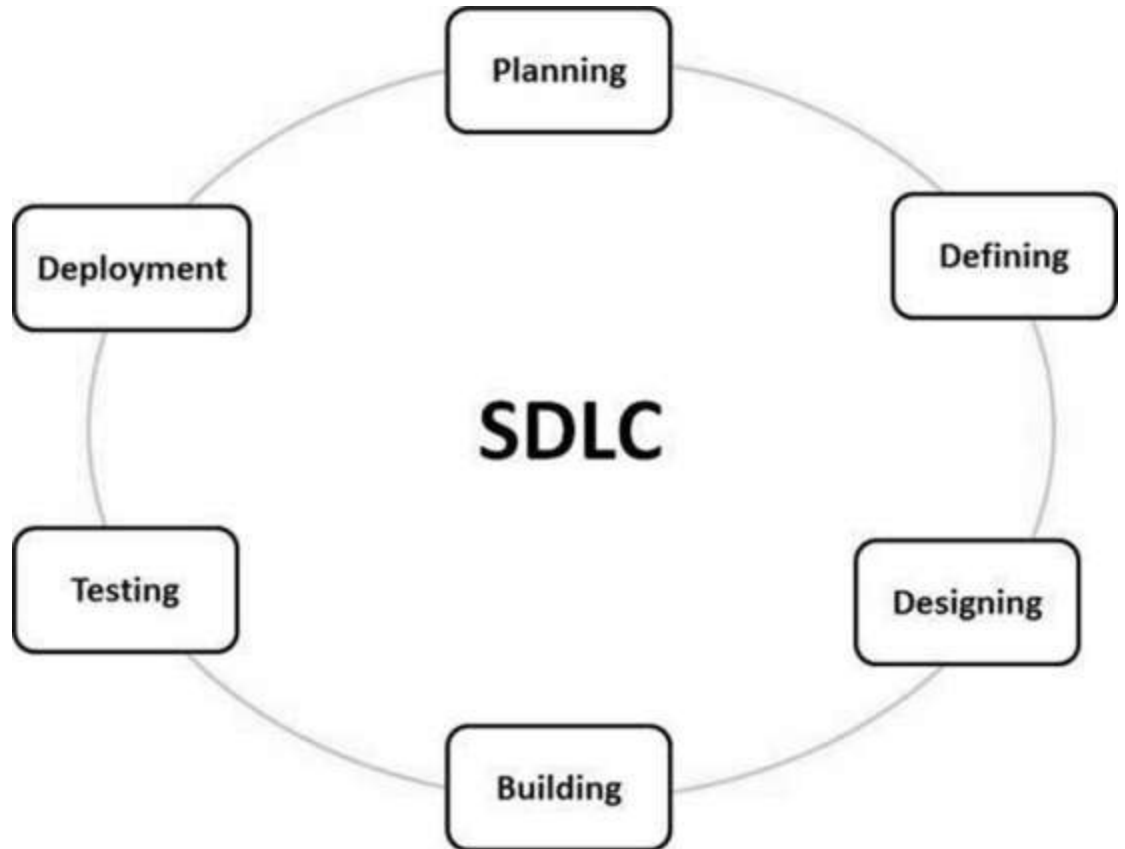


## SDLC

A process used to design, develop and test high quality softwares.



### Planning

Basically where you plan the application or development you want to do

### Designing

Designing phase, where you discuss the details of how to implement the developments/features you want to have

### Building

When you actually build out your application.

### Testing

Unit testing - make sure the components of your code works

Integration testing - make sure the components of your code work well together

User Acceptance Testing - make sure your user experience is satisfactory

## Deployment

When you actually deploy the feature/app into the public

## Types

### Big Bang

- Design?, build!, test?
- Usually used for prototypes
- Good for when you're trying to learn new languages or testing out a new feature

### Waterfall

- Highly documented
- Each step is only gone through once
- Recommended for projects where design and planning are important and iterations are not really possible maybe because its expensive
- Like software for military projects
- Rigid, not flexible, you don't really need all that documentation for regular apps

### V-Model

- AKA verification and validation model
- An extension of the waterfall model and is based on the association of a testing phase for each corresponding development stage
- the corresponding testing phase of the development phase is planned in parallel
- Highly tested application like software for rockets

### Agile

- Iterative model
- Not a methodology, more of a guideline
- Like an interface but for SDLCs
- It's a manifesto
- Some Values:
  - People over processes

- Flexible
- Constant communication with everyone involved
  - Stakeholders and clients
- Break up work into user stories and work on each semi independently
- fast

## Scrum

- Popular implementation of the agile methodology

### Phases:

#### Sprint Planning

- When you take user stories and assign points to them
- Points are the estimated amount of effort it would take to accomplish a user story
- Usually limited with a capacity - the number of work hours you have

#### Sprint

- The time you actually work on your user stories
- You take a bunch of user stories and you work on them
- Usually lasts 2-6 weeks
- The whole team is on the same sprint
- Frequent scrum meetings
  - aka standup
  - Daily
  - 3 parts: what you've worked on, what you're planning to work on, any blockers
  - Stand up as an incentive to sit back down again
  - Led by a scrum master/team lead

#### Sprint Review

- Review the doneness of your increment
- Verify increment against the definition of done and acceptance criteria

#### Sprint Retrospective

- Review what happened in the last sprint
- Take a look at your burndown chart
- Evaluate your velocity - how many points finished in the last sprint

### Artifacts:

#### Burndown chart

- Tracks your progress throughout the sprint

#### Project board

- Source of truth about the big picture of the development process
- Maintained by the scrum master

## YOLO Development

- **Patent pending**
- Not an actual (recognized) development methodology
- Actual development process is like in big bang but it makes it into production
- Only has one iteration like in waterfall
- Not really documented
- Flexible(?) to changing requirements like agile
- All about taking requirements (if it exists) from product owner/ project manager and coming up with something to show on project presentation
  - Requirements are very open to interpretation
  - All about the developer showcasing their creativity by coming up with their own implementation following the requirements
- Most apps developed under YOLO development are made once, released, and never updated
- Start (Some sort of requirements) >>>>>Start panicking>>>>>Panic (Rechecking the requirements, refactoring the code) >>>>>>>Panic some more>>>>>>>End (Some sort of MVP, released to production)