

Tools

① Agile Board - JIRA (Project Management)

② Git

③ GitHub/Bitbucket

④ Code Editor - VSCode

⑤ WSL (Windows Subsystem for Linux)

* Git SCM

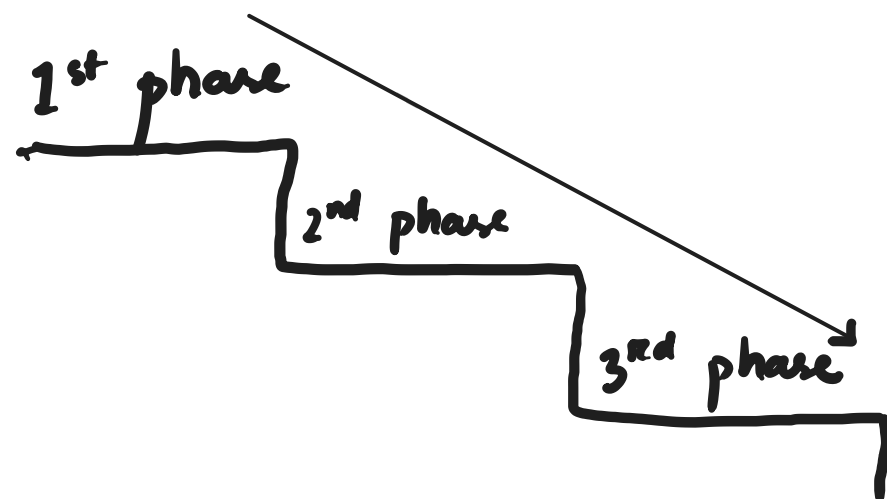
* Visual Studio Code

* WSL

* Agile Methodology

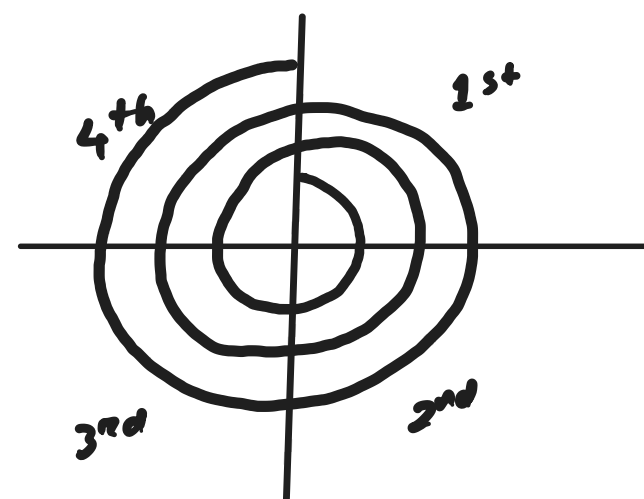
→ SDLC Model = Software Development Lifecycle Model

→ 1st SDLC model = Waterfall Model



Iterative Waterfall Model

→ Spiral Model



→ Prototype Model

→ RAD Model

→ Agile Methodology

↳ Scrum

Agile Manifesto

→ Discouraged formal pre-documentation

→ Encouraged more meetings and discussion

→ Discouraged very heavy planning before start

→ Encouraged incremental planning with some tangible deliverables periodically

MoM

→ highlights

Action Item with Responsible sign

✓ Documentation (SRS)

✓ Phases

✓ No parallel phases

How Scrum Works

Project :- Create an Amazon clone

Total time = 6 months

Sprint Duration = (1 to 4 weeks) = 2 weeks

No. of sprints = 12 sprints

① 3 sprints

Planning & Preparation

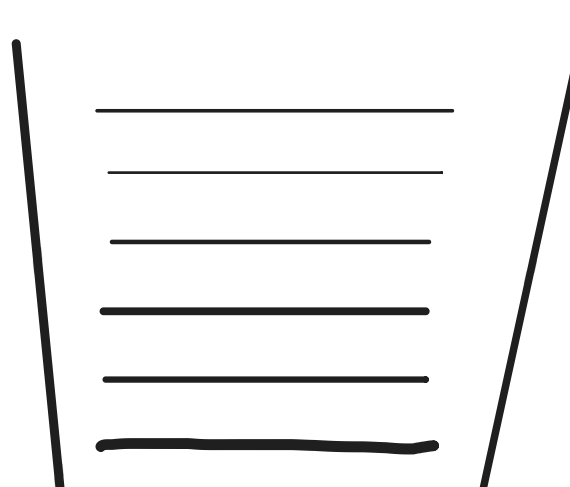
② 7 sprints

Development & Testing

③ 2 sprints

UAT & Documentation

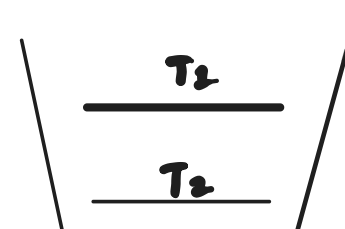
Product Backlog



Entire corpus of work

Sprint - 5

① Define the sprint backlog (subset of product backlog)



② Create user stories (sub-task)

↳ Assigned to

↳ State (Pending/In-progress/Completed)

↳ Story points (estimate of effort)

Example :- Implement the Add to Cart feature

Assigned to:- Akash

Story Points:- 12 \approx 1.5 days

Status:- Pending \rightarrow In-progress \rightarrow Completed

Work Log:-

Remarks:-

Completion Criteria:-

Scrum Master

2 weeks = 80 story points

≈ 72 story points

10% = 8 SP = buffer

Sprint Retrospective Meeting

i) Completed on time

ii) Late X

iii) Early X