DevOps

-> It is not a technology
-> It is a methodology

SDLC
↓
Roles ⌐

Development Team

Plan → projects
↓   ↓
      resources
         ↓
       testers
         ↓
     developers
         ↓
       time to
     Completion

Code
↓

Java
Python
↓
developer

language
depending
upon
project

Build
↓
Testing
↓
Selenium

Execution

Selenium
Whether it is working/not

Operations Teams

Deploy → Process of
         Installing
↓   web
Operations application
           ↓
           web
          servers

Monitoring
↓
How is it running

Configuration
↓
Managing
↓
Merloy

Manage
↓
Update
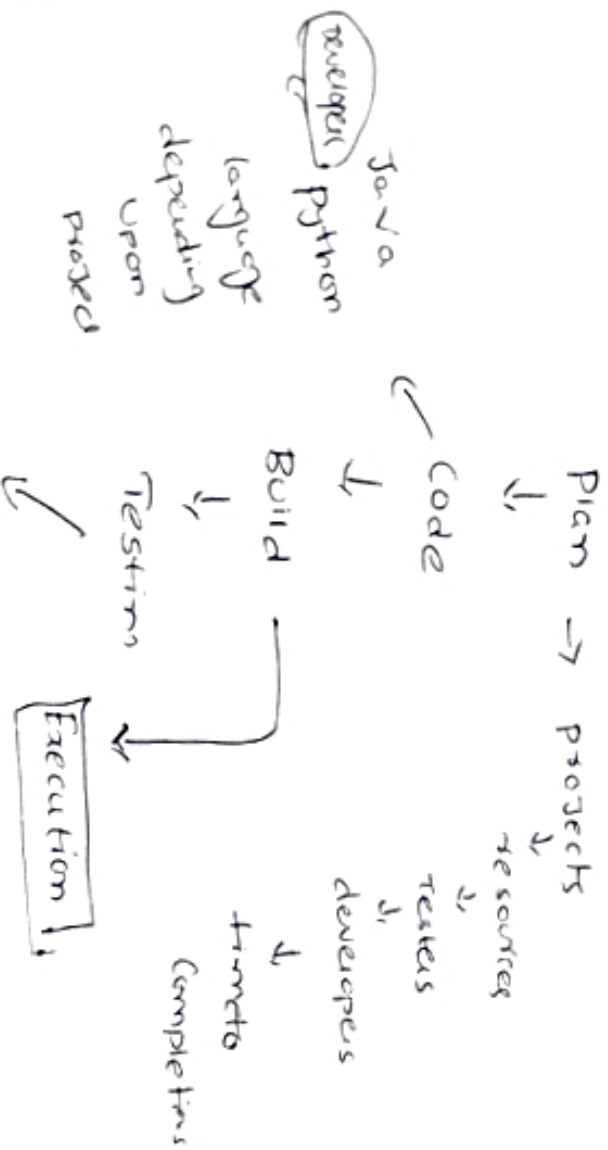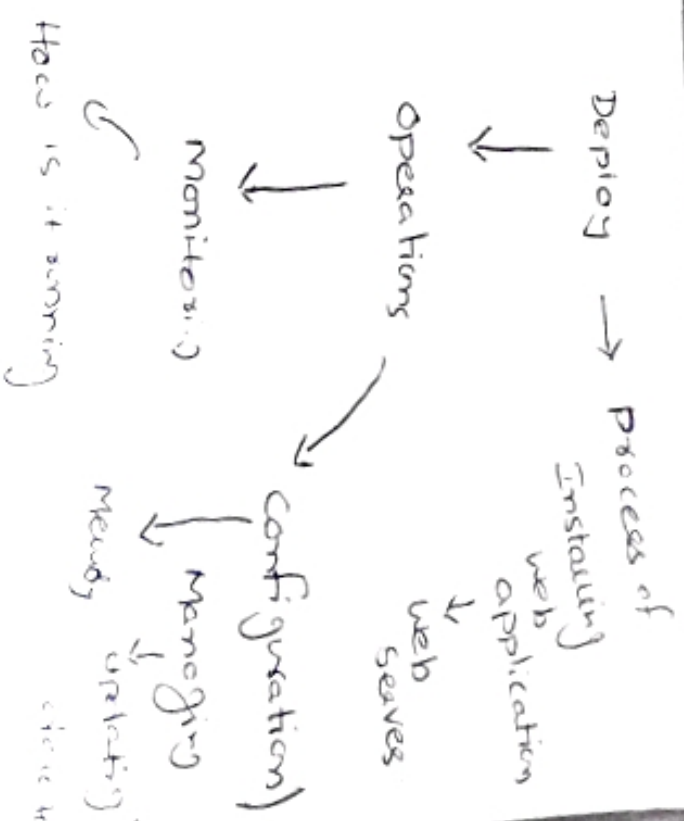
Before deveops

(a) waterfall methodology
↓
Sequential development process
that flows like a waterfall
through all phases of a project
↓
Analysis
design
development
testing etc. with each
Phase completely wrapping up
before next phase begins

Advantages
① Simple & easy to understand
② Easy to manage due to rigidity of model
③ phases are processed & completed one at a time
④ works well for smaller projects where
requirements are very well understood.

Model

Requirement
↓
Design → Architecture   Coding
↓
Implementation
↓
Verification
↓
Maintenance

object
oriented projects
Real world e'm
love with object
entity

Disadvantage
① you cannot go back to step
③ Not a good model for complex
projects (E) object oriented pork
⑤ High amount of risk (E) uncertaind

Agile Methodology

① It is a practise that promotes continous iteration of development and testing throughout SDLC of project.

② Both development and testing activities are concurrent.

③ Time-line of project is fixed
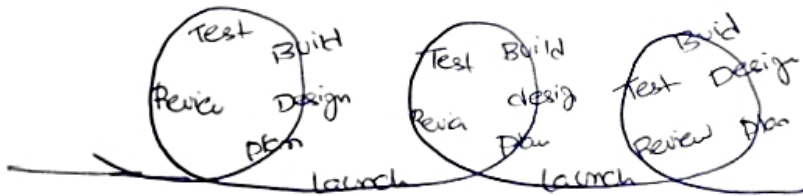
Disadvantage

ⓐ Not effective for smaller project

ⓑ Expensive

ⓒ Needs Experience Member to be involved

ⓓ Replacement of team mate is not easy

Scrum → Scrum is a Sub-group of Agile

It is a framework that
helps teams work together

→ Set of meetings, tools &
roles that work to help
team structure and manage
their work

6 Principles

1. Control over project
2. Self organization
3. Collaboration
4. Value - based prioritization
5. Time Boxing
6. Iterative development

Process

Planning

Sprint cycle

Closure

Product Owner → Scrum Master → Scrum Team Members

DEVOPS History

→ originated in 2008

→ 2009, it was disussed b/w two people Caued
   Andrew clay & Patrick Debios

→ 2009 summit ∂^m discuss chesaru, What Comes
   of Devops coma, 2014 report Published on Devops

→ Father of Devops Patrick Debios