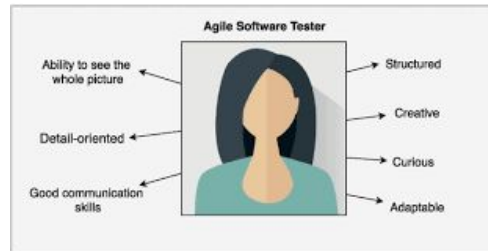


Tester

The testers role is:

- Create test cases
- Create acceptance criteria
- Ensure the products are up to the standards

With a good tester, it ensures the products being released are the best they can be which is very important.



Agile Process

The steps of the agile process include:

- Planning
 - Setting up the scope, planning, estimating, project goals, and review (Nehra, 2022)
- Backlog planning
 - Requirements, creating user stories, defining criteria (Nehra, 2022)
- Sprint
 - Assign sprint goals, design documents, task assignments, update estimates (Nehra, 2022)
- Sprint Review
 - Discuss, update plans (Nehra, 2022)
- Sprint Retrospective
 - How could team improve, what went well, how to proceed and succeed for next sprint (Nehra, 2022)
- Repeat or deliver full project

Waterfall Approach Process

The steps of the Waterfall process include:

- Requirements
 - Schedule, assigning goals (Laoyan, 2022)
- Design
 - Designs how software will work (Laoyan, 2022)
- Implementation
 - Start of development (Laoyan, 2022)
- Testing
 - Search for bugs or errors (Laoyan, 2022)
- Deployment
 - Deliverable is launched (Laoyan, 2022)
- Maintenance
 - Continuously fix bugs (Laoyan, 2022)

Waterfall Approach vs Agile Approach

When to use Waterfall method:

- When strict regulations are necessary (Hoory & Bottorff, 2022)
- Concrete timeline (Hoory & Bottorff, 2022)
- No changes needed throughout development (Hoory & Bottorff, 2022)

When to use Agile method:

- Need ability for change (Hoory & Bottorff, 2022)
- Need quick project completion (Hoory & Bottorff, 2022)
- Need flexibility (Hoory & Bottorff, 2022)

References

Hoory, L., & Bottorff, C. (2022, August 10). *Agile vs. Waterfall Methodology*. Forbes. Retrieved April 15, 2023, from

<https://www.forbes.com/advisor/business/agile-vs-waterfall-methodology/>

Laoyan, S. (2022, January 12). *Everything to Know About Waterfall Project Management [2023]* • Asana. Asana. Retrieved April 15,

2023, from <https://asana.com/resources/waterfall-project-management-methodology>

Nehra, M. (2022, May 11). *6 Stages of the Agile Development Lifecycle*. Decipher Zone. Retrieved April 15, 2023, from

<https://www.decipherzone.com/blog-detail/agile-development-lifecycle>

Overeem, B. (2016). *Characteristics of a Great Scrum Team*. Scrum.org. Retrieved April 15, 2023, from

<https://www.scrum.org/resources/blog/characteristics-great-scrum-team>