RefundTest Documentation

Overview

This suite exercises the refund-related endpoints in OrderController:

- requestRefund: PUT /api/order/requestRefund/{orderId}
- getActiveRefundRequests: GET /api/order/refundRequests/active
- approveRefund: PUT /api/order/refund/approve/{requestId}
- rejectRefund: DELETE /api/order/refund/reject/{requestId}

Test Class Structure

- Frameworks: JUnit 5, Mockito
- Mocked services: UserService, CartService, PaymentService, OrderService, OrderHistoryService
- Controller under test: OrderController (standalone MockMvc)

Test Cases

- $1. \ request Refund_Should Return Ok And Message$
 - Arrange: stub orderService.requestRefundSingle(...) o 200 OK, "Refund requested"
 - Act: PUT /api/order/requestRefund/{orderId}
 - Assert: status 200 and response body "Refund requested"
- $2. \ \mathbf{getActiveRefundRequests_ShouldReturnListAsJson}$
 - Arrange: stub orderService.getRefundRequestsByProcessed(false) \rightarrow one RefundRequest with a single RefundItem
 - Act: GET /api/order/refundRequests/active
 - Assert: status 200 and JSON path checks on requestId, orderId, items[0].productId, etc.
- $3. \ approve Refund_Should Return OkAnd Approval Message$
 - Arrange: stub orderService.approveRefund(requestId) o 200 OK, "Approved"
 - Act: PUT /api/order/refund/approve/{requestId}
 - Assert: status 200 and body "Approved"
- $4. \ reject Refund_Should Return Ok And Rejection Message$
 - Arrange: stub orderService.rejectRefund(requestId) o 200 OK, "Rejected"
 - Act: DELETE /api/order/refund/reject/{requestId}
 - Assert: status 200 and body "Rejected"

Mocking Strategy

- Standalone MockMvc via MockMvcBuilders.standaloneSetup(orderController)
- @Mock all services, @InjectMocks the controller
- when(...).thenReturn(...) for each service call

• jsonPath and content() assertions