Test Strategy Document

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1   Introduction

This test strategy describes the approach for testing the **Related Best Seller Products** feature on the eBay product detail page. The goal is to ensure that users are shown relevant, accurate, and high-quality product recommendations when viewing a wallet product.

1.1   Background

When a shopper searches for a wallet and navigates to a product detail page, the system displays related products that are identified as best sellers. These products must belong to the same category, fall within a similar price range, and be limited to a maximum of six items. This feature is intended to improve discoverability and enhance the shopping experience.

2   Testing Strategy Overview

2.1   Objectives

- Ensure related products are displayed according to business requirements.
- Verify that only best seller products from the same category are shown.
- Confirm that existing product page functionality is not negatively impacted.
- Validate that the feature improves user experience and relevance.

2.2   Testing Levels

- Unit Testing: Performed by developers in the development environment.
- Integration Testing: Performed by QA to validate data between services.
- System Testing: Performed by QA in the test environment.
- User Acceptance Testing (UAT): Performed by stakeholders in staging.

3   Scope

3.1   In Scope

- Related best seller products section
- Category validation
- Price range validation
- Product count validation (maximum six)

3.2 Out of Scope

- Checkout and payment process
- User authentication
- Order management

4 Test Approach

Testing will follow a structured and requirement-based approach using both manual and automated testing techniques.

4.1 Entry and Exit Criteria

Entry Criteria:

- Feature deployed to test environment
- Required test data available
- Unit testing completed successfully

Exit Criteria:

- All critical and high-severity defects resolved
- Test cases executed with acceptable pass rate

4.2 Team Responsibilities

- **QA Engineer**: Manual and automation testing, defect reporting
- **Developers**: Unit testing and defect fixes
- **Test Lead**: Test planning, reporting, and coordination

4.3 Testing Environments

- Development: Unit testing
- Test: Integration and system testing
- Staging: User acceptance testing

4.4   Testing Tools

- Test Case Management: Excel / Markdown
- Defect Tracking: Jira
- Automation: Playwright
- API Testing: Postman

4.5   Defect Management

Defects will be logged with severity and priority. Critical issues will be communicated immediately to the development team. All defects will be tracked until closure.

5   Release Information

All critical and high-priority defects must be fixed before release. Test sign-off is required from the QA team prior to deployment.

6   Reporting and Metrics

Daily status updates will include:

- Number of test cases executed
- Pass/fail rate
- Number of open defects by severity

Final test summary report will be shared at the end of testing.

7   Risks

- Incorrect product tagging may affect recommendations
- Backend service failures may impact data accuracy

Mitigation includes early testing and API validation.

8   Summary

This test strategy ensures thorough validation of the **Related Best Seller Products** feature to deliver a reliable, accurate, and user-friendly shopping experience. By covering functional, UI, and integration aspects, the strategy helps minimize defects and ensures the feature meets business and user expectations.