Mini Project- Manual testing

Project name=Tira beauty (E-commerce website)

URL= <https://www.tirabeauty.com/?srsltid=AfmBOoo3p7fpizDAbQSUAfH0dzxk1CKDUj-Z31sPzPdkPOPJtkDtZeLK>

1. Create requirements on this project
2. Create requirement analysis report
3. Write testcases module wise
4. Execute test cases
5. Find out defects
6. Create defect reports
7. Create test analysis report

Ans:

**1. Functional Requirement – Homepage Navigation**

**ID:** FR-001  
**Type:** Functional  
**Description:** Homepage must load all navigation categories (Makeup, Skin, Hair, etc.) and promotional banners.

**2. Requirement Analysis Report**

| **Feature Area** | **Requirement** | **Acceptance Criteria** |
| --- | --- | --- |
| Homepage Navigation | Homepage loads navigation categories and promotional banners | When the homepage is opened, all main navigation categories are visible and clickable within 3 seconds. Promotional banners load correctly and are clickable. |

**3. Module-wise Test Cases**

| **Test Case ID** | **Module** | **Description** | **Preconditions** | **Steps** | **Expected Result** |
| --- | --- | --- | --- | --- | --- |
| TC-001 | Homepage | Verify that all navigation categories are displayed | Browser open | Open homepage and check navigation menu | All categories (Makeup, Skin, Hair, etc.) are visible |
| TC-002 | Homepage | Verify navigation categories are clickable | Homepage loaded | Click each category link | Relevant category page loads |
| TC-003 | Homepage | Verify promotional banners load | Homepage loaded | Check promotional banners | All banners load without broken images |
| TC-004 | Homepage | Verify banner links work | Homepage loaded | Click on each promotional banner | User is redirected to relevant product/category page |
| TC-005 | Homepage | Verify page loads under 3 seconds | Homepage not cached | Load homepage | Page fully loads in ≤ 3 seconds |

**4. Test Case Execution Report**

| **Test Case ID** | **Execution Date** | **Tester** | **Status** | **Remarks** |
| --- | --- | --- | --- | --- |
| TC-001 | 2025-08-9 | Tester1 | Pass | — |
| TC-002 | 2025-08-9 | Tester1 | Pass | — |
| TC-003 | 2025-08-9 | Tester1 | Fail | One banner not loading |
| TC-004 | 2025-08-9 | Tester1 | Pass | — |
| TC-005 | 2025-08-9 | Tester1 | Pass | — |

**5. Defect Identification List**

| **Defect ID** | **Test Case ID** | **Summary** | **Severity** | **Priority** |
| --- | --- | --- | --- | --- |
| D-001 | TC-003 | One promotional banner not loading | Medium | High |

**6. Defect Report**

| **Defect ID** | **Title** | **Steps to Reproduce** | **Expected Result** | **Actual Result** | **Severity** | **Priority** | **Status** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| D-001 | Promotional banner not loading | Open homepage, scroll to promotional banners | All banners load | Second banner shows broken image icon | Medium | High | Open |

**7. Test Analysis Report**

**Module:** Homepage Navigation

* **Total Test Cases:** 5
* **Passed:** 4
* **Failed:** 1
* **Defects Found:** 1
* **Defect Density:** 0.2 defects/test case
* **Overall Quality:** Good, except for one banner load issue.
* **Recommendation:** Fix broken banner image and re-test before release.

**Requirement 2 – User Login**

**1. Functional Requirement**  
**ID:** FR-002  
**Type:** Functional  
**Description:** Users must be able to log in using registered email and password.

**2. Requirement Analysis Report**

| **Feature Area** | **Requirement** | **Acceptance Criteria** |
| --- | --- | --- |
| User Authentication | Login via email/password | Login should succeed with valid credentials and fail with invalid credentials. |

**3. Module-Wise Test Cases**

| **TC ID** | **Module** | **Description** | **Preconditions** | **Steps** | **Expected Result** |
| --- | --- | --- | --- | --- | --- |
| TC-006 | Login | Verify login with valid credentials | User registered | Enter valid email/password, click login | Redirect to dashboard |
| TC-007 | Login | Verify login with invalid password | User registered | Enter valid email/wrong password | Error message shown |
| TC-008 | Login | Verify login with unregistered email | — | Enter random email/password | Error message shown |
| TC-009 | Login | Verify empty fields | — | Click login without entering data | Validation message shown |
| TC-010 | Login | Verify “Remember Me” | User registered | Check “Remember Me” and login | Session persists after reload |

**4. Execution Report**

| **TC ID** | **Date** | **Tester** | **Status** | **Remarks** |
| --- | --- | --- | --- | --- |
| TC-006 | 2025-08-9 | Tester1 | Pass | — |
| TC-007 | 2025-08-9 | Tester1 | Pass | — |
| TC-008 | 2025-08-9 | Tester1 | Pass | — |
| TC-009 | 2025-08-9 | Tester1 | Pass | — |
| TC-010 | 2025-08-9 | Tester1 | Fail | Session not persisting |

**5. Defect Identification**

| **Defect ID** | **TC ID** | **Summary** | **Severity** | **Priority** |
| --- | --- | --- | --- | --- |
| D-002 | TC-010 | “Remember Me” not working | Low | Medium |

**6. Defect Report**

| **Defect ID** | **Title** | **Steps to Reproduce** | **Expected** | **Actual** | **Severity** | **Priority** | **Status** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| D-002 | Remember Me not working | Login with Remember Me checked | Stay logged in after reload | User logged out after reload | Low | Medium | Open |

**7. Test Analysis Report**

* Total: 5, Passed: 4, Failed: 1
* Defects: 1, Density: 0.2
* Quality: Good, but Remember Me bug found.

**Requirement 3 – Product Search**

**1. Functional Requirement**  
**ID:** FR-003  
**Type:** Functional  
**Description:** Users must be able to search for products using keywords.

**2. Requirement Analysis Report**

| **Feature Area** | **Requirement** | **Acceptance Criteria** |
| --- | --- | --- |
| Product Search | Search bar functionality | Search returns relevant products for valid keywords within 2 seconds. |

**3. Module-Wise Test Cases**

| **TC ID** | **Module** | **Description** | **Preconditions** | **Steps** | **Expected Result** |
| --- | --- | --- | --- | --- | --- |
| TC-011 | Search | Verify search with valid keyword | — | Enter “lipstick” and click search | List of lipsticks shown |
| TC-012 | Search | Verify search with invalid keyword | — | Enter “abcdxyz” | “No products found” |
| TC-013 | Search | Verify empty search | — | Click search without input | Validation message shown |
| TC-014 | Search | Verify partial keyword | — | Enter “lip” | Lipstick and related products shown |
| TC-015 | Search | Verify speed | — | Search “perfume” | Results in ≤2 sec |

**4. Execution Report**

| **TC ID** | **Date** | **Tester** | **Status** | **Remarks** |
| --- | --- | --- | --- | --- |
| TC-011 | 2025-08-9 | Tester1 | Pass | — |
| TC-012 | 2025-08-9 | Tester1 | Pass | — |
| TC-013 | 2025-08-9 | Tester1 | Pass | — |
| TC-014 | 2025-08-9 | Tester1 | Pass | — |
| TC-015 | 2025-08-9 | Tester1 | Fail | Search took 4 sec |

**5. Defect Identification**

| **Defect ID** | **TC ID** | **Summary** | **Severity** | **Priority** |
| --- | --- | --- | --- | --- |
| D-003 | TC-015 | Search performance slow | Medium | High |

**6. Defect Report**

| **Defect ID** | **Title** | **Steps to Reproduce** | **Expected** | **Actual** | **Severity** | **Priority** | **Status** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| D-003 | Search slow | Search “perfume” | Results in ≤2 sec | Took 4 sec | Medium | High | Open |

**7. Test Analysis Report**

* Total: 5, Passed: 4, Failed: 1
* Defects: 1, Density: 0.2
* Quality: Acceptable, but search optimization required.

**Requirement 4 – Add to Cart**

**1. Functional Requirement**  
**ID:** FR-004  
**Type:** Functional  
**Description:** Users must be able to add selected products to their shopping cart.

**2. Requirement Analysis Report**

| **Feature Area** | **Requirement** | **Acceptance Criteria** |
| --- | --- | --- |
| Shopping Cart | Add products to cart | Clicking “Add to Cart” adds the correct product with correct quantity and price. |

**3. Module-Wise Test Cases**

| **TC ID** | **Module** | **Description** | **Preconditions** | **Steps** | **Expected Result** |
| --- | --- | --- | --- | --- | --- |
| TC-016 | Cart | Add single product | Logged in | Select product, click “Add to Cart” | Product appears in cart |
| TC-017 | Cart | Add multiple products | Logged in | Add 3 different products | All appear in cart |
| TC-018 | Cart | Add duplicate product | Logged in | Add same product twice | Quantity updates correctly |
| TC-019 | Cart | Verify price update | Logged in | Add products, check total | Total matches prices |
| TC-020 | Cart | Add from search results | Logged in | Search product, add to cart | Appears in cart |

**4. Execution Report**

| **TC ID** | **Date** | **Tester** | **Status** | **Remarks** |
| --- | --- | --- | --- | --- |
| TC-016 | 2025-08-9 | Tester1 | Pass | — |
| TC-017 | 2025-08-9 | Tester1 | Pass | — |
| TC-018 | 2025-08-9 | Tester1 | Pass | — |
| TC-019 | 2025-08-9 | Tester1 | Fail | Price mismatch |
| TC-020 | 2025-08-9 | Tester1 | Pass | — |

**5. Defect Identification**

| **Defect ID** | **TC ID** | **Summary** | **Severity** | **Priority** |
| --- | --- | --- | --- | --- |
| D-004 | TC-019 | Price not updating correctly | High | High |

**6. Defect Report**

| **Defect ID** | **Title** | **Steps to Reproduce** | **Expected** | **Actual** | **Severity** | **Priority** | **Status** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| D-004 | Cart total incorrect | Add 2 products with known prices | Total matches sum | Total incorrect | High | High | Open |

**7. Test Analysis Report**

* Total: 5, Passed: 4, Failed: 1
* Defects: 1
* Quality: Critical defect in price calculation.

**Requirement 5 – Remove from Cart**

**1. Functional Requirement**  
**ID:** FR-005  
**Type:** Functional  
**Description:** Users must be able to remove products from their shopping cart.

**2. Requirement Analysis Report**

| **Feature Area** | **Requirement** | **Acceptance Criteria** |
| --- | --- | --- |
| Cart Management | Remove products | Clicking “Remove” deletes the correct product from cart instantly. |

**3. Module-Wise Test Cases**

| **TC ID** | **Module** | **Description** | **Preconditions** | **Steps** | **Expected Result** |
| --- | --- | --- | --- | --- | --- |
| TC-021 | Cart | Remove single product | Product in cart | Click “Remove” | Product gone from cart |
| TC-022 | Cart | Remove multiple products | Products in cart | Remove all items | Cart empty |
| TC-023 | Cart | Remove and undo | Products in cart | Remove, click undo | Product restored |
| TC-024 | Cart | Remove last product | Product in cart | Remove last product | Cart shows empty message |
| TC-025 | Cart | Remove from mini cart | Products in cart | Remove via mini cart popup | Product removed |

**4. Execution Report**

| **TC ID** | **Date** | **Tester** | **Status** | **Remarks** |
| --- | --- | --- | --- | --- |
| TC-021 | 2025-08-9 | Tester1 | Pass | — |
| TC-022 | 2025-08-9 | Tester1 | Pass | — |
| TC-023 | 2025-08-9 | Tester1 | Fail | Undo not working |
| TC-024 | 2025-08-9 | Tester1 | Pass | — |
| TC-025 | 2025-08-9 | Tester1 | Pass | — |

**5. Defect Identification**

| **Defect ID** | **TC ID** | **Summary** | **Severity** | **Priority** |
| --- | --- | --- | --- | --- |
| D-005 | TC-023 | Undo remove not functioning | Low | Medium |

**6. Defect Report**

| **Defect ID** | **Title** | **Steps to Reproduce** | **Expected** | **Actual** | **Severity** | **Priority** | **Status** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| D-005 | Undo not working | Remove product, click undo | Product restored | Product remains removed | Low | Medium | Open |

**7. Test Analysis Report**

* Total: 5, Passed: 4, Failed: 1
* Quality: Minor issue in undo feature.