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SDLC
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=> Software development life cycle

=> It represents the process of developing and delivering software applications to client.

=> We have several phases in SDLC

- 1) Requirements Gathering
- 2) Analysis
- 3) Designing
- 4) Development (coding)
- 5) Testing
- 6) Deployment & Delivery
- 7) Maintenance (support)

Note: SLA (service line agreement)

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Waterfall Model
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=> Linear Model (sequential)

=> After one stage is completed then only we will move to next stage.

=> It supports only forward direction

=> Requirements are fixed and budget is fixed

=> Client involvement is very less

=> Client will see the project only at the end.

Note: If client is not happy with the delivered project, we can't do anything because time wasted and money wasted.

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Agile Model
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=> It is an iterative model

=> "Planning + development + testing + delivery + feedback" is a continuous process.

=> Requirements are not fixed

=> Budget is not fixed

=> In Agile model, project will be delivered to client in multiple releases called as Sprints.

=> Client involvement is very high, client feedback is very critical for the project delivery.

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Agile Team =====

- 1) Product Owner
- 2) Scrum Master
- 3) Project Manager
- 4) Tech Lead
- 5) Team Members

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Agile Terminology

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- 1) Backlog Grooming
- 2) Story
- 3) Story Points
- 4) Sprint Planning
- 5) Sprint
- 6) Scrum
- 7) Retrospective

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Product Owner

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- => Interact with Client
- => Understand client priorities
- => Responsible for project deliverables
- => Take client feedback and share with team

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Scrum Master

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- => Team co ordinator
- => Responsible to monitor who is doing which task
- => Go to guy for agile team.
- => Conduct Daily scrum calls (standup / status)
- => Manage JIRA dashboards.

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Project Manager

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- => Project Management

=> Monitor individual team member performance

=> Team members performance rating (mid year and year end ratings)

=> Team members promotions and salary hikes

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Tech Lead
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=> Senior resource in the team

=> Technical person

=> Solving technical issues in the project

=> Provides KT for new joiners

=> Code Reviews

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Team Members
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=> Developers and Testers

=> Development

=> Testing

=> Documentation

Note: Industry standard agile team size is 7 only.

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Backlog Grooming : A meeting to identify pending tasks available in the project.

Backlog stories : Pending tasks in the project

Story : A task that we will create in JIRA.

Story Points : Represents duration to complete that story.

1 day => 3 points

2 days => 6 points

3 days ==> 9 points

Sprint Planning : A meeting to discuss priority stories to complete in next sprint.

Sprint : Fixed set of stories to be completed in fixed duration.

Note: Industry standard sprint duration is 2 weeks.

Scrum : Daily meeting to provide work status updates to scrum master.

Retrospective : Sprint Review Meeting.

- What went well

- What went wrong

- Lessons we have learnt
- Any improvements
- New ideas

Note: For every 2 sprints one retro meeting will happen.

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JIRA
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=> It is used as project management software

=> Using JIRA software we are going to perform below operations

- Create backlog stories
- Assign story points for the story
- Create Sprint
- Story Assignment
- Story status change

Note: It is also used as bug reporting software.

=> JIRA software developed by Atlassian company

=> JIRA is a paid software

Note: We can use trial version for practice (14 days).

@@@@@@@@@@@@@@@@ JIRA Login URL : <https://id.atlassian.com/login> @@@@@@@@@@@@@@@@@@

=> use sign in with google -> select gmail account

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Create below stories in backlog
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- 1) Home page development (AE-1)
- 2) registration page dev
- 3) login page dev
- 4) forgot pwd page dev
- 5) dashboard dev
- 6) git hub repo creation
- 7) jenkins ci cd pipeline
- 8) exception handling
- 9) logging

- 10) unit testing
- 11) code review
- 12) Dev Env deployment

@@@ Add all the stories to Sprint and Start the sprint.

@@@ Assign the story to your name and change story status

TODO ---> In-Progress ---> DONE

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