

- => What is SDLC ?
- => SDLC Phases
- => Waterfall Model
- => Agile model
- => Agile terminology
- => Working with JIRA

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What is SDLC
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- => Software development life cycle
- => It represents end to end process involved in software development and delivery process
- => We have several phases in SDLC
 - a) Requirements Gathering
 - b) Requirements Analysis
 - c) Design / Planning
 - d) Development
 - e) Testing
 - f) Deployment
 - g) Delivery
 - h) Maintenance (SLA)

- => There are several SDLC methodologies available in the market

Ex: Waterfall model, Agile model

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Waterfall Model
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- => Waterfall is the first SDLC methodology came into market
- => Waterfall model is a sequential / linear model
- => In waterfall model after one stage is completed then only we can go for next stage
- => In waterfall model we will move only in forward direction
- => Requirements are fixed and budget is also fixed
- => Client involvement is very less in waterfall model
- => Client will see the project only at the end

Note: If client is not happy with our project delivery then it is time waste and money waste process.

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Agile Model

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- => Agile is an iterative approach to develop and deliver application to client
- => In Agile methodology, planning + development + testing + deployment is a continuous process
- => Application will be delivered to client in multiple releases (Sprints)
- => For every release we will take client feedback.
- => Client involvement is very high in Agile methodology
- => Requirements, Duration and Budget is not fixed

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Agile team

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- a) Product Owner : Responsible for project deliverables
- b) Scrum Master : Responsible to manage Agile team members work
- c) Tech Lead : Senior resource to solve technical challenges
- d) Team Members : Developers + Testers will be there

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Agile Terminology

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- a) backlog grooming : A meeting to identify pending tasks in the project
- b) story : A task that we have to work on (every story will have story-id)
- c) story points : Represents duration to complete the story
 - 3 points: 1 day
 - 5 points : 2 days
 - 8 points : 3 days
- d) sprint planning : A meeting to prioritize the backlog stories to work in next sprint based on team bandwidth.
- e) sprint : Fixed set of stories that we agreed to complete in sprint duration.
 - Sprint Duration : 2 weeks (Industry standard)
- f) scrum : Daily meeting to provide work updates to scrum master.
 - a) What are you working on ?
 - b) When it will complete ?
 - c) Do you have any issues ?
 - d) Do you need any help ?

g) Retrospective : Review meeting to discuss what went well, what went wrong, lessons learnt, improvements and new ideas....

Note: Retrospective will happen monthly once.

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JIRA

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=> Jira software developed by Atlassian company

=> JIRA will be used as project management tool

=> Using JIRA we can perform below activities

- a) Creating tasks (Stories)
- b) Assigning tasks
- c) Bug Reporting
- d) Project Status reports etc...

=> We can practice JIRA using trail version.

Each Team Member should give 3 points per day

10 days sprint * 3 points = 30 points for each member

total_team_size (10) * 30 = 300 points (Sprint goal)