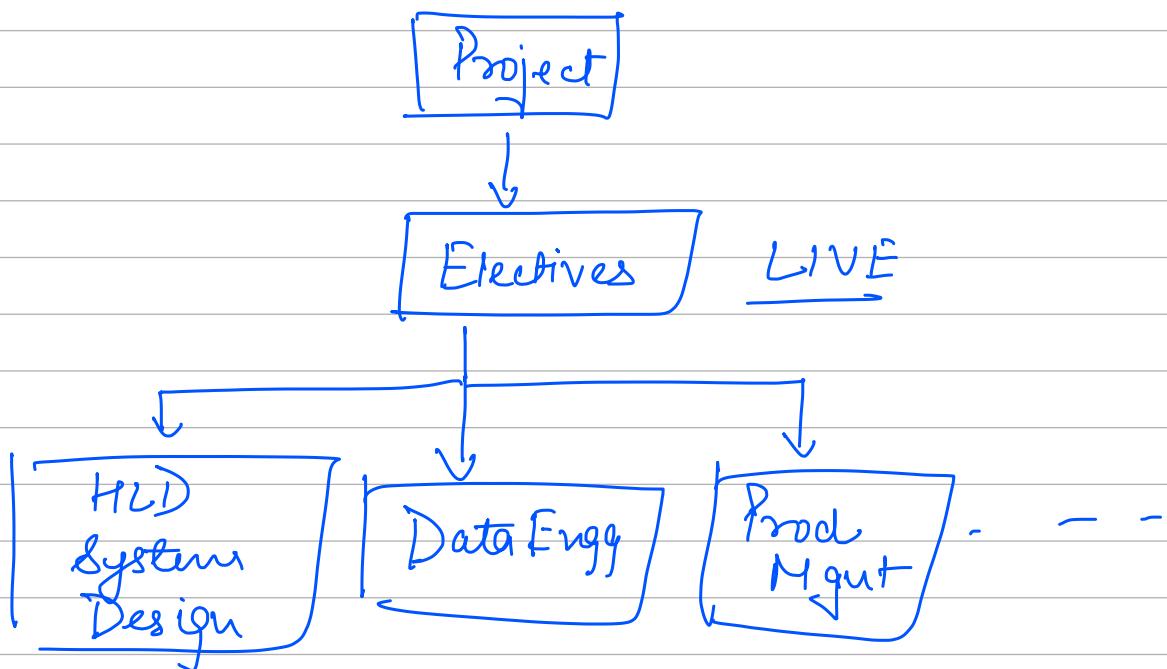
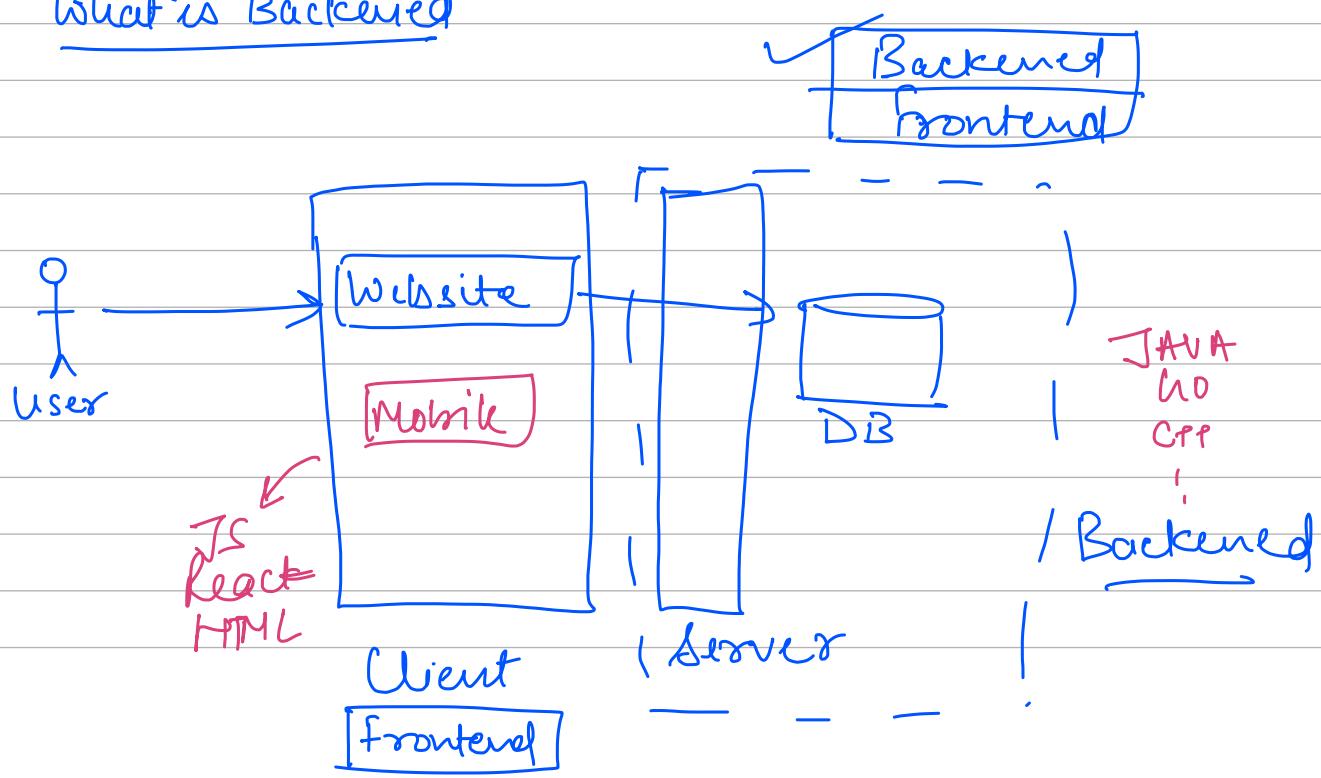


# Intro to Backend

- What is Backend
- Expectations wst this module → Ds  
→ Don'ts
- Curriculum of this Module
- Project Overview



## What is Backend



## Why UI/FE Should Not talk DB

} Signup (Name, Phone No)

- ↳ validate Name
- ↳ validate phone
- ↳ save to DB
- ↳ return

### Client

- ↳ user facing part of code runs on end user device
- ↳ never going to save data in itself
- ↳ clients should be as dumb as possible

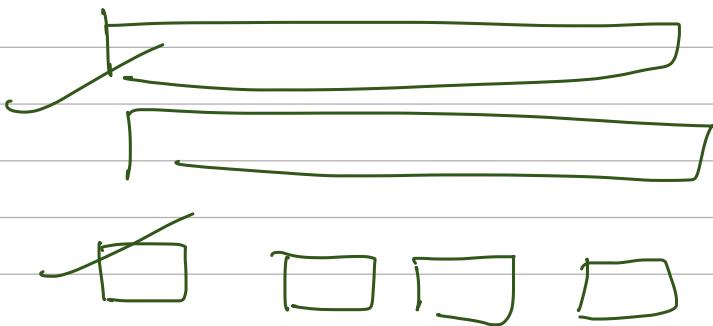
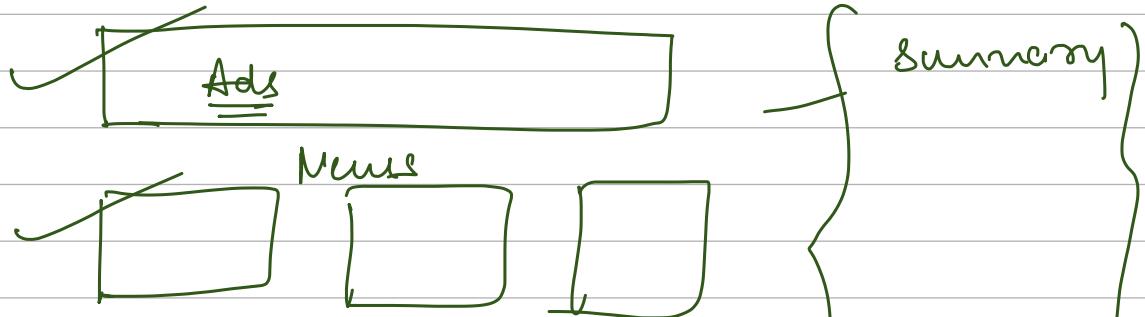
### Server

- ↳ owns the data
- ↳ the complete logic to fetch / manipulate the data are present in server
  - ↳ logic is very complex

### Backended

- everything that can be in the server
- ↓
  - Services - Micro
  - DB
  - Caches
  - ES (Elastic indexes)
  - Queues

Google



## Expectations wst Module

- ① Get a project in your resume that demonstrates to your potential Employer to be productive from day zero

→ MNCs  
→ Startups

- ② Teaching you best practices around common pitfalls of software engineer

## DO's

1) Understand how real devs look like

↳ Involve a lot of reading

+ a lot of figuring out

2) Teach about common tools, that are going to help you become better dev

↳ Postman

↳ Redis

↳ CI/CD

↳ Stackoverflow

↳ AWS

↳ Kubernetes

↳ Kafka

3) Get a resume worthy project built by all of you

↳ Ensure all of this is on GitHub

↳ Write the code

↳ H/W



How to mention this project in the resume.

4) get you to work with some adv infra layers

{ + Kafka → NOSQL → ES } What it is  
{ + Redis → SQL } How to use it

5) Best Practices

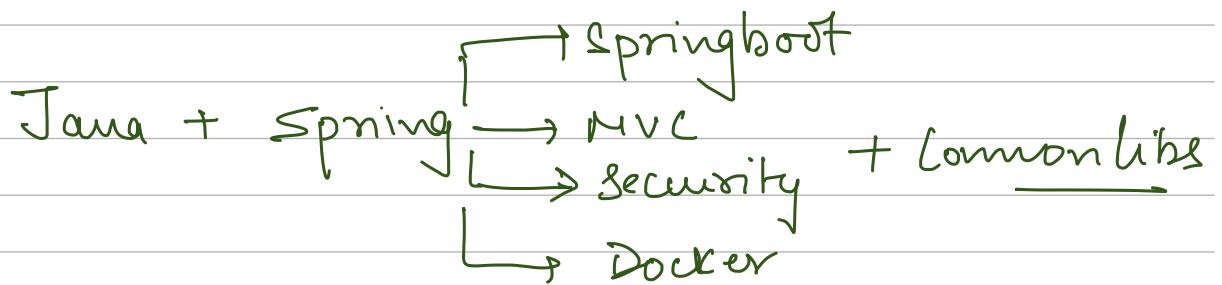
## DON'TS

1) NO Spoonfeeding  $\Rightarrow$  we will ensure that you are not lost

Read | Implement

2) No Memorisation

↳ Reading



85% JAVA  
10% Python  
5% .Net-C++ Go--

## Curriculum (6 weeks)

1) Foundational Concepts

$\rightarrow$  GIT

$\rightarrow$  DevSetup

$\rightarrow$  Commandline

]15%

2) Project

$\rightarrow$  Setting Codebase

$\rightarrow$  Implement APIs

$\rightarrow$  Talk to 3rd Party APIs

→ Connecting to DB

→ Common features → AWS  
→ searching

→ Unit testing

### 3) Adv Concepts

- Kafka
- Redis
- MongoDB
- Microservices

- }      ① Basic idea of systems  
          ② Getting you to use those systems

↓  
Adv Concepts in ML

### 4) Deployment

- AWS
- CI/CD
- Docker / kub

TODO

1) Go through Project Doc

2) Fill out the GitHub form by 27th Sep 6:00 PM

3) If you are someone with more than 3 months

FT | BE | SWE consider moving int-adv

support@scaler.com

harman@scaler.com

If you ever implemented or talked  
to 3rd Party API

