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### Software Development Life Cycle (SDLC)

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=> From start to end is called as Life Cycle

=> SDLC = Development + Testing + Deployment + Delivery

=> From project start to till project end is called as Software development lifecycle.

=> We have several phases in SDLC

- 1) Requirements Gathering
- 2) Requirements Analysis
- 3) Design (FDD / BRD / SRS )
- 4) Development
- 5) Testing
- 6) Deployment
- 7) Delivery
- 8) Support (SLA - Service Line Agreement ) - 6 months

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### SDLC Methodologies

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- 1) Waterfall (outdated)
- 2) Agile (Most Trending)

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### Waterfall methodology

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- > Linear methodology (Sequential Process)
- > It is a step by step process
- > After one step is completed then only we will move to next step
- > Forward Direction
- > Client involvement is very less
- > Client will see project at the end

-> Requirements fixed & budget fixed

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## Agile Methodology

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-> Iterative approach

-> Development + Testing + Delivery - is a cyclic process

-> Project will be delivered in multiple phases (Sprint)

-> Client Involvement will be there in every phase of the project

-> Requirements are not fixed & Budget is not fixed

Note: Client Satisfaction is most important factor in Agile Methodology

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## Agile Terminology

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Product Owner : Responsible to deliver project to client (delivery head)

Scrum Master : Responsible to manage Agile Team work (Daily Tracking)

Tech Lead : Senior Resource in Team For Technical help

Team Members : Developers + Testers + DB Team + Ops Team

Scrum Meeting : Daily status call ( scrum / status / standup ) - 30 mins

Backlog Grooming Meeting : Meeting To identify pending works in the project

Backlog Stories : Pending Stories we have created in JIRA

Story : A task

Story Points : Represents duration to complete a story

3 points - 1 day

5 Points - 2 days

8 Points - 3 days

Sprint Planning Meeting: To identify priority stories to complete

Sprint : Set of stories planned to complete in given duration (2 weeks)

RetroSpective meeting : Review meeting

- 1) What went well
- 2) What went wrong
- 3) Improvements
- 4) Lessons Learnt
- 5) Ideaz Board

-----Status Sending in Email Format -----

To : scrummaster-mail-id  
cc : sbiproject@tcs.com

Subject : Standup Call Status - Ashok

Hi Steve,

Today i can't join our standup call due to doctor appointment.

Please find my status below

yesterday : FP-1 completed, status changed to DONE.

today : I have started working on FP-2, targeted for Tomorrow EOD.

I don't have any issues.

Thanks,  
Ashok.

----- Email Request For DevOps team -----

To : sbidevops@tcs.com

cc: sbiproject@tcs.com

Subject : New Git Repo creation Request | FP-1

Hi,

Please create new git repo for our admin API development

Repo Name : admin\_API\_REPO

@Manager - Please approve.

Thanks,  
Ashok.

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To : devops@oracle.com

cc: flipkartproject@oracle.com

Subject : Jenkins Pipeline Creation Request | FP-2

Body:

Hi DevOps Team,

Please create Jenkins Pipeline for Admin API deployment in below Environments.

- 1) DEV
- 2) QA
- 3) UAT

GIT Repo : <url>

@Manager : Please approve

Thanks,  
Ashok.

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JIRA  
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-> JIRA software developed by Atlassian company

-> JIRA is used for Project management.

-> JIRA is also used for Bug reporting.

-> Project Task assignment will happen in JIRA s/w only

Note: JIRA is a paid software. We can use trial version of JIRA.

URL to Loing : <https://start.atlassian.com/>

- 1) What is SDLC ?
- 2) What are SDLC phases ?
- 3) Waterfall Methodology
- 4) Agile Methodology
- 5) Agile Terminology
- 6) What is JIRA ?
- 7) What is Backlog ?
- 8) Who will create Story in Backlog ?
- 9) What is Story Point ?
- 10) How to create Sprint ?
- 11) Task Assignment in JIRA
- 12) Task Status Change in JIRA
- 13) How Create Bug in JIRA ?

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Which Ticketing Tool you are using in your project ?  
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-> "Service Now" we are using as ticketing tool.

-> To send software installations requests to IT team we will create tickets using Ticketing Tool.