

OrderHistoryServiceTest_Part2

Overview

This document describes additional test cases for OrderHistoryService. These cases expand coverage of features like history lookup, filtering, and edge cases.

Dependencies

- JUnit 5
- Mockito
- Spring's ResponseEntity

Mocked Components

- OrderHistoryRepository
- OrderRepository
- CartRepository
- ProductRepository

Test Cases

1. testRecordOrderAndClearCart_NoExistingHistory

Purpose: Verify a new order history is created and cart is cleared when no history exists.

Test Scenario

- Arrange: Mock cartRepository to return a cart. Mock orderHistoryRepository to return empty.
- Act: Call recordOrderAndClearCart with a userId and orderId.
- Assert: Ensure orderId is saved in a new OrderHistory and cart is cleared.

Business Logic Verified

Handles first-time order history creation and cart cleanup properly.

2. testGetHistoryByUser_Found

Purpose: Verify a user's order history is returned correctly.

Test Scenario

- Arrange: Mock orderHistoryRepository to return a populated OrderHistory.
- Act: Call getHistoryByUser.
- Assert: Response status is 200 and contains correct orderId list.

Business Logic Verified

Confirms retrieval of user order history when present.

3. testGetHistoryByUser_NotFound

Purpose: Verify 404 response is returned if the user has no order history.

Test Scenario

- Arrange: Mock orderHistoryRepository to return Optional.empty().
- Act: Call getHistoryByUser.
- Assert: Response status is 404.

Business Logic Verified

Handles missing order history with appropriate response.

Conclusion

These test cases ensure robust handling of order history features such as conditional retrieval, first-time use, cleanup, and filtering of order data.