

Generating Order Summary

This documentation provides a high-level overview of the approach to generating an order summary in a Spring Boot application. It outlines the key steps involved and describes the general flow of data and interactions.

Continuing the PlaceOrder API

We first empty the user's cart and send the order summary through the notification service.

```
@Service
public class OrderService {
    @Autowired
    private OrderRepository orderRepository; // Assuming you have a repository
    @Autowired
    private OrderItemRepository orderItemRepository; // Assuming you have a
    @Autowired
    private CartService cartService; // Assuming you have a service for
   @Autowired
    private NotificationService notificationService; // Assuming you have a
   @Transactional
    public Order placeOrder(OrderRequestDto orderRequestDto) {
        List<CartItem> cartItems = cartService.getCartItems(userCart);
        Order order = new Order();
        order.setCustomer(customer);
        order.setItems(new ArrayList<>()); // Initialize the list
        for (CartItem cartItem : cartItems) {
            OrderItem orderItem = new OrderItem();
```



```
orderItem.setOrder(order);
            orderItem.setProduct(cartItem.getProduct());
            orderItem.setQuantity(cartItem.getQuantity());
            orderItem.setPrice(cartItem.getProduct().getPrice()); // Assuming
           order.getItems().add(orderItem);
           cartService.deleteCartItem(cartItem);
       BigDecimal totalPrice = calculateTotalPrice(order.getItems());
       order.setTotalPrice(totalPrice);
       order = orderRepository.save(order);
       cartService.deleteUserCartItems(userCart.getUserId());
       User user = userService.getUserById(userCart.getUserId());
       String subjectString = "Order placed with id: " + order.getId();
       if(user!=null) {
            notificationService.sendOrderConfirmation(user.getEmail(),
subjectString);
       return order;
   private BigDecimal calculateTotalPrice(List<OrderItem> orderItems) {
       return orderItems.stream()
                .map(OrderItem::getPrice)
                .reduce(BigDecimal.ZERO, BigDecimal::add);
```

In the above code snippet, we continue the **createOrder** endpoint /api/orders that accept the orderRequest as a Request Body, generate the order summary as a string, and send a notification to the user using **NotificationService**.