Bug Report #6: OrderHistoryService.getProductsFromPreviousOrders Returns Empty List

System Impact Summary
Users see no previous products in their order history, even when orders exist, breaking the "view previous orders" feature and preventing order reordering.

Description

The OrderHistoryService.getProductsFromPreviousOrders(userId) method returns an empty list instead of the expected list of Product objects associated with past orders.

Steps to Reproduce

1. Mock OrderHistoryRepository.findByUserId(userId) to return one Order with productIds = [id1, id2].

2. Mock ProductService.getProductsByIds([id1, id2]) to return two Product instances.

3. Call historyService.getProductsFromPreviousOrders(userId) in a unit test.

Expected Behavior

The service should return a List<Product> containing the two stubbed Product objects.

Actual Behavior

The method returns an empty list ([]), causing the unit test to fail with:

expected: <[Product(...), Product(...)]> but was: <[]>

Severity

Medium – Impacts order history functionality and downstream features like reordering.

Affected Component(s)

- OrderHistoryService

- OrderHistoryRepository.findByUserId(...)

- ProductService.getProductsByIds(...)

Root Cause

Unit test stubs for the repository or product service were not properly configured, leading to the service method not retrieving or aggregating the returned products. Likely missing

a when(…) stub for OrderHistoryRepository.findByUserId() or incorrect mapping of product IDs to products.

Proposed Fix

1. Add Mockito stubbing in the unit test:

2. Verify that getProductsFromPreviousOrders invokes both repository and product service correctly.