

SDLC : Software Development Life Cycle.

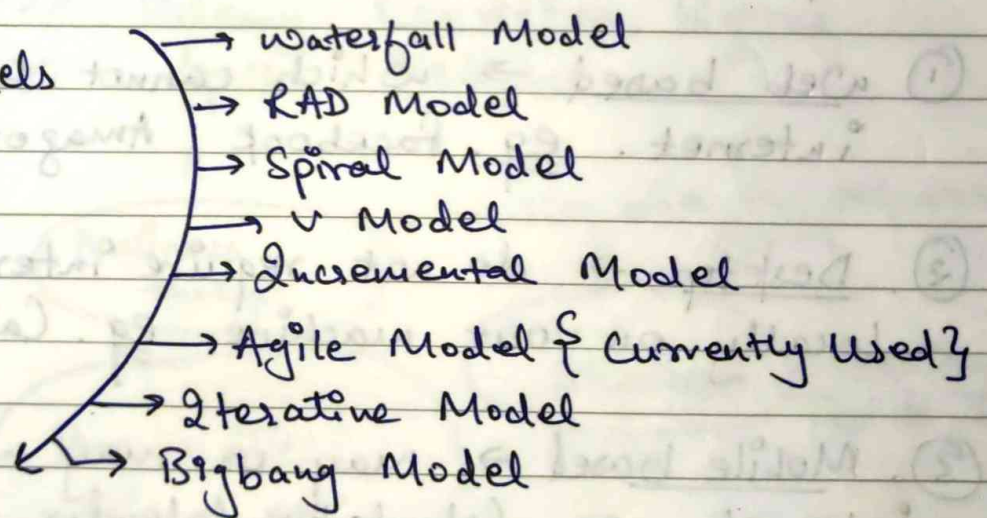
A process which include various phases that are followed to develop the s/w application.

Requirements >> Design >> Development >> Testing >> Deployment >> Maintenance.

SRS : ~~Soft~~ System Requirement Specification

Technical doc. where BA converts Business Req. Document (BRD) into SRS.

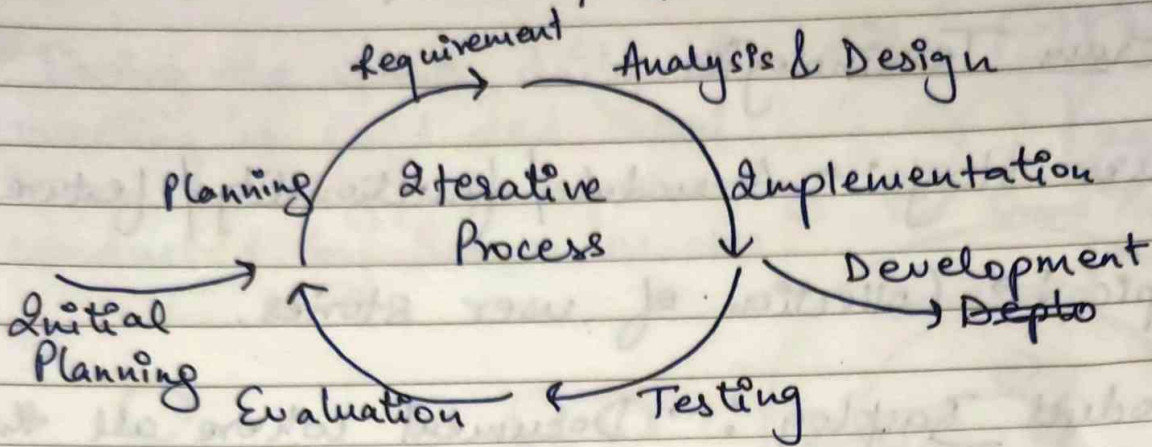
* SDLC Models



① Waterfall Model → The output of one phase will be the input to the next phase.

- Waterfall Model do not accept the requirement change. Suitable only for small projects.

②. Iterative Model / Spiral Model



- All the requirements are not implemented at once.
- Instead, we're going to implement it in a cycle or in a loop.
- Requirement changes is allowed in this model. But, we have to wait until the cycle completes.

③. Agile Model / Agile Process / Agile Methodology.

One iteration → 2 to 3 months.

Combination of iterative & incremental approach.

- Customer need not to wait for long time.
- Requirement changes allowed.

* Scrum → framework or approach which is used to follow agile principles.

1. Product owner → Gathering requirement >> client.
2. Scrum Master → responsible if the whole team is following agile principles.

3. Developing team → Coding.
4. QA team → Testing the application.

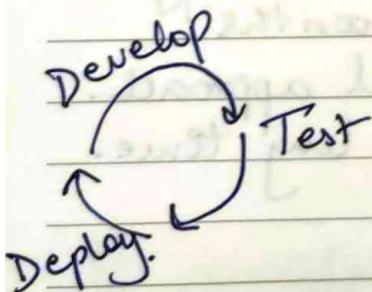
* Scrum Terminologies

1. User Story :→ A module/ functionality/ feature
2. Epic :→ Collection of user stories.
3. Product Backlog :→ Document where all the requirement we need to implement are present.
 - list of user stories.
4. Sprint Backlog :→ Consisting of committed user stories which will lead to implement in that particular "sprint". (iteration).

How many user stories are committed, ^{2-3 months} (sprint)

(4). Incremental Model

Enhanced Iterative Model.



- No refinement.
- feedback.

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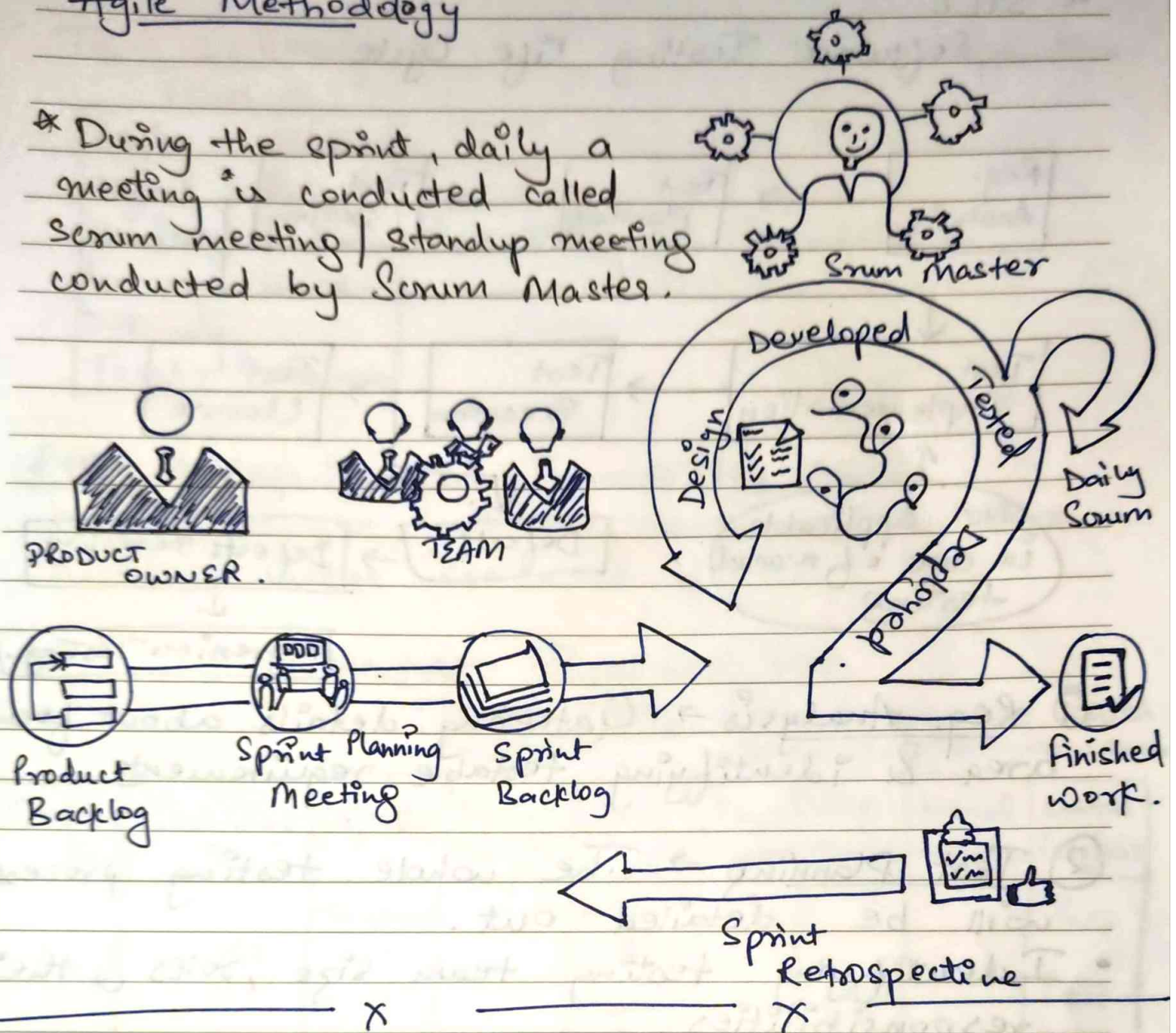
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Agile Methodology

* During the sprint, daily a meeting is conducted called Scrum meeting / Standup meeting conducted by Scrum Master.



- ① Product Owner → Finalise the user stories
- ② Product Backlog → All the user stories are present in a document called product backlog.
- ③ Sprint Backlog → list of committed user stories which will be executing for a particular sprint
- ④ Scrum Master → which look out the whole team if following the agile model.