

Restaurant Service Entities

```
package com.example.restaurant.service.entity;

import jakarta.persistence.*;

@Entity
@Table(name = "restaurants")
public class Restaurant {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private Long id;

    private String name;
    private String location;
    private String contactNumber;

    public Restaurant() {}

    public Restaurant(String name, String location, String contactNumber) {
        this.name = name;
        this.location = location;
        this.contactNumber = contactNumber;
    }

    public Long getId() {
        return id;
    }

    public void setId(Long id) {
        this.id = id;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getLocation() {
        return location;
    }

    public void setLocation(String location) {
        this.location = location;
    }

    public String getContactNumber() {
```

```

        return contactNumber;
    }

    public void setContactNumber(String contactNumber) {
        this.contactNumber = contactNumber;
    }
}
MenuItem.java
package com.example.restaurant.service.entity;

import jakarta.persistence.*;

@Entity
@Table(name = "menu_items")
public class MenuItem {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private Long id;

    private Long restaurantId;
    private String name;
    private String description;
    private Double price;

    public MenuItem() {}

    public MenuItem(Long restaurantId, String name, String description, Double
price) {
        this.restaurantId = restaurantId;
        this.name = name;
        this.description = description;
        this.price = price;
    }

    public Long getId() {
        return id;
    }

    public void setId(Long id) {
        this.id = id;
    }

    public Long getRestaurantId() {
        return restaurantId;
    }

    public void setRestaurantId(Long restaurantId) {
        this.restaurantId = restaurantId;
    }
}

```

```

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }

    public Double getPrice() {
        return price;
    }

    public void setPrice(Double price) {
        this.price = price;
    }
}

```

Order Service Entities

```

package com.example.orderservice.entity;

import jakarta.persistence.*;
import java.util.List;

@Entity
@Table(name = "orders")
public class Order {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private Long id;

    private String customerName;
    private String customerAddress;
    private Double totalAmount;
    private String status; // PLACED, PREPARING, DELIVERED, CANCELED

    @OneToMany(mappedBy = "orderId", cascade = CascadeType.ALL)
    private List<OrderItem> items;

    public Order() {}
}

```

```
    public Order(String customerName, String customerAddress, Double totalAmount,
String status) {
        this.customerName = customerName;
        this.customerAddress = customerAddress;
        this.totalAmount = totalAmount;
        this.status = status;
    }

    public Long getId() {
        return id;
    }

    public void setId(Long id) {
        this.id = id;
    }

    public String getCustomerName() {
        return customerName;
    }

    public void setCustomerName(String customerName) {
        this.customerName = customerName;
    }

    public String getCustomerAddress() {
        return customerAddress;
    }

    public void setCustomerAddress(String customerAddress) {
        this.customerAddress = customerAddress;
    }

    public Double getTotalAmount() {
        return totalAmount;
    }

    public void setTotalAmount(Double totalAmount) {
        this.totalAmount = totalAmount;
    }

    public String getStatus() {
        return status;
    }

    public void setStatus(String status) {
        this.status = status;
    }

    public List<OrderItem> getItems() {
        return items;
    }
}
```

```

    }

    public void setItems(List<OrderItem> items) {
        this.items = items;
    }
}

```

OrderItem.java

java

Copy code

```
package com.example.orderservice.entity;
```

```
import jakarta.persistence.*;
```

```
@Entity
```

```
@Table(name = "order_items")
```

```
public class OrderItem {
```

```
    @Id
```

```
    @GeneratedValue(strategy = GenerationType.IDENTITY)
```

```
    private Long id;
```

```
    private Long orderId;
```

```
    private Long menuItemId;
```

```
    private Integer quantity;
```

```
    private Double price;
```

```
    public OrderItem() {}
```

```
    public OrderItem(Long orderId, Long menuItemId, Integer quantity, Double price)
```

```
{
```

```
        this.orderId = orderId;
```

```
        this.menuItemId = menuItemId;
```

```
        this.quantity = quantity;
```

```
        this.price = price;
```

```
}
```

```
    public Long getId() {
```

```
        return id;
```

```
}
```

```
    public void setId(Long id) {
```

```
        this.id = id;
```

```
}
```

```
    public Long getOrderId() {
```

```
        return orderId;
```

```
}
```

```
    public void setOrderId(Long orderId) {
```

```
        this.orderId = orderId;
```

```

    }

    public Long getMenuItemId() {
        return menuItemId;
    }

    public void setMenuItemId(Long menuItemId) {
        this.menuItemId = menuItemId;
    }

    public Integer getQuantity() {
        return quantity;
    }

    public void setQuantity(Integer quantity) {
        this.quantity = quantity;
    }

    public Double getPrice() {
        return price;
    }

    public void setPrice(Double price) {
        this.price = price;
    }
}

Delivery Service Entity
Delivery.java
package com.example.deliveryservice.entity;

import jakarta.persistence.*;

@Entity
@Table(name = "deliveries")
public class Delivery {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private Long id;

    private Long orderId;
    private String deliveryPersonName;
    private String deliveryStatus; // ASSIGNED, OUT_FOR_DELIVERY, DELIVERED

    public Delivery() {}

    public Delivery(Long orderId, String deliveryPersonName, String deliveryStatus)
{
        this.orderId = orderId;
        this.deliveryPersonName = deliveryPersonName;

```

```
        this.deliveryStatus = deliveryStatus;
    }

    public Long getId() {
        return id;
    }

    public void setId(Long id) {
        this.id = id;
    }

    public Long getOrderId() {
        return orderId;
    }

    public void setOrderId(Long orderId) {
        this.orderId = orderId;
    }

    public String getDeliveryPersonName() {
        return deliveryPersonName;
    }

    public void setDeliveryPersonName(String deliveryPersonName) {
        this.deliveryPersonName = deliveryPersonName;
    }

    public String getDeliveryStatus() {
        return deliveryStatus;
    }

    public void setDeliveryStatus(String deliveryStatus) {
        this.deliveryStatus = deliveryStatus;
    }
}
```