

Agile Scrum Methodologies

- Agile is a continuous iteration of development and testing the software in an incremental approach.
- Project release will be planned for short terms. Per month the sprint duration is 2 weeks.
- In Agile model, we are getting all the requirements in the form of user stories with acceptance criteria and story points, later we will also get BRD/FRD from BA's and designers.
- We will start our testing from requirement phase itself. Frequent requirement and design changes will be there in scrum methodology, so we have to update test scenarios and test cases accordingly and we need to give a walkthrough on test scenarios to BA and designers team. Final version of test scenarios and test cases will be updated in share point. All test cases will be uploaded in HP ALM tool.

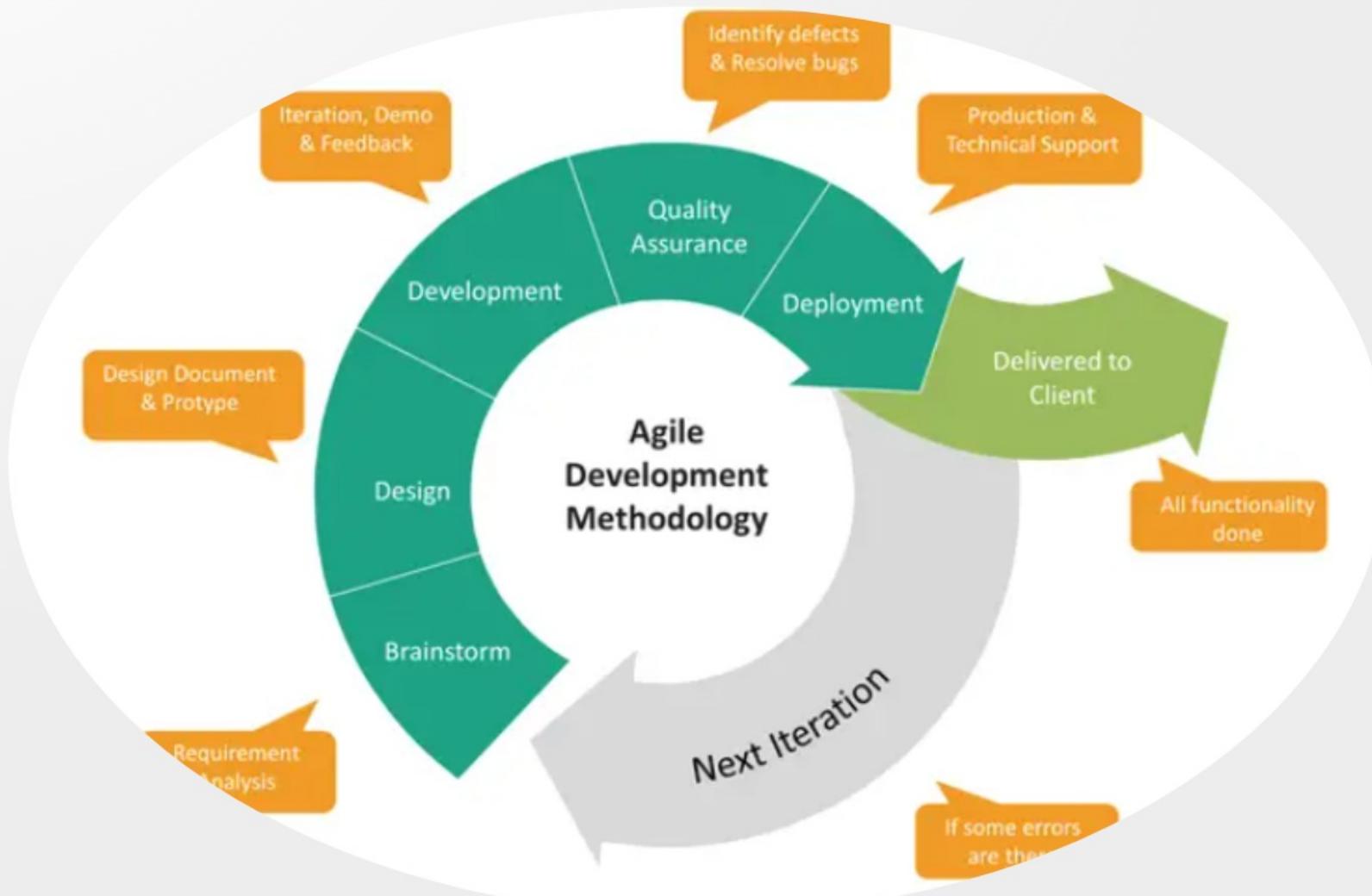
- Daily we have scrum call meetings and these will be conducted by scrum master in that we will discuss about sprint backlog items, product backlog items and sprint grooming.
- **Sprint Backlog:** It is a list of user story tasks identified by scrum team to be completed in a sprint. During the sprint planning meeting, the team selects some no. of backlog items usually in the form of user stories, and identifies tasks necessary to be completed in each user story.
- **Sprint:** A product is built in a series of iteration called sprints that break down big, complex projects into bite sized pieces. Release time divided into no. of iterations.

- **Sprint Planning:** If sprint would start from tomorrow then the sprint planning meeting will happen today before the sprint starts and would discuss on User Stories, No. of people required to handle the project, Time to complete the project.
- One week before the project ends backlog grooming is done to make user stories. In middle of the sprint backlog grooming for next sprint is discussed.
- **Product Backlog:** It is a list of prioritized deliverables (new features) that should be implemented as a part of project or product development. Product owner owns product backlogs, he is the one who prioritized it based on customers feedback or business value. Product owner prepare and maintains product backlog. It is prioritized by product owner, and anyone can add to it with approval of product owner.

- **Grooming:** It is a meeting of the scrum team in which the product backlog items are discussed and the next sprint planning is prepared. Product grooming is critical in product management because it means keeping the backlog up to date and getting backlog items ready for upcoming sprints.
- **Release Backlog:** The product owner co-ordinates with the scrum master to decide which user stories should be targeted for a release. Stories in the release backlog are targeted to be completed in a release.
- **Block List:** It is a list of blocks and unmade decisions owned by scrum master and updated daily.
- **BurnDown Charts:** 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.

- **Scrum:** Is an agile development method which concentrates specifically on how to manage tasks within a team based development environment.
- **Scrum Master:** Master is responsible for setting up the team, sprint meetings and removed obstacles to progress.
- **Product Owner:** The product owner creates product backlog, prioritizes the backlog and is responsible for the delivery of functionality at each iteration.
- **Scrum Team:** Team manages its own work and organized the work to complete the sprint or cycle.

Agile - Scrum Framework



Scrum is based on 3 pillars

Roles

- Product Owner
- Scrum Master
- Team

Artifacts

- Product Backlog
- Sprint Backlog
- Burndown Charts

Ceremonies

- Sprint Planning
- Sprint Review
- Sprint Retrospective
- Daily Scrum Meeting