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Agile with JIRA

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=> SDLC means software development life cycle

=> SDLC represents the process of software project development from starting to ending.

=> SDLC contains several phases

- Requirements Gathering
- Requirements Analysis
- Designing
- Development
- Testing
- Deployment
- Support

=> In SDLC several methodologies

- a) waterfall (outdated)
- b) agile (trending)

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Waterfall Model

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=> It is linear model / Sequential model

=> Work will be completed step by step

=> After one stage completed then only move to next stage

=> It supports only forward direction

=> Requirements fixed & budget fixed

=> Client involvement is very less

=> Client will see project only at the end

=> If client is not happy with project then money will be wasted and time will be wasted.

To overcome challenges of waterfall model, industry is using Agile Model now a days

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Agile Model

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=> Agile is an iterative approach to develop and deliver software applications to client.

=> In Agile model (planning + development + testing + deployment) is a continuous process.

=> Project functionality will be divided into multiple sprints/releases.

Ex: Client has given 100 requirements

Sprint-1 : 30 requirements (plan + develop + test + deliver + take feedback)

Sprint-2 : 30 requirements (plan + develop + test + deliver + take feedback)

Sprint-3 : 30 requirements (plan + develop + test + deliver + take feedback)

Sprint-4 : 10 requirements (plan + develop + test + deliver + take feedback)

=> Client feedback is very important/critical in Agile model.

=> Client involvement is also high in agile model.

=> Requirements & Budget is not fixed in Agile.

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Agile Team

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1) Product Owner : Responsible for client deliverables.

2) Scrum Master : Responsible to manage the agile team.

- Manage JIRA
- Assign the tasks in JIRA
- Follow up the work status with team
- Identify issues in team

3) Tech Lead : Responsible for solving technical challenges.

4) Team members : developers + testers

Note: Industry standard agile team size is 7 to 10 only.

=> One project can have multiple agile teams also.

=> Every agile team will have one tech lead & one scrum master.

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Agile Terminology

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1) Backlog Grooming

2) Story & Story Points

3) Sprint Planning

4) Sprint

5) Scrum

6) Retrospective

=> Backlog grooming is a meeting in which we will discuss pending works in the project.

=> For every pending work, one story will be created in jira. All team members can create stories in JIRA Backlog.

=> For every story we will assign story points.

=> Story points represents duration to complete the story.

1 day -> 3 points

2 days -> 5 points

3 days -> 8 points

=> Sprint Planning is a meeting in which we will discuss about priority stories to complete.

Note: Industry standard for sprint duration is 2 weeks of time.

=> Sprint means fixed set of stories targeted to be completed in sprint duration.

=> During sprint, every day scrum call will be there.

=> Scrum call is a meeting in which we will discuss agile team work updates.

- 1) What i am doing today (story detail)
- 2) When my story will be completed
- 3) Any challenges i am facing to complete

Note: Every team member should give above updates to scrum master in scrum call on daily basis.

Note: If you are not available to join scrum then send your work updates to the scrum master in email.

=> Retrospective is a meeting in which agile team will discuss about previous sprints.

=> Retro is like a review meeting. in retro we will discuss

- what went well
- what went wrong
- lessons learnt
- new ideas

Note: Retro happens monthly once.

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JIRA (Project Mgmt Software)
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=> JIRA S/w developed by Atlassian company.

=> JIRA is a commercial software (we can use trial version).

=> JIRA is used as project mgmt s/w...

- create stories for pending works
- assign stories to team members
- change story status
- sprint reports
- project tracking
- bug reporting

URL To Use Jira : <https://id.atlassian.com/login>

1) Login into jira (scrum template)

2) Create Project

3) Create Stories in backlog

4) Assign Story Points

5) Sprint planning (move stories from backlog to sprint)

6) Assign Story and change story status

7) once story completed, add comment and change story status

8) Give your stories update in scrum call.

===== Sending workupdate in email=====

Subject : Scrum Update | Ashok Bollepalli

Hi Steve,

Greetings for the day..!!

Today i am unable to join scrum call due to my person work.

Please find by work status below

I am working on story AA-7897 (IN Progress)

This is targeted for tomorrow.

I don't have any issues to complete my story.

Thanks,
Ashok.

===== Sending Leave Request email =====

Subject : 000 Request | Ashok Bollepalli

Hi Steve,

Greetings for the day..!!

I will be 000 from 10-Mar to 14-March due to function at home..

Kindly approve my leave request...

Thanks,
Ashok.

===== Jenkins Pipeline Request =====

To : ecomm.devops@tcs.com

Subject : Jenkins Pipeline Creation Request | AA-5

Hi DevOps Team,

Please create jenkins cicd pipeline for 'Orders' microservices.

Git Hub Repo : <url>

@manager : Kindly approve this request.

Thanks,
Ashok.