

Order class

```
package com.restaurant.controller;
```

```
import java.util.List;
```

```
import org.springframework.beans.factory.annotation.Autowired;
```

```
import org.springframework.http.ResponseEntity;
```

```
import org.springframework.web.bind.annotation.CrossOrigin;
```

```
import org.springframework.web.bind.annotation.GetMapping;
```

```
import org.springframework.web.bind.annotation.PathVariable;
```

```
import org.springframework.web.bind.annotation.PostMapping;
```

```
import org.springframework.web.bind.annotation.RequestBody;
```

```
import org.springframework.web.bind.annotation.RequestMapping;
```

```
import org.springframework.web.bind.annotation.RestController;
```

```
import com.restaurant.pojo.OrderDetails;
```

```
import com.restaurant.service.OrderService;
```

```
@RestController
```

```
@CrossOrigin(origins = "*")
```

```
@RequestMapping("/order")
```

```
public class OrderController {
```

```
    @Autowired
```

```
    OrderService orderService;
```

```
    @PostMapping("/createOrder")
```

```
    public ResponseEntity<?> createOrder(@RequestBody OrderDetails orderDetails) {
```

```
        //System.out.println(orderDetails.toString());
```

```
        return ResponseEntity.ok(orderService.addOrder(orderDetails));
```

```
    }
```

```

    @GetMapping("/orderId/{orderId}")
    public OrderDetails getOrderById(@PathVariable Long orderId) {
        return orderService.getOrderById(orderId);
    }

    @GetMapping("/idForCod")
    public String paymentIdForCod() {
        String paymentId=orderService.randomPaymentIdGenerator();

        while(isPaymentIdExists(paymentId)) {
            paymentId=orderService.randomPaymentIdGenerator();
        }
        return paymentId;
    }

    public boolean isPaymentIdExists(String randomPaymentId) {
        OrderDetails order=orderService.getOrderByPaymentId(randomPaymentId);
        return(order!=null);
    }

    @GetMapping("/paymentId/{paymentId}")
    public OrderDetails getOrderByPaymentId(@PathVariable String paymentId) {
        return orderService.getOrderByPaymentId(paymentId);
    }

    @GetMapping("")
    public List<OrderDetails> getAllOrders(){
        return orderService.getAllOrders();
    }
}

```

```

class OrderDetails

```

```
package com.restaurant.pojo;
```

```
import java.time.LocalDate;
```

```
import javax.persistence.Entity;
```

```
import javax.persistence.GeneratedValue;
```

```
import javax.persistence.GenerationType;
```

```
import javax.persistence.Id;
```

```
import javax.persistence.Table;
```

```
import lombok.Data;
```

```
@Data
```

```
@Entity
```

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

```
public class OrderDetails {
```

```
    @Id
```

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

```
    private Long orderId;
```

```
    private String name;
```

```
    private String email;
```

```
    private String contact;
```

```
    private Double amount;
```

```
    private String address;
```

```
    private String city;
```

```
    private String state;
```

```
    private String zip;
```

```

private Long userId;

private String paymentMethod;

private String paymentId;

private LocalDate orderDate;

@Override

public String toString() {

    return "OrderDetails [orderId=" + orderId + ", name=" + name + ", email=" + email + ",
contact=" + contact

                + ", amount=" + amount + ", address=" + address + ", city=" + city + ", state="
+ state + ", zip=" + zip

                + ", userId=" + userId + ", paymentMethod=" + paymentMethod + ",
paymentId=" + paymentId + ", orderDate="

                + orderDate + "]";

}

public Long getOrderId() {

    return orderId;

}

public void setOrderId(Long orderId) {

    this.orderId = orderId;

}

public String getName() {

    return name;

}

public void setName(String name) {

    this.name = name;

}

public String getEmail() {

    return email;

}

public void setEmail(String email) {

    this.email = email;

```

```
}  
  
public String getContact() {  
    return contact;  
}  
  
public void setContact(String contact) {  
    this.contact = contact;  
}  
  
public Double getAmount() {  
    return amount;  
}  
  
public void setAmount(Double amount) {  
    this.amount = amount;  
}  
  
public String getAddress() {  
    return address;  
}  
  
public void setAddress(String address) {  
    this.address = address;  
}  
  
public String getCity() {  
    return city;  
}  
  
public void setCity(String city) {  
    this.city = city;  
}  
  
public String getState() {  
    return state;  
}  
  
public void setState(String state) {  
    this.state = state;  
}
```

```
public String getZip() {  
    return zip;  
}  
public void setZip(String zip) {  
    this.zip = zip;  
}  
public Long getUserId() {  
    return userId;  
}  
public void setUserId(Long userId) {  
    this.userId = userId;  
}  
public String getPaymentMethod() {  
    return paymentMethod;  
}  
public void setPaymentMethod(String paymentMethod) {  
    this.paymentMethod = paymentMethod;  
}  
public String getPaymentId() {  
    return paymentId;  
}  
public void setPaymentId(String paymentId) {  
    this.paymentId = paymentId;  
}  
public LocalDate getOrderDate() {  
    return orderDate;  
}  
public void setOrderDate(LocalDate orderDate) {  
    this.orderDate = orderDate;  
}
```

```

public OrderDetails(Long orderId, String name, String email, String contact, Double amount, String
address, String city,
                    String state, String zip, Long userId, String paymentMethod, String paymentId,
LocalDate orderDate) {
    super();
    this.orderId = orderId;
    this.name = name;
    this.email = email;
    this.contact = contact;
    this.amount = amount;
    this.address = address;
    this.city = city;
    this.state = state;
    this.zip = zip;
    this.userId = userId;
    this.paymentMethod = paymentMethod;
    this.paymentId = paymentId;
    this.orderDate = orderDate;
}

public OrderDetails() {
    super();
    // TODO Auto-generated constructor stub
}

}

```

Class OrderRepo

```
package com.restaurant.repo;
```

```
import org.springframework.data.jpa.repository.JpaRepository;
```

```
import com.restaurant.pojo.OrderDetails;
```

```
public interface OrderRepo extends JpaRepository<OrderDetails, Long> {
```

```
    OrderDetails findByPaymentId(String paymentId);
```

```
}
```

```
class OrderService
```

```
package com.restaurant.service;
```

```
import java.util.List;
```

```
import org.springframework.beans.factory.annotation.Autowired;
```

```
import org.springframework.stereotype.Service;
```

```
import com.restaurant.pojo.OrderDetails;
```

```
import com.restaurant.repo.OrderRepo;
```

```
import java.util.Random;
```

```
@Service
```

```
public class OrderService {
```

```
    @Autowired
```

```
    OrderRepo orderRepo;
```

```
    public OrderDetails addOrder(OrderDetails order) {
```

```
        return orderRepo.save(order);
```



```
}
```

```
public OrderDetails getOrderById(Long orderId) {  
    return orderRepo.findById(orderId).orElse(null);  
}
```

```
public List<OrderDetails> getAllOrders(){  
    return orderRepo.findAll();  
}
```

```
public String randomPaymentIdGenerator() {  
    Random random=new Random();  
    long paymentId=100_000_000_000L+(random.nextLong()%100_000_000_000L);  
    return "C_O_D"+String.format("%012d", paymentId);  
}
```

```
public OrderDetails getOrderById(String paymentId) {  
    return orderRepo.findById(paymentId); }  
}
```