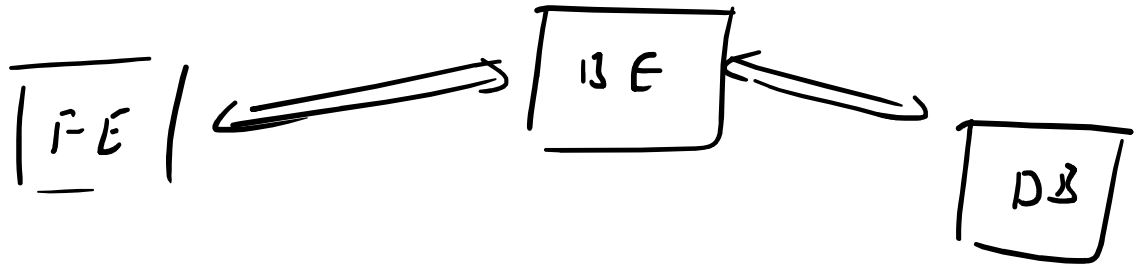2025-09-10 - Design enterprise-level applications using Spring Boot, incorporating RESTful APIs, dependency injection, and microservices principles.
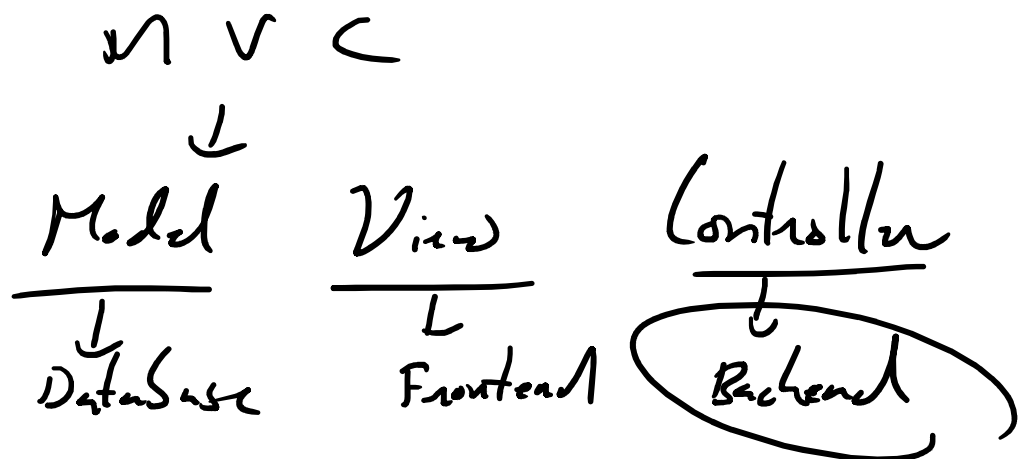
10 September 2025 08:19

→ Module 6 : Spring (Backend)

=> 3 - tier System

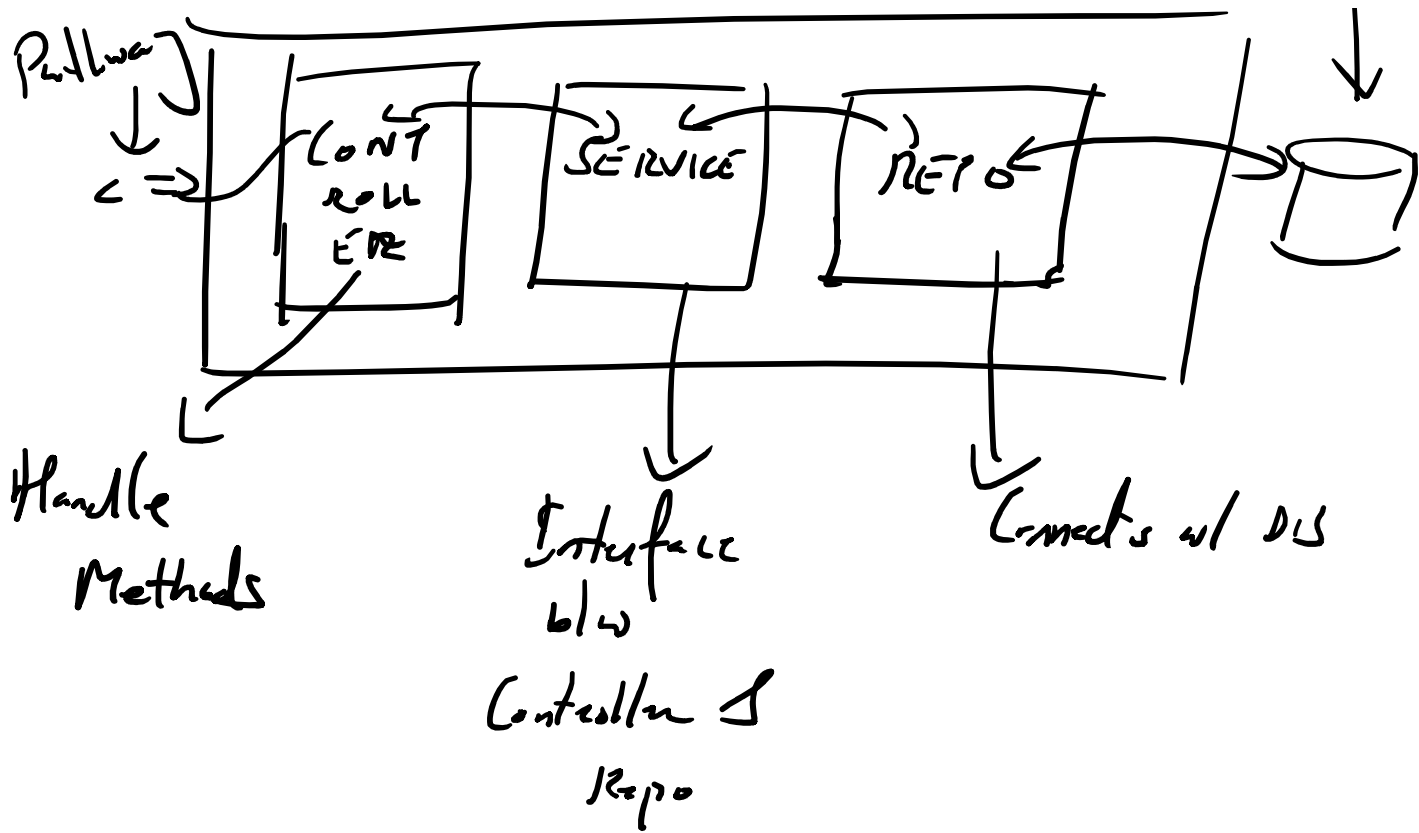FE ⇄ BE ⇄ DB

=> Backend (Business Logic)

M V C
↓
Model   View   Controller
↓   ↓   ↓
Database   Frontend (Backend)

=> API - Application Programming Interface

C   R   U   D
↓   ↓   ↓   ↓
Create Retrieve Update Delete

Create   Retrieve   Update   Delete

$\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$

POST   GET   PUT   DELETE

HTTP Methods

=> Spring Boot   => I.C

Inversion Of Control

=> Packaging System:

Maven / Gradle

=> Spring - Boot :

H2 / Postgres

Pathway

Pathway

Handle
Methods

Interface
b/w

Controller &
Repo

Connects w/ DB

=> Tight & Loose Coupling :

  (a) Controller ≈ @Rest Controller

  (b) Service

  (c) Repository

=> Job Finder

id (Int)
title (String)
desc (String)
qc (Int)
grade (String)
minSal (Int)
maxSal (Int)
location (String)

POST
PUT
DELETE

∂ (Job Poster)

GET → (Job Viewer)