

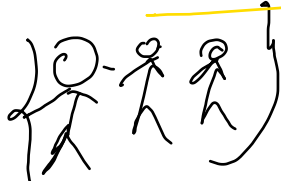
Lec-1

Learning
Devops

→ Notes

years
1996

WATER FALL MODEL



website
developers

↓ 1 year



60,000
lines of code
100+ files



I want to develop the website

Client. (e-commerce)

1 year

- ① Overall design is not satisfactory
- ② Login need to change
- ③ Signup need to change

100 changes

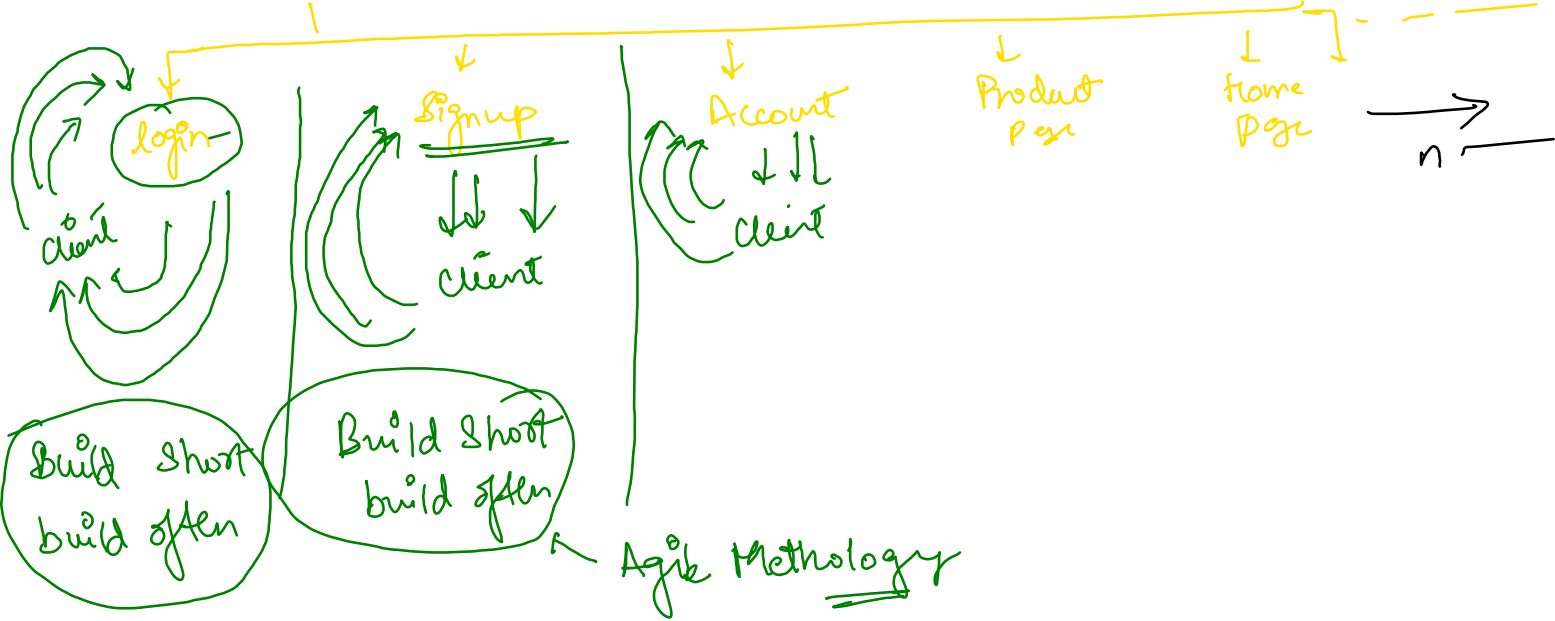
⇒ Agile Methodology → Build short, Build often

Agile Methodology

developer

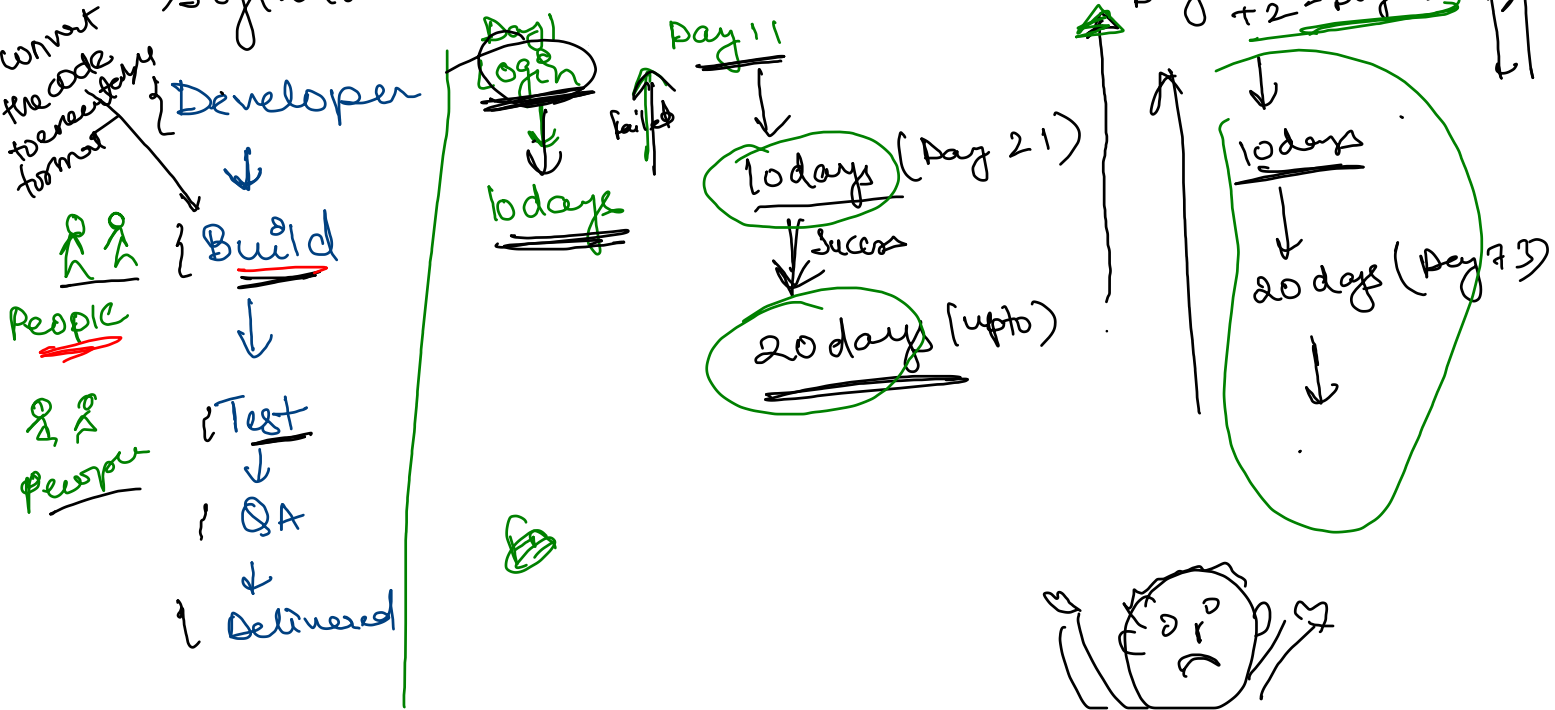
e-commerce

client



Agile Methodology (Problems)

Software development life cycle (SDLC)



Agile with Devops

SDLC

Code



Build ← Convert² the code in executable format
eg .war (in Java)



Test ← Test the functionality of
webapp

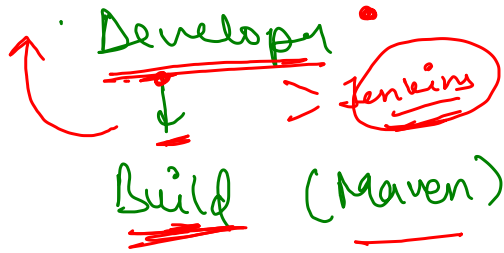


QA ← Quality Assurance } ⇒ Check the quality of the code



Delivery ← Code uploaded on test server

Agile with Devops



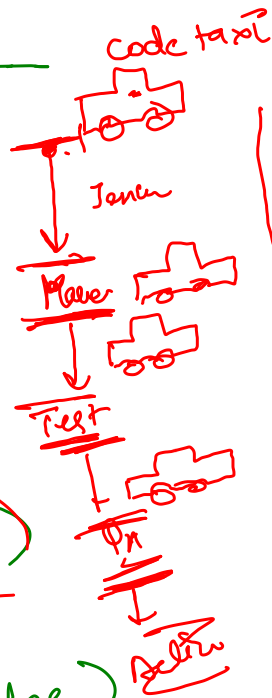
Test



QA



Delivery (AWS, Azure, GCP on prem)



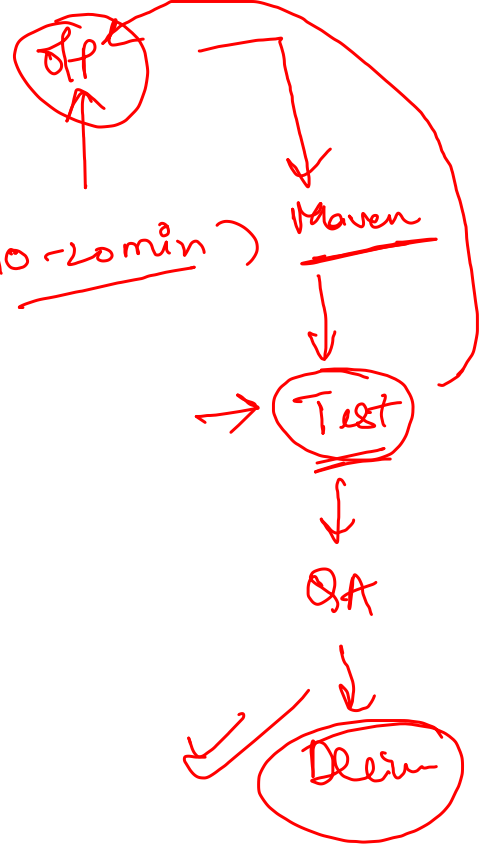
Login



Maven



(10-20 min)



Capgemini

developer

(Remote Repository)

GITHub

Build (Maven)

Test (Selenium)

QA

(Sonarqube)

Delivered (Deploy the code onto Test env)

Netflix

AWS,
azure, gcp

Developer

Test cases

Netflix

Deploy.

(Deployed the code to Prod Server)

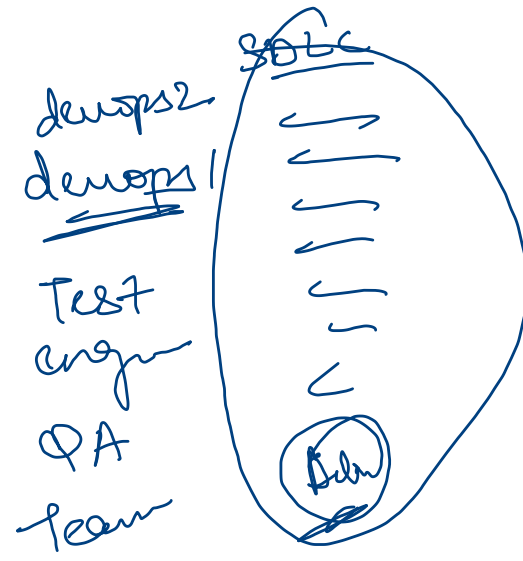
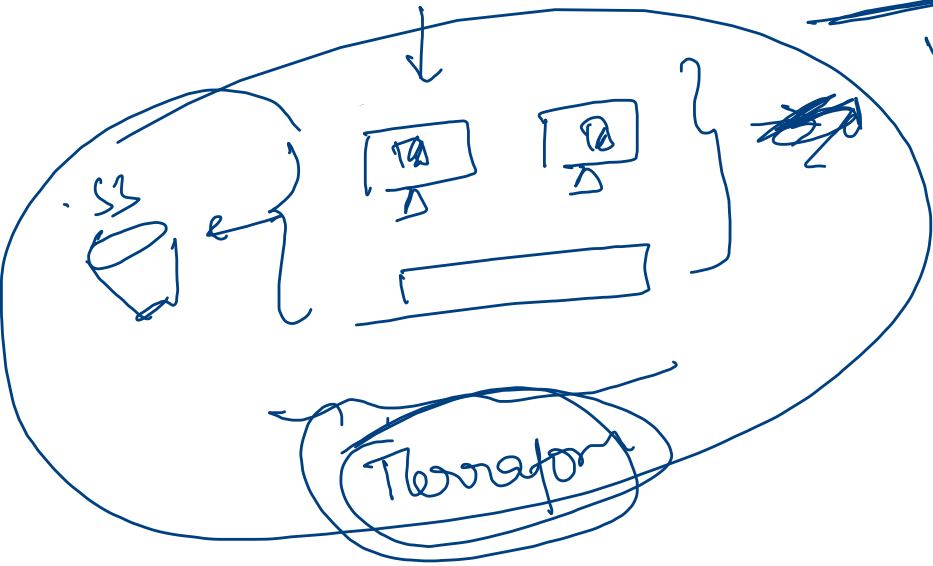
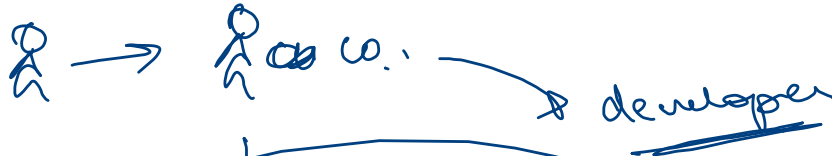
Monitoring

&
Maintenance

operation

DevOps

Project Process



Client

CI/CD ÷

(IMP for Interviews)
Very very very very
very



deploying to test
server
(Capgemini server)



← Pipelines

deploying the code to
prod server





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