

Using the previously created Orders and Product classes, create a many-to-many mapping between them.

Code

Orders.java

```
1 package com.ProductRestApi.model;
2
3 import java.util.List;
4
15 @Entity
16 public class Orders {
17
18     @Id
19     @GeneratedValue(strategy = GenerationType.IDENTITY)
20     private Integer orderId;
21
22     @NotNull(message = "Order date must not be null")
23     private String orderDate;
24
25     @NotNull(message = "Amount must not be null")
26     private Double amount;
27
28     @OneToOne
29     @JoinColumn(name = "customer_id", referencedColumnName = "id")
30     private Customer customer;
31
32     // Specify the join table to map the many-to-many relationship
33     @ManyToMany
34     @JoinTable(
35         name = "order_product", // The name of the join table
36         joinColumns = @JoinColumn(name = "order_id"), // Foreign key column in the join table for Orders
37         inverseJoinColumns = @JoinColumn(name = "product_id") // Foreign key column in the join table for Products
38     )
39     private List<Product> products;
40
41     // Getters and setters
42     public Integer getOrderId() {
43         return orderId;
44     }
```

```

44     }
45
46     public void setOrderId(Integer orderId) {
47         this.orderId = orderId;
48     }
49
50     public String getOrderDate() {
51         return orderDate;
52     }
53
54     public void setOrderDate(String orderDate) {
55         this.orderDate = orderDate;
56     }
57
58     public Double getAmount() {
59         return amount;
60     }
61
62     public void setAmount(Double amount) {
63         this.amount = amount;
64     }
65
66     public Customer getCustomer() {
67         return customer;
68     }
69
70     public void setCustomer(Customer customer) {
71         this.customer = customer;
72     }
73
74     public List<Product> getProducts() {
75         return products;
76     }
77
78     public void setProducts(List<Product> products) {
79         this.products = products;
80     }
81 }

```

Category.java

```

1 package com.ProductRestApi.model;
2
3 import java.util.List;
4
11 @Entity
12 public class Category {
13
14
15     @Id
16     @GeneratedValue(strategy = GenerationType.IDENTITY)
17     private Integer id;
18
19     private String name;
20
21     private String description;
22
23     @OneToMany(mappedBy = "category", cascade = CascadeType.ALL, orphanRemoval = true)
24     private List<Product> products;
25
26     public Category() {}
27
28     public Category(String name, String description) {
29         this.name = name;
30         this.description = description;
31     }
32
33     // Getters and Setters
34     public Integer getId() {
35         return id;
36     }
37
38     public void setId(Integer id) {
39         this.id = id;
40     }
41
42     public String getName() {
43         return name;
44     }
45

```

```

42     public String getName() {
43         return name;
44     }
45
46     public void setName(String name) {
47         this.name = name;
48     }
49
50     public String getDescription() {
51         return description;
52     }
53
54     public void setDescription(String description) {
55         this.description = description;
56     }
57
58     public List<Product> getProducts() {
59         return products;
60     }
61
62     public void setProducts(List<Product> products) {
63         this.products = products;
64     }
65 }

```