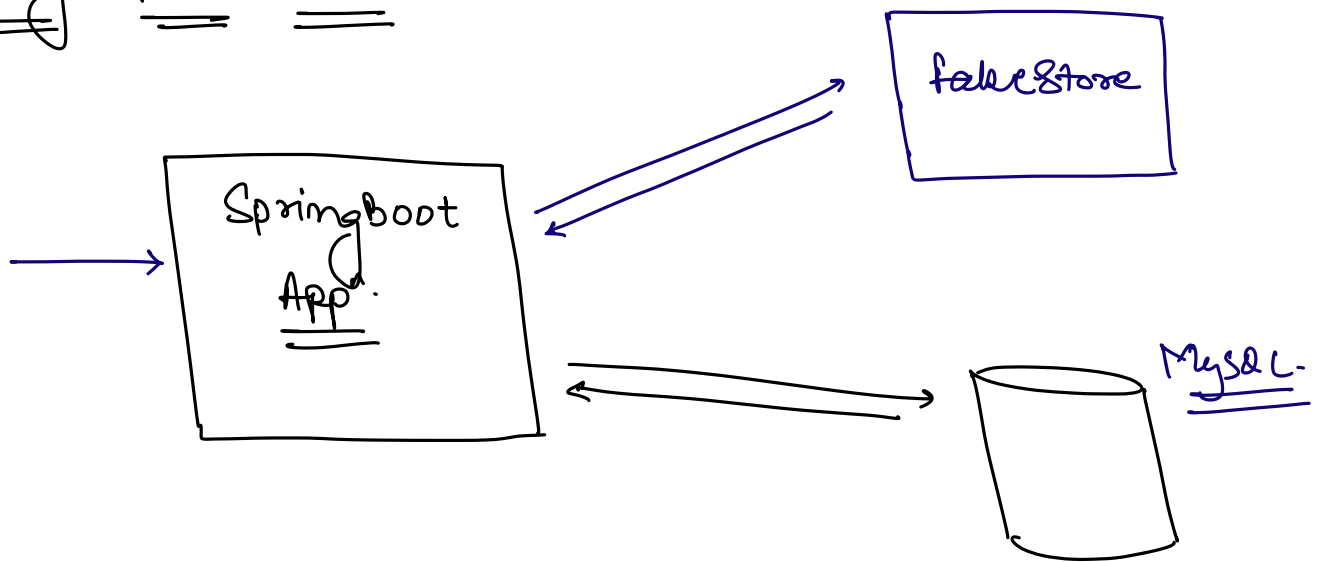


Agenda.

- Implementing Controller Advices.
- Spring Data JPA
- Hibernate
- JDBC.
- Connect Springboot Appⁿ with MySQL DB.

Spring Data JPA



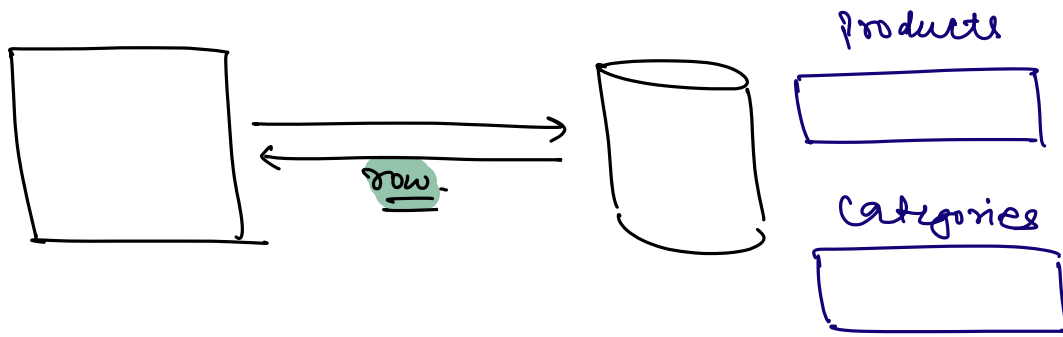
Product Model.

↳ id
title
description
price
category
image

Category Model

↳ id
 name.

⇒ CRUD operation on Model.



```
getProductById(id) {
```

```
    Database db = new Database(url, name,  
                                password);
```

```
    Row row = db.executeQuery("select * from  
                                products where id = 10;");
```

// Convert Row into Product

3

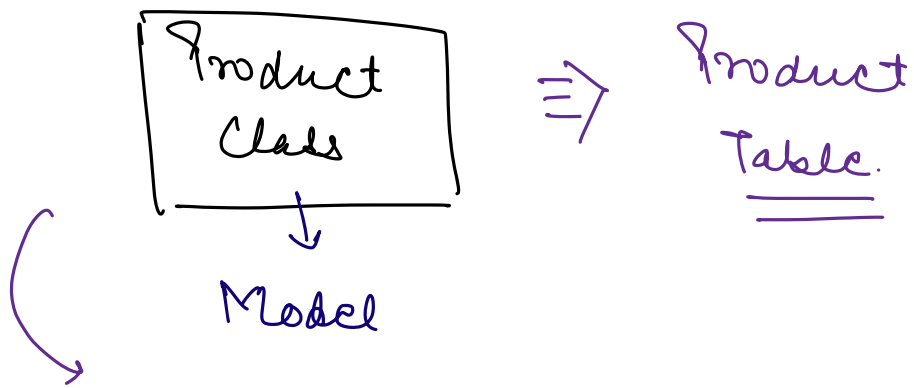
ORM.



Object ≡ Model

Relation ≡ Table.

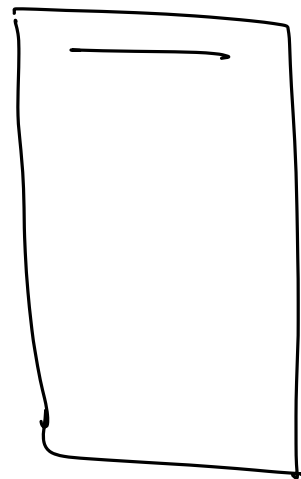
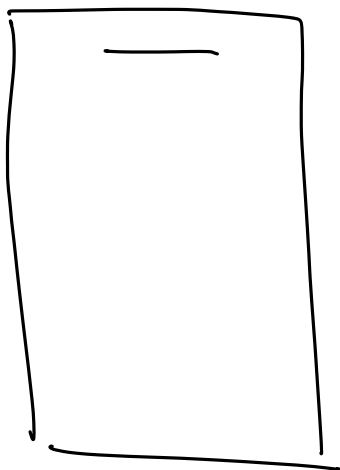
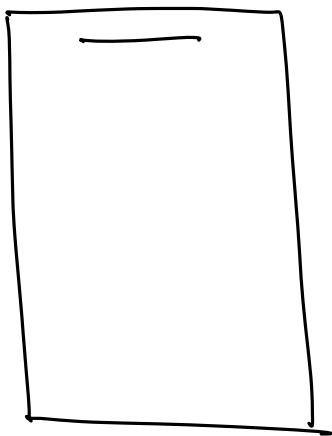
Mapping
⇒

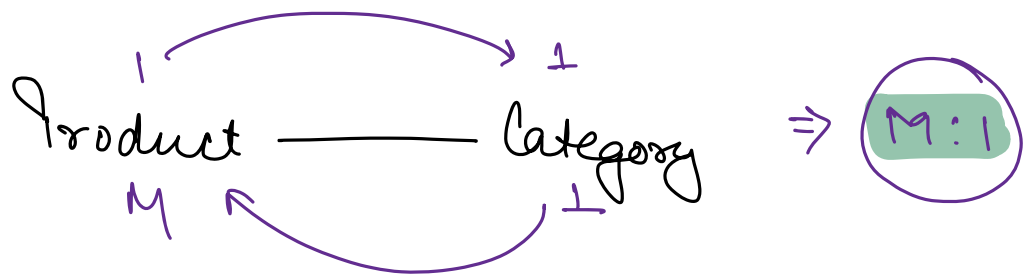


Create table producte

User Model \equiv User Table

\Rightarrow Class Diagram.





ORM libraries provides us an easy way to work with databases by creating a Mapping b/w Models & Entities.

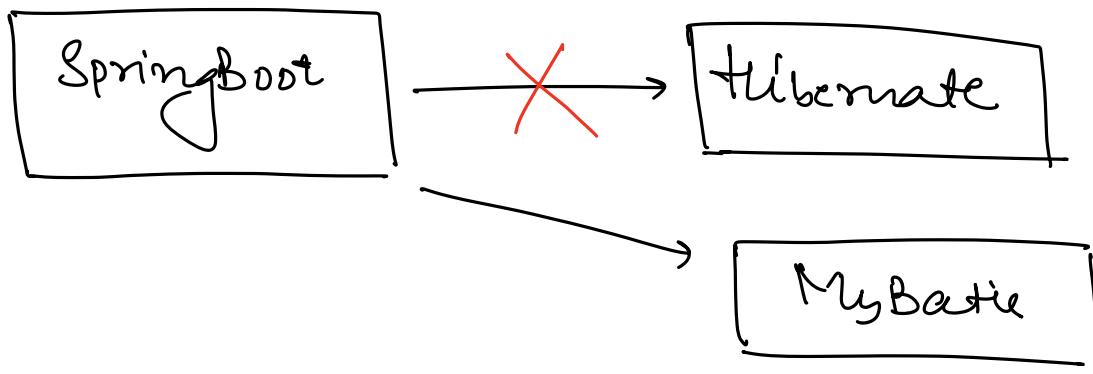
- ⇒ Automatically create table for every Model.
- ⇒ Automatically perform CRUD operations.

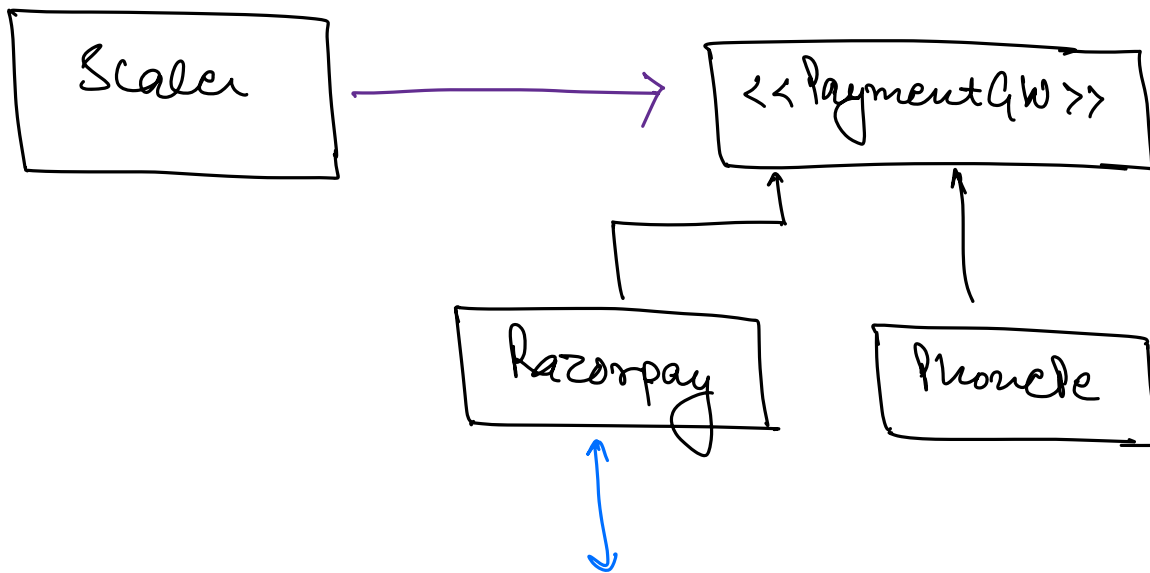
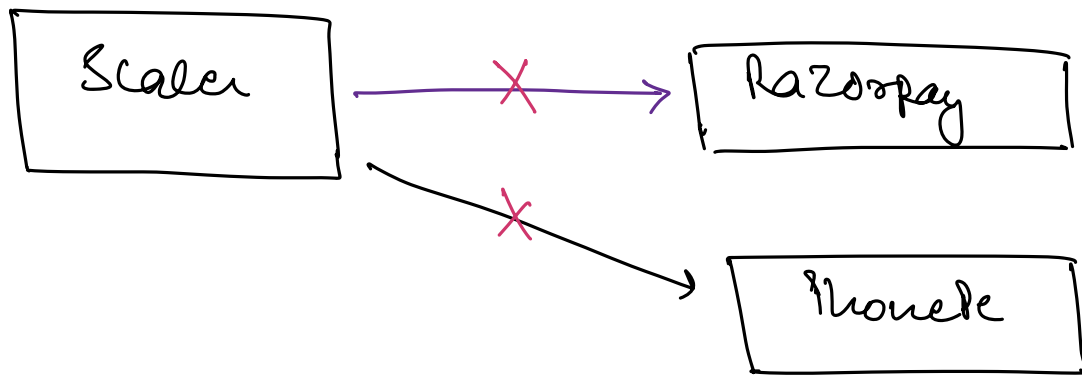
Examples of ORMs

→ Hibernate☆☆

→ MyBatis

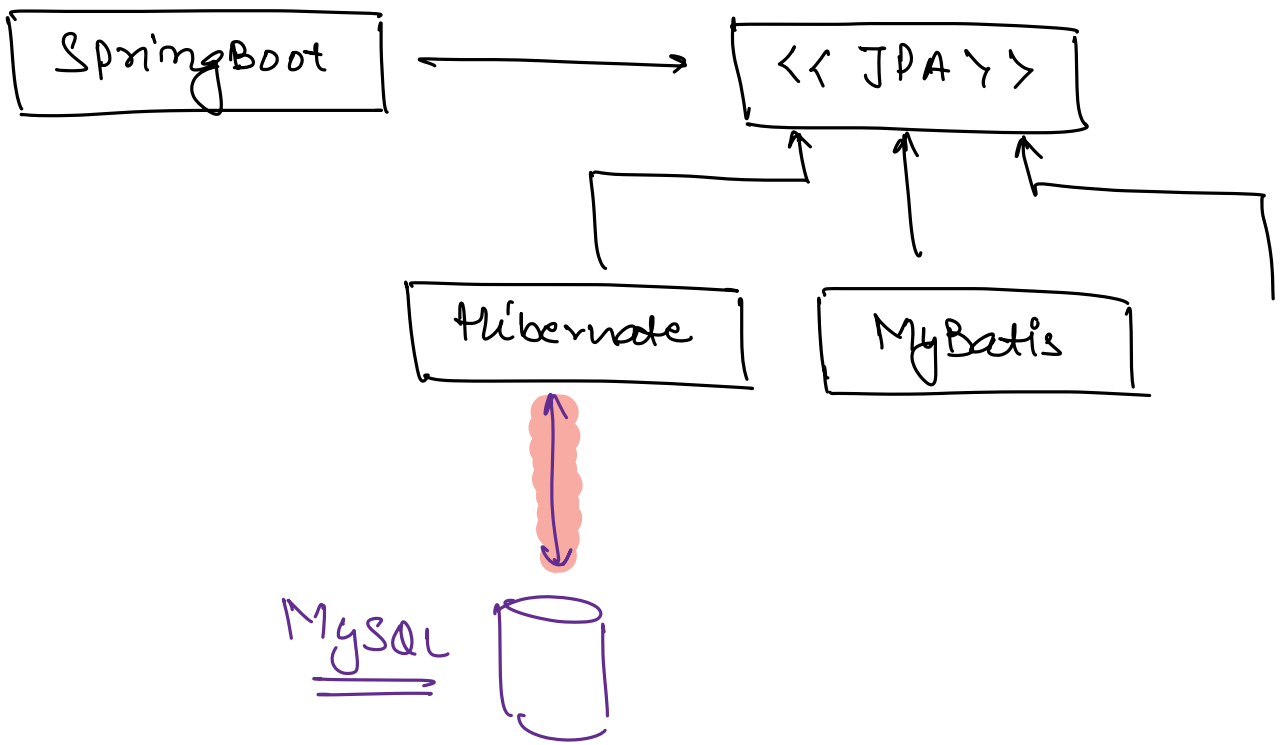
→ Jooq



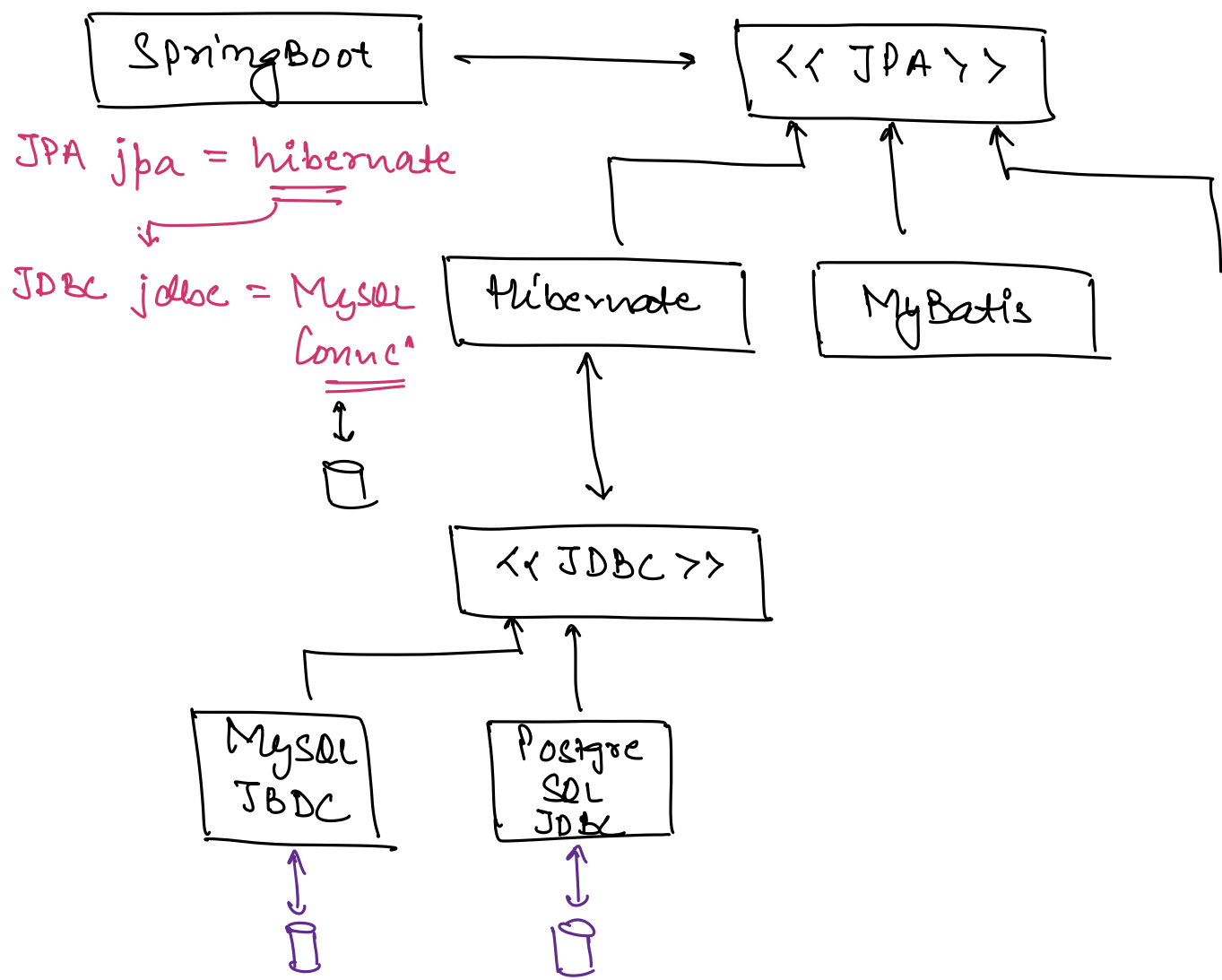


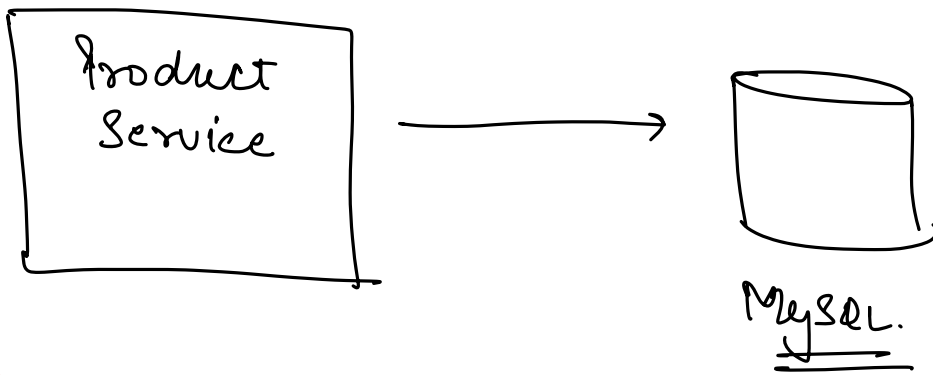
⇒ Spring Boot provides an interface to connect with ORM libraries.

⇒ JPA : Java Persistence API.



⇒ JDBC: Java DB Connector





Spring
Data
JPA:

{ → JPA
→ Hibernate

→ MySQL JDBC Driver.