

### 3. Full Test Suite

#### 3.1 Assumptions

- Best seller products are tagged by backend
- Price range tolerance is  $\pm 10\%$
- Products belong to a single category

#### 3.2 Preconditions

- User has stable internet
- Product exists in system
- Backend services are available

#### 3.3 Test Data / Data Preparation

- Main product: Wallet – Price LKR 2,000
- Related products: LKR 1,800 – 2,200
- Category: Wallets

#### 3.4 Detailed Test Cases

Test Case ID	Test Scenario	Test Case Title	Pre-Requisites	Test Steps	Test Data	Expected Result	Priority
TC_01	Related Products Display	Verify related products section is displayed	User is on wallet product page	1. Search for wallet 2. Open wallet product page	Wallet	Related products section is displayed	High
TC_02	Product Count Validation	Verify max 6 related products	Related products available	Count the displayed related products	-	Maximum of 6 products displayed	Medium
TC_03	Category Validation	Verify related products belong to same category	Product category available	Check category of each related product	Wallet category	All related products belong to wallet category	High
TC_04	Price Range Validation	Verify related products price within range	Main product price known	Compare related products prices	LKR 2,000	Prices are within $\pm 10\%$ range	Medium
TC_05	No Best Sellers Scenario	Verify behavior when no best sellers are available	No best seller data exists	Open product with no best sellers	Rare wallet	Related products section is hidden or empty	Low

TC_06	Unrelated Products Validation	Verify no unrelated category products are shown	Related products displayed	Review each related product	-	No unrelated category products shown	High
TC_07	UI Validation	Verify UI alignment of related products section	Page loaded successfully	Observe layout and alignment	-	Proper UI alignment without overlap	Low
TC_08	API Failure Handling	Verify behavior when related products API fails	API failure simulated	Load product page	-	Graceful error or empty state displayed	High