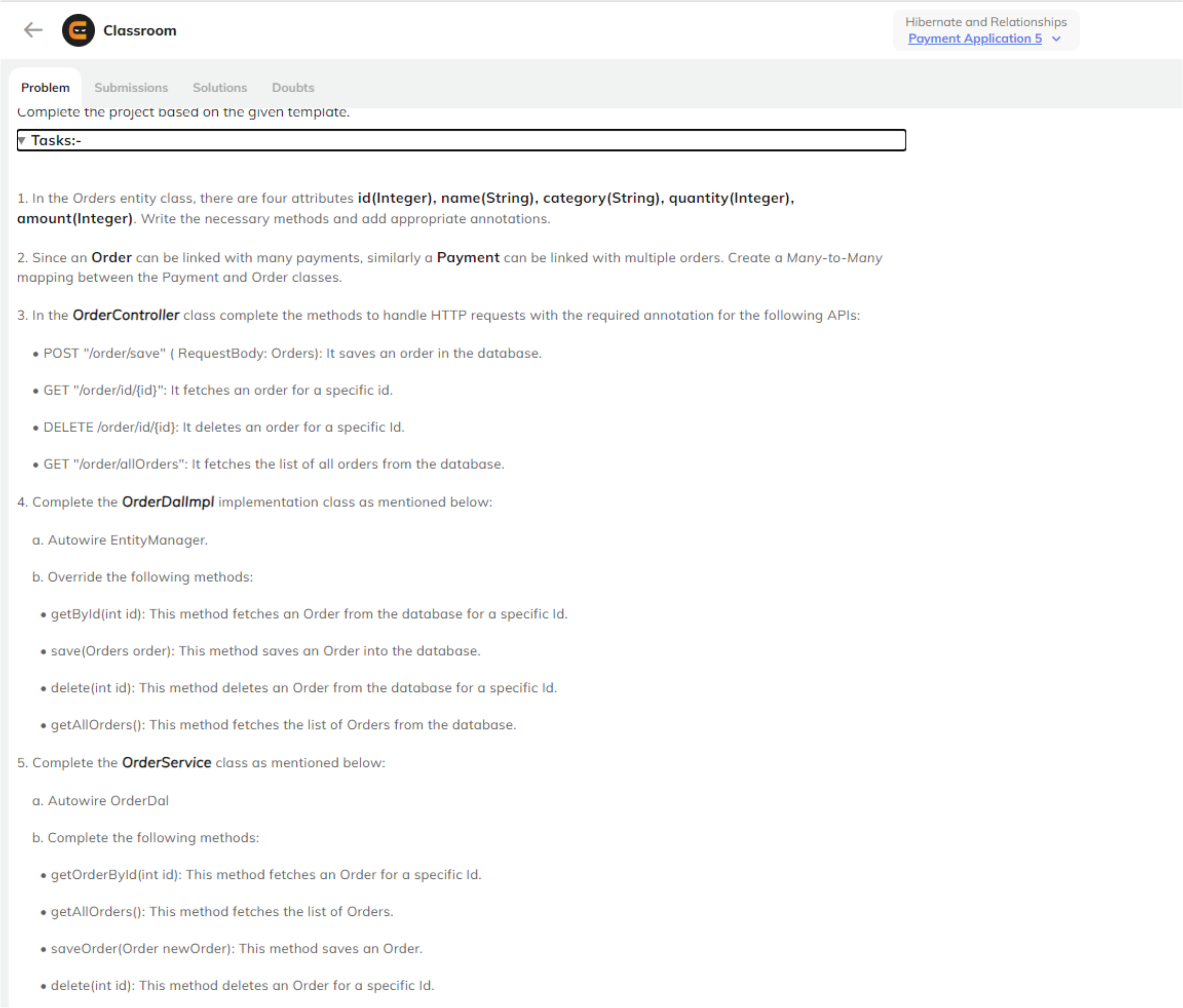
# Payment Application V

## Problem Statement:



Complete the project based on the given template.

▾ Tasks:-

1. In the Orders entity class, there are four attributes **id(Integer), name(String), category(String), quantity(Integer), amount(Integer)**. Write the necessary methods and add appropriate annotations.

2. Since an **Order** can be linked with many payments, similarly a **Payment** can be linked with multiple orders. Create a Many-to-Many mapping between the Payment and Order classes.

3. In the **OrderController** class complete the methods to handle HTTP requests with the required annotation for the following APIs:

- POST "/order/save" ( RequestBody: Orders): It saves an order in the database.
- GET "/order/id/{id}": It fetches an order for a specific id.
- DELETE /order/id/{id}: It deletes an order for a specific Id.
- GET "/order/allOrders": It fetches the list of all orders from the database.

4. Complete the **OrderDalImpl** implementation class as mentioned below:

a. Autowire EntityManager.

b. Override the following methods:

- getById(int id): This method fetches an Order from the database for a specific Id.
- save(Orders order): This method saves an Order into the database.
- delete(int id): This method deletes an Order from the database for a specific Id.
- getAllOrders(): This method fetches the list of Orders from the database.

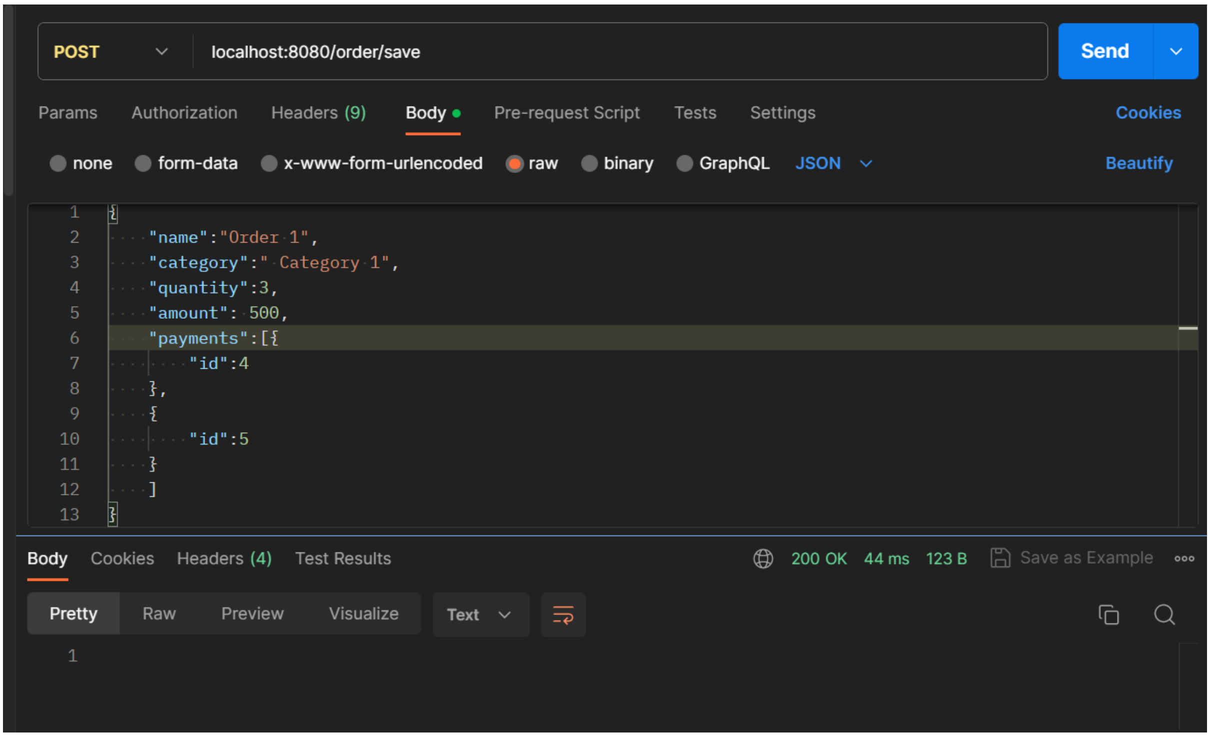
5. Complete the **OrderService** class as mentioned below:

a. Autowire OrderDal

b. Complete the following methods:

- getOrderById(int id): This method fetches an Order for a specific Id.
- getAllOrders(): This method fetches the list of Orders.
- saveOrder(Order newOrder): This method saves an Order.
- delete(int id): This method deletes an Order for a specific Id.

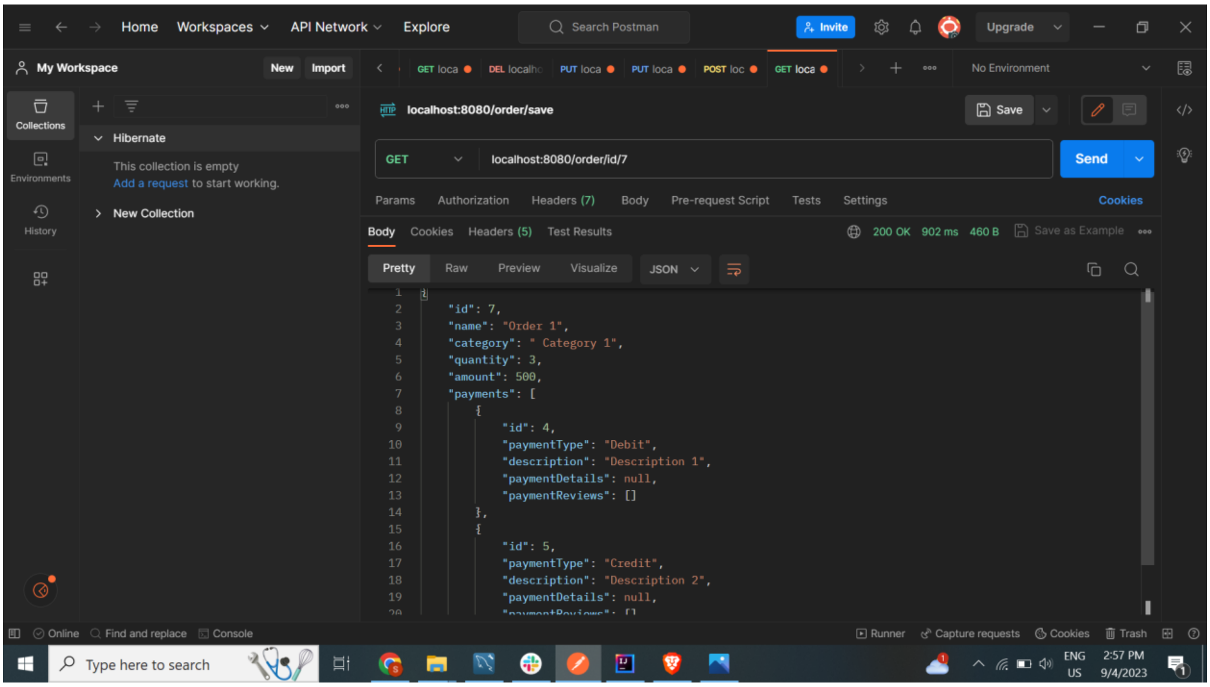
**Output:**



POST localhost:8080/order/save

```
{
    "name":"Order 1",
    "category":" Category 1",
    "quantity":3,
    "amount": 500,
    "payments":[{
        "id":4
    },
    {
        "id":5
    }
    ]
}
```

200 OK 44 ms 123 B



GET localhost:8080/order/id/7

```
{
    "id": 7,
    "name": "Order 1",
    "category": " Category 1",
    "quantity": 3,
    "amount": 500,
    "payments": [
        {
            "id": 4,
            "paymentType": "Debit",
            "description": "Description 1",
            "paymentDetails": null,
            "paymentReviews": []
        },
        {
            "id": 5,
            "paymentType": "Credit",
            "description": "Description 2",
            "paymentDetails": null,
            "paymentReviews": []
```

200 OK 902 ms 460 B