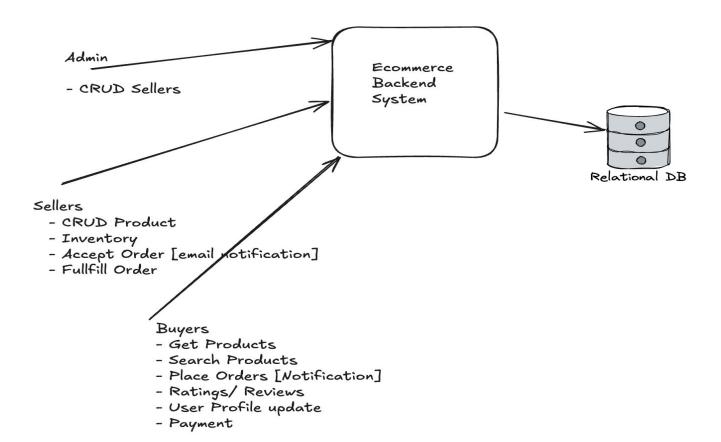
# Java Backend Development Live-85

lecture-14

# Agenda

- Minor Project-1 Completion
  - Admin APIs
  - Seller APIs
  - Customer APIs
  - Pagination
  - CSV upload
  - Image upload
  - Scheduled Job
- Run application jar
- -Xms & -Xmx Flags

# **Ecommerce Backend System**



# **Functional Requirements**

## Admin

- CRUD Sellers

## Sellers

- CRUD Products
- Accept Order
- Fulfil Order

## Buyers

- Search Products
- Add product to Order
- Place Order
- Order History
- Profiles
- Payments

## **Tables**

User (id,name, email, password, role[ADMIN, SELLER, CUSTOMER], created\_at, updated\_at)

Company (id, name, number, is\_active, user\_id, created\_at, updated\_at)

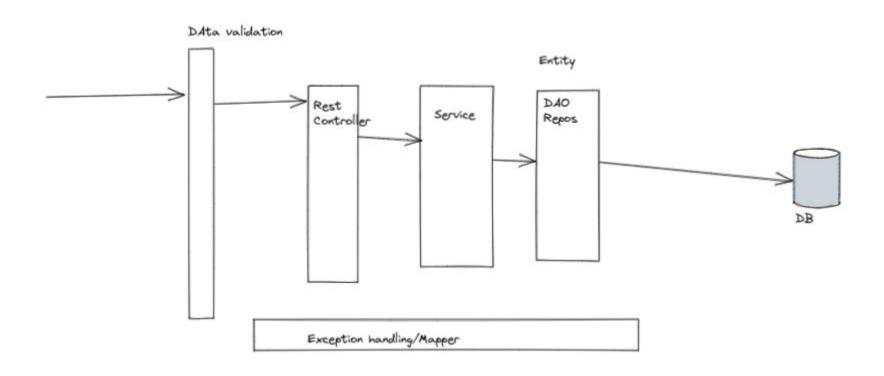
Product(id, name, description, price, stock, company\_id, is\_active, category\_id, created\_at, updated\_at)

Order (id, user\_id, total\_amount, status(DRAFT,PLACED,ACCEPTED,SHIPPED,DELIVERED), created\_at, updated\_at)

Order\_Item (id, order\_id, product\_id, quantity, price)

Category(id, name, description)

# **API** Request flow



## Admin APIs

#### Add a Seller

POST /api/admin/sellers

Request body: Seller details (e.g., name, email, phone)

Response: Seller ID or success message

### **View All Sellers**

GET /api/admin/sellers

Response: List of all sellers

### **Delete a Seller**

DELETE /api/admin/sellers/{sellerId}

Response: Success or error message

## Seller APIs

#### Add a Product

POST /api/seller/products

Request body: Product details (e.g., name, description, price, stock, category)

Response: Product ID or success message

## **View All Products by Seller**

GET /api/seller/products

Response: List of all products added by the seller

## **Update Product Details**

PUT /api/seller/products/{productId}

Request body: Fields to update (e.g., price, stock)

Response: Success or error message

#### **Delete a Product**

DELETE /api/seller/products/{productId}

Response: Success or error message

## **Customer APIs**

## **Browse Products**

GET /api/products?keyword=laptop

Response: List of available products

#### **View Product Details**

GET /api/products/{productId}

Response: Product details

#### **Add Order Item**

POST /api/customers/order-item

Response: Orderld

## **View Order History**

GET /api/customers/orders

Response: List of previous orders

## **Pagination**

Pagination is often helpful when we have a large dataset and we want to present it to the user in smaller chunks.

**PagingAndSortingRepository:** By extending PagingAndSortingRepository repository interface can get findAll(Pageable pageable) and findAll(Sort sort) methods for paging and sorting.

Pageable pageable = Pageable.ofSize(pageSize).withPage(pageNo);