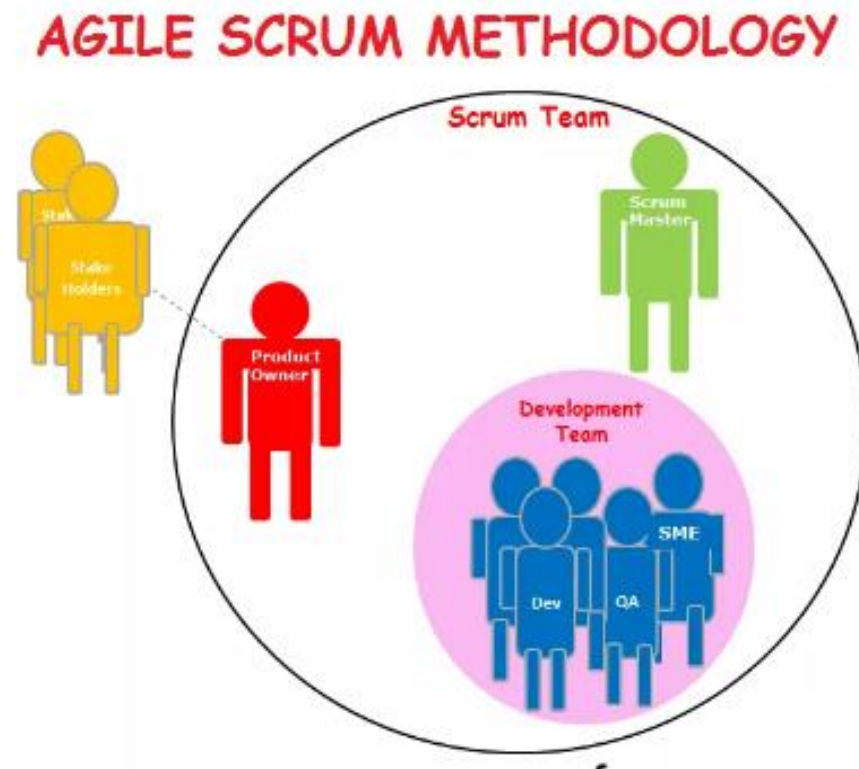


Agile Methodology Using Scrum

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Roles in Scrum



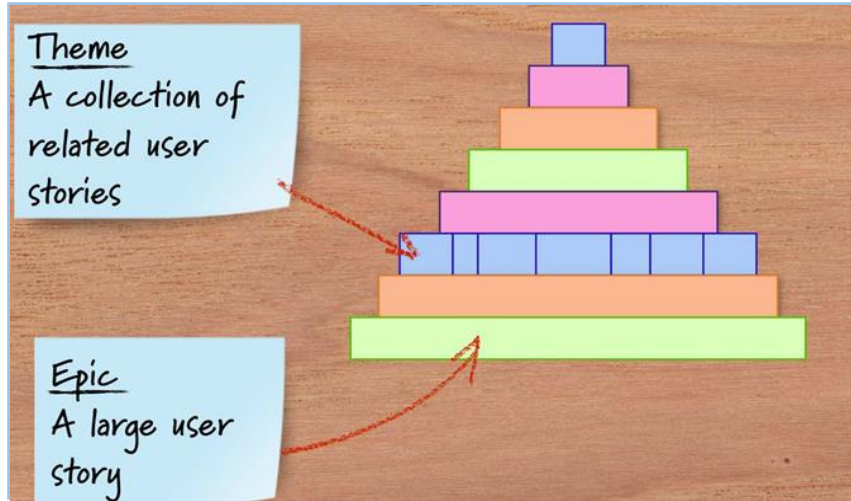
Roles

- Product owner
- Scrum Master
- Team/Scrum

Roles and Responsibility of Scrum members

Product Owner	Scrum Master	The Team
•He defines features of the product.	•He manages the team and look after the team's productivity	•The team is usually about 5-9 members
•Product Owner decides release date and corresponding features	•He maintains the block list and removes barriers in the development	•It includes developers, designer and sometimes testers, etc.
•They prioritize the features according to the market value and profitability of the product	•He/She coordinates with all roles and functions	•The team organizes and schedule their work on their own
•He is responsible for the profitability of the product	•He/She shields team from external interferences	•Has right to do everything within the boundaries of the project to meet the sprint goal
•He can accept or reject work item result	•Invites to the daily scrum, sprint review and planning meetings	•Actively participate in daily ceremonies

Scrum Framework & Terminologies Used



Artifacts

- Product backlog
- Sprint backlog
- User Story
- Story Points
- Burn down Chart
- Increment
- Decrement

- **Product Backlog:** It is a collection of user stories captured for a scrum product. The product owner prepares and maintains the product backlog. It is prioritized by product owner, and anyone can add to it with approval from the product owner.
- **Sprints:** It is a set period of time to complete the user stories, decided by product owner and developer team, usually 2-4 weeks of time.
- **Sprint Backlog:** It's a set of user stories to be completed in a sprint. During sprint backlog, work is never assigned, and the team signs up for work on their own. It is owned and managed by the team while the estimated work remaining is updated daily. It is the list of task that has to be performed in Sprint
- **Burndown chart:** Burn-down chart represents overall progress of the work in progress and work completed throughout the process. It represents in a graph format the stories and features not completed

- **User stories:** They are short explanation of functionalities of the system under test.

Story Size	Score	Past Reference Stories
XS	1/2	As a user, I want to add a product to cart
S	1	As a user, I want to pay using e-wallets
M	2	As a user, I want to see recommended product
L	3	As a user, I want search for a product using image
XL	5	As a user, I can design & order my own product (Fashion)
XXL	8	As a user, I can view a product in Augmented Reality
XXXL	13	As a user, I can try on a product virtually using AR model

Agile Ceremonies

Ceremonies

- Sprint planning
- Sprint review
- Sprint retrospective
- Daily scrum meeting



Sprint Planning

- In Sprint Planning meeting, the product owner will have a prioritized product backlog.
- Work is selected from the Product Backlog and pulled into the Sprint Backlog.
- Each items are discussed with the team. Goals and target points are set for the sprint in this meeting
- Increment and decrement of the story will happen here
- The duration is depends on the story numbers, can be from 1 to 3 hours.
- Scrum master and Scrum Team (All Developers, QA members, BAs and Service team members) will attend this meeting
- This meeting will be conducted before every sprints get started

Daily Stand Up call

- The Meeting will be less than 15 minutes.
- Stand-up is designed to quickly inform everyone of what's going on across the team.
- It's not a detailed status meeting. Following will be discussed in that meeting
 - What did I complete yesterday?
 - What will I work on today?
 - Am I blocked by anything?
- Scrum Master and all the scrum team members will be involved in the call.

Sprint Retrospective

- Retrospectives help the team to understand what worked well—and what didn't.
- Team will rate the sprint out of 10 and discuss the below
 - What went right?
 - What went wrong?
 - What can be done better for next sprint?
- Scrum master and Scrum Team will attend this meeting
- Duration of this meeting is 1 hour
- After the show case meeting, This meeting will happen

Sprint Review / Show case Meeting

- After completion of every sprint, Team will give the showcase to the product owner.
- Scrum team will show the demo of app with current sprint's completed stories
- Duration for this showcase is 1 hour
- Scrum master, Product owner, Scrum Team and other Business people will attend this meeting
- This meeting will happen once the sprint is completed (Last day of the current sprint or First day of the next sprint)

Story Grooming session

- We estimate the story points based on the difficulty level of the story
- We are using poker card method to estimate the story.
- Scrum master and Scrum Team will attend this meeting
- The duration is depends on the story numbers, can be from 2 to 4 hours.