**SDLC**

Initiate, Plan : brainstorm, get the problem statement

Requirement gathering

Design

Develop

test

Deploy and Maintenance

ECommerce website

Requitement gathering and analysis: proj manager and business analysts setup meeting with customer gather all information and document it in SRS format

Software requirement specification

Understood by developers and will be needed by customer for future reference

Design : basic architecture is designed with the inputs from SRS

Developers: translate the design into code

Test: Test if the app works properly, any bugs and inform the dev

Deploy and maintain: the prod is launched and if there are any new updates the sustem undergoes maintenance

Models

* Waterfall , discipline – but only used by small projects with not many changes can be done later
* Iterative -
* Spiral
* Agile iterative and incremental (adaptability) red risks; team will review and realigns deliverables
* Incremental –

**Agile methodologies:**

* SCRUM; scrum master

Product backlog : user stories syntax

Sprint **planning** : rank the highest stories (1-6 weeks)

Sprint **backlog**: missing in previous sprint

Then sprint happens

Burndown chart: entire prod backlog, with the tasks that happen est time of completion, status

Spring **review** : scrum masters review

Daily : team meets scrum master; daily summary

* Kanban

Uses a board to visualize and track the tasks; to do() , in process, done

* XP(extreme programming) CI