**Test Strategy Document**

**Feature:** Related Products – Best Sellers

**Project:** eBay Product Page Enhancement

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# **1. Scope**

This test strategy covers the verification of the "Related Products – Best Sellers" feature on eBay's product detail page. The feature displays up to six best-selling products from the same category and within a similar price range as the main product.

**2. Questions and Clarifications**

|  |  |  |  |
| --- | --- | --- | --- |
| Question | Clarification | Impact on Testing | Final Answer |
| Who is a Best Seller? | Top by sales in last 30 days; ratings not considered | Simulate high vs low sales products in test data | Products with highest sales volume in last 30 days |
| How to identify "Same Category"? | Match by exact leaf category (e.g., “Men’s Leather Wallets” only) | Failure Validate category mapping will result in Test Case Failuyre | Match using lowest-level category ( “Mens Wallet”) |
| What is the valid price range? | ±15% of main product price; exempt if product < $10 | Boundary testing for $11.50 with $10 main | ±15% of product price |
|  | $12.00 to $20.00 | Prices should be in the same range | Prices are in the expected range after applying the filter for price range |
| If >6 products match, which show? | Sort by newest first; random if same timestamp | Refresh test; validate sorting by timestamp | Display newest first |
| Display sponsored products? | Sponsored products are included | Confirm no leakage from “Customers Ultimately bought” section | Sponsored products shown |
| Include out-of-stock items? | Excluded within 5 minutes of stock change | Test real-time API with out-of-stock updates | Exclude out-of-stock items |
| Region/geography filtering? | Only items eligible for selected shipping region | Test using location changes (VPNs or headers) | Filtered by ship-to location |
| Need user login? | Publicly visible to all users (no login needed) | Validate both logged-in and guest sessions | No login required |

# 3. Objectives

Validate the relevance and accuracy of related products.  
Ensure related products appear only when conditions (category, price) are met.  
Confirm display is consistent across browsers and devices (responsive UI).  
Verify user interactions (e.g., clicking a related product opens the correct product page).  
Ensure graceful behavior when data is missing or incomplete.

# 4. Test Levels

|  |  |
| --- | --- |
| Level | Description |
| Unit Testing | Handled by developers to validate individual logic blocks.  Note - Assumed that they are completed by developers |
| Functional Testing | End-to-end feature validation including business rules.  Note – Expected to run an E2E in the Automation testing |
| UI Testing | Checking design, layout, image rendering, responsiveness, etc.  Note- Expected not to run basic UI testings |
| Integration Testing | Ensure backend (product DB, pricing, tags) integrates correctly with frontend.  Note – Assumes that they are completed by developers |
| Regression Testing | Revalidate core functionalities after updates or bug fixes.  Note – Not included in this test Strategy |

# **5. Test Types**

In this test scenario following test cases

**Positive Testing:** Verify the happy path  
**Negative Testing:** Verify handling when no related products or missing data.  
**Edge Case Testing:** Validate when 0, 1, or >6 related products are available.  
**UI/UX Testing:** Validate layout, responsiveness, accessibility, and image quality. ( Not conisdered in this test Suite)

# **6. Test Environment**

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| --- | --- |
| Item | Description |
| Environment | Staging/Test Environment |
| Data | Static test data configured for reproducibility |
| Browsers | Chromium, Firefox, WebKit (latest versions) |
| Devices | Desktop (1280x720+) - iOS |

# **6. Tools**

|  |  |
| --- | --- |
| Purpose | Tool |
| Test Case Management | Excel |
| Defect Tracking | Jira can be used with Token Number (Not Used ) |
| Automation | Playwright (Transcript) |
| Version Control | Git / GitHub |
| Reporting | Allure / HTML Reports |

# **7. Entry & Exit Criteria**

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| --- | --- |
| Criteria | Description |
| Entry Criteria | Feature deployed on staging, UI/backend ready, test data prepared. |
| Exit Criteria | All test cases executed, no critical/high bugs open |

# **8. Risk & Mitigation**

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| --- | --- |
| Risk | Mitigation |
| Dynamic content may change frequently, causing test flakiness | Use controlled test data where possible |
| Less than 6 related products available | Define fallback UI handling with product team |
| API/backend issues may delay feature availability | Coordinate with developers for mocks or stubs |

# **9. Deliverables**

|  |  |
| --- | --- |
| Deliverable | Deliverable Status |
| Test Strategy Document | Completed |
| Detailed Test Cases | Completed |
| Automated Scripts | Completed |
| Bug Reports | Completed |
| Final Test Summary Report | Completed |