

Will Start at 4:10

## Project Module

Agenda: Module Overview.

① WhatsApp Group link  
and

GitHub Student Dev Pack

② What is Backend  $\Leftarrow$

③ Expectation from learners  
wrt this module

④ Curriculum of Module

Naman Bhalra

Lead Non-DSA Curriculum

SQi, LLD, HLD, Project

Ex- Google, Curric

This module is 99%  
independent of all  
prior modules at  
Scale.

GitHub Student Dev Pack

- GitHub Copilot (AI for Coding)
- All JetBrains IDEs (IntelliJ,

Dotagrip, CLion,

Pycharm)

(prev. tech)

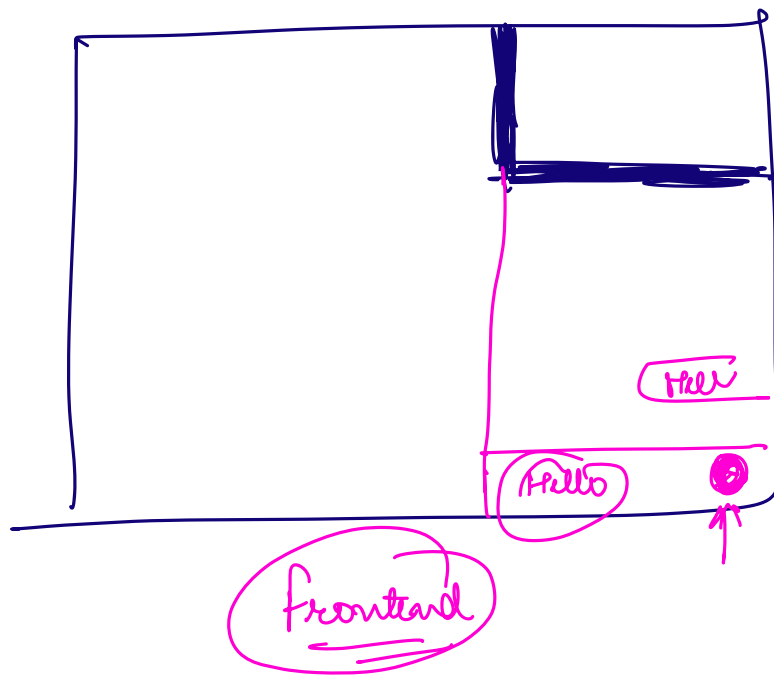
- 3 domain names for free

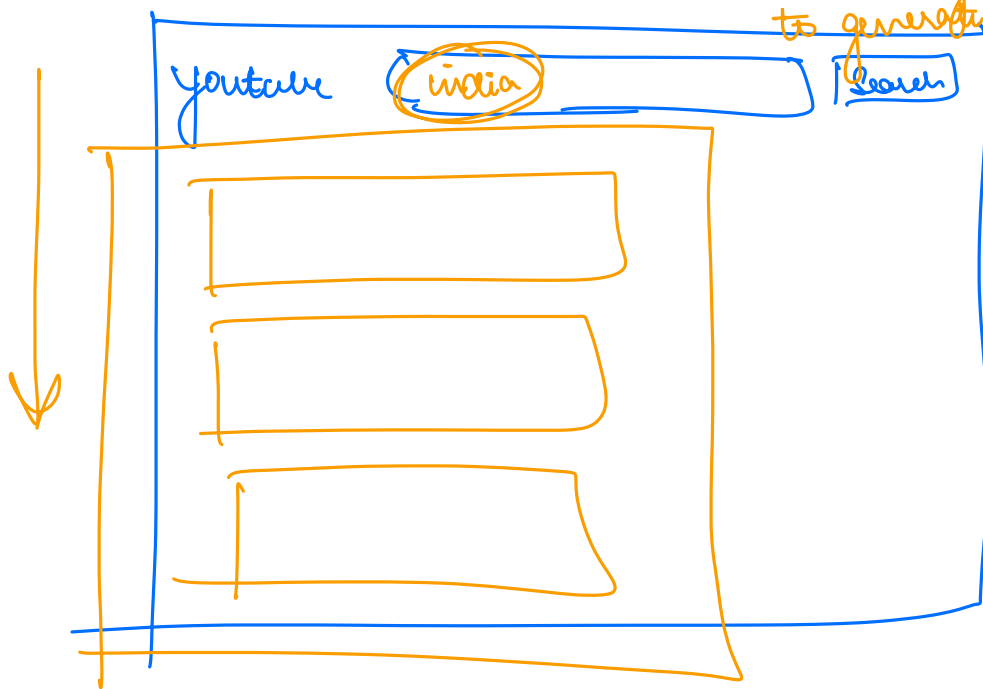
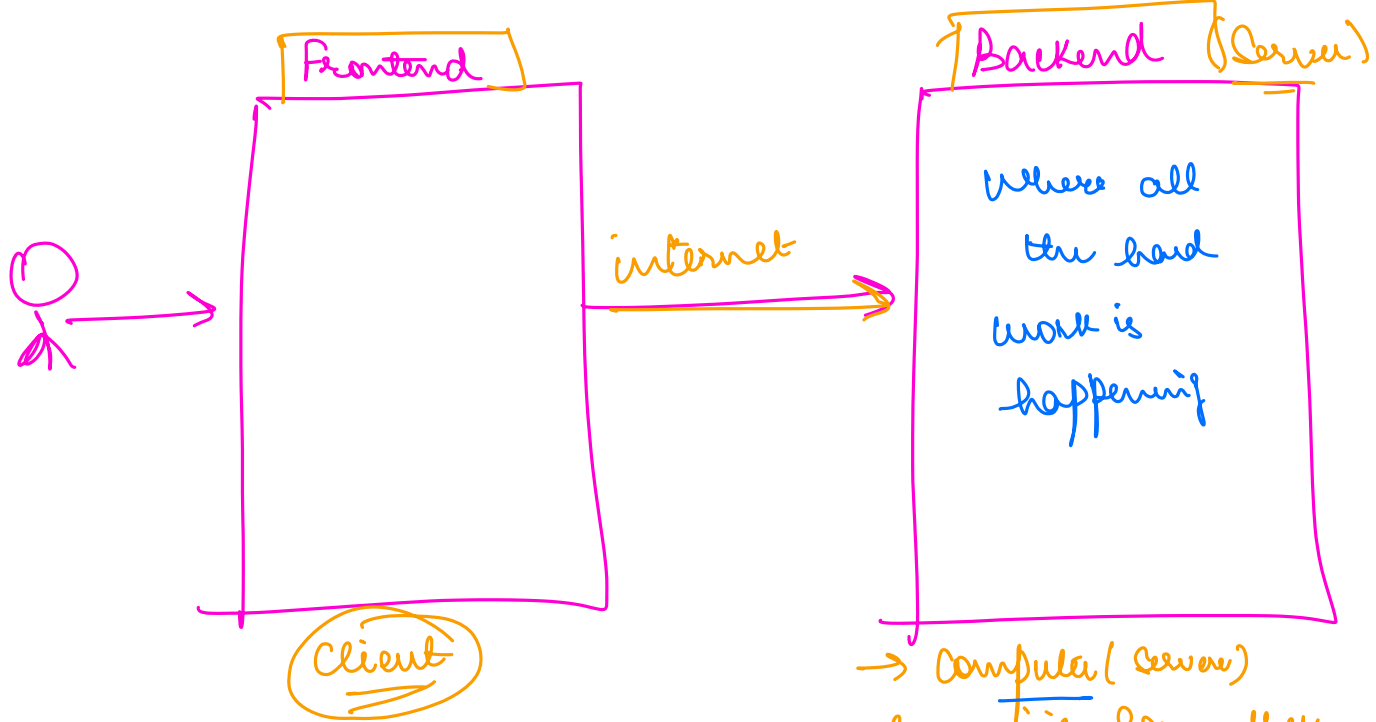
- Cloud credits for
  - MS Azure
  - Digital Ocean

H/W

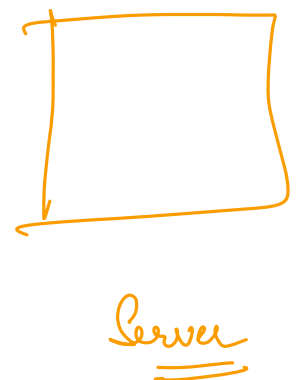
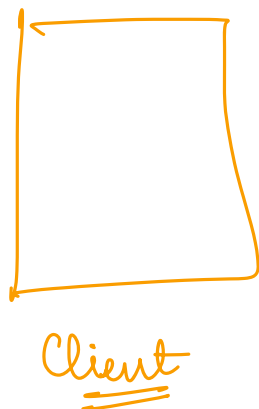
- ① Join WhatsApp group
- ② Fill form to get access to Github Student Dev Pack

What is Backend





User

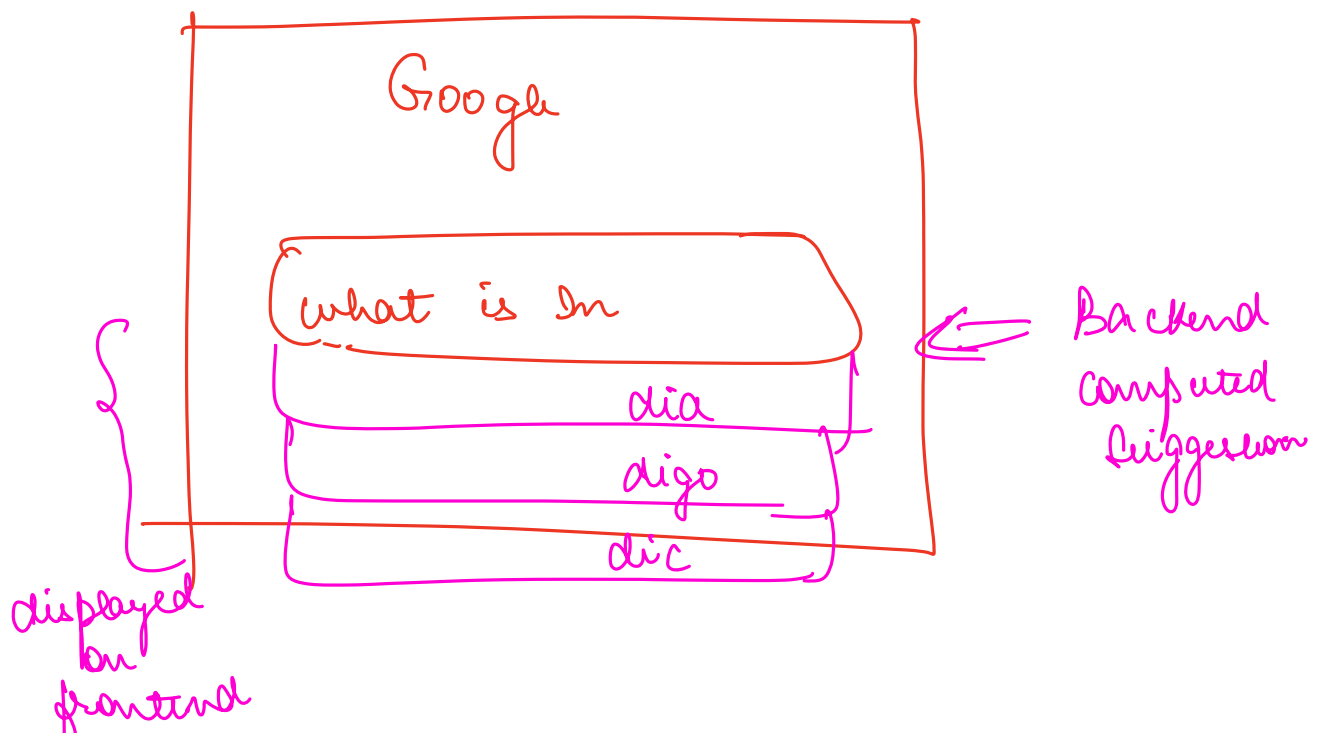
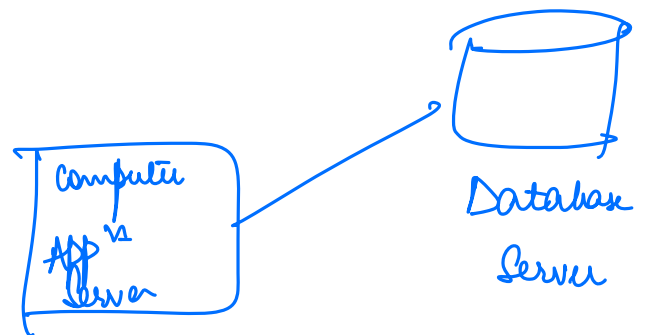


## Client

- user facing part.
- requests / create data from/to backend.
- websites / app<sup>n</sup> / Smartwatch / Alexa.

## Server

- owns the data (data is stored here)
- logics are run to do the work that a client needs.



⇒ Backend Project  
Fullstack Project

= { You will get recording  
of complete fullstack  
CWS 1, 2, 3, 4 post the  
completion of this module  
HTML/CSS/JS/React/  
NodeJS

## Expectations wrt Backend Module

Why this Module

① Get technically complex and comprehensive  
project created that can be put in your  
resume to improve your resume clearance  
rate

= { ⇒ Not imp for int/adv people.  
⇒ imp for freshers (people who have 0  
SWE experience)  
↳ tech-adjacent  
↳ in college

② Teach best practices around common pitfalls that SWE do.

- Security
- auth
- Payment gateway
- working with DB
- unit testing
- APIs

⇒ to increase the chance of you to clear interview.

→ imp for everyone.

"figure out"  
⇒ knowing how to learn

DO

- ① Understand how real SWE works like.
- ② Teach you how to learn and figure out.
- ③ Common tools, nuances, concepts that will help you become a better eng.
- ④ get you to work on adv infra layers.  
(Kafka, ES, Redis, SQL)

DON'T

① Spooned you

→ post class reading  
→ post class assign<sup>ment</sup>

② Memoization

# Curriculum of Module

## ① Foundations

→ Git  
→ Dev Env Setup

Most Imp

→ IDE  
→ DB (MySQL)  
→ Command Line

## ② Project

→ Spring Boot

→ APIs

→ Databases and ORM

→ Authentication ⇒ User Service

→ Unit Testing

→ Paging and Sorting

2-3  
classes  
per  
concept

## ③ Deployment

→ AWS

→ CI/CD

→ Docker and Kubernetes

→ Logging and Monitoring

EC2 → IAM

EBS

ECS

## ④ Adv Concepts

→ Kafka

→ Redis



→ Elastic Search

≈ 24 classes

→ NO classes from Dec 23  
to 1st Jan

Build an Ecommerce Website Clone

like Flipkart

→ Java and Spring Boot

→ recording of  
Project Module  
Python

→ can implement in  
Python + Django

Archived Section by Wed Morning

naman @ Scaler.com  
Support @ Scaler.com