**Q4|[Mark 40]** Now there is a happy path journey for searching with the text “Nike react phantom run flyknit 2”. Add a couple of small-sized black products to your cart. Then verify the Cart. Now execute the journeys from both API and UI. Now provide feedback on your test analysis, keep logs of the defects, and generate a report.

**Feedback and Analysis of Test Results**

**UI Testing:**

| **Test Case ID** | UI\_01 |
| --- | --- |
| **Title** | Search, add and verify "Nike react phantom run flyknit 2" shoes to the cart |
| **Precondition** | The user is on the search page and has a good internet connection |
| **Steps** | Open the website and navigate to the search bar |
|  | Enter the search text "Nike react phantom run flyknit 2" and press the search |
|  | In the search results, click on the correct product (black one) |
|  | Select size S (small) |
|  | Notice if the shoe color changes to pink (defect) |
|  | Manually switch the color to black again |
|  | In the quantity box, enter 2 and click on "Add to Cart" |
|  | Click on "View Cart" to review your items and verify the total amount |
| **Expected Result** | **Actual Result** |
| The search result should be correct with the search name | The search result shows the correct products |
| While clicking on the black item product, all the information about that particular product should be visible | The black item’s information is shown correctly after clicking on it |
| The product should stay black when selecting size S | The product changed to pink when selecting size S (defect) |
| The product should stay black when selecting the color black with other correct information | All the information about black products is correctly visible when selecting the color black |
| Two items should be added to the cart | The cart added two black items as mentioned |
| The cart view should show 2 items in black color with the correct total price | The cart correctly showed 2 black shoes after choosing the color again and the price is also correct |
| **Defect ID** | DEF01 - Color Switching Issue |

**API Testing:**

| **Test Case ID** | API\_01 |
| --- | --- |
| **Title** | Search, add and verify "Nike react phantom run flyknit 2" shoes to the cart via API |
| **Precondition** | The user must be logged in Postman and make collection with request |
| **Step 1: Product Search** |  |
| **Endpoint** | GET {{URL}}/search?keyword=Nike+react+phantom+run+flyknit+2 |
| **Expected Result** | The API should return a 200 OK response with the product details |
| **Actual Result** | The product details were returned correctly with available sizes and colors |
| **Status** | **Pass** |
| **Step 2: Click on the correct Product** |  |
| **Endpoint** | GET  {{URL}}/men/nike-react-phantom-run-flyknit-2-182 |
| **Expected Result** | The API should return a 200 OK response with the correct product information |
| **Actual Result** | The correct product information has been returned perfectly. |
| **Status** | **Pass** |
| **Step 3: Click on Size s** |  |
| **Endpoint** | GET  {{URL}}/men/nike-react-phantom-run-flyknit-2-182?size=25&ajax=true |
| **Expected Result** | The API should return a 200 OK response with the correct size product and the size is 25 |
| **Actual Result** | The s size product has been returned correctly |
| **Status** | **Pass** |
| **Step 4: Click on the color Black** |  |
| **Endpoint** | GET  {{URL}}/men/nike-react-phantom-run-flyknit-2-182?size=25&color=14&ajax=true |
| **Expected Result** | The API should return a 200 OK response with the correct color and the color code is 14 |
| **Actual Result** | The black color (code 14) product has been returned correctly |
| **Status** | **Pass** |
| **Step 5: Items Add to Cart** |  |
| **Endpoint** | POST  {{URL}}/api/cart/mine/items |
| **Request Body** | {"sku": "NJC48508-Black-S", "qty": "2"} |
| **Expected Result** | The API should return **200 OK** with a confirmation that **2 black size S** shoes were added to the cart |
| **Actual Result** | The response returned successfully with the correct product in the cart |
| **Status** | **Pass** |
| **Step 6: View Cart** |  |
| **Endpoint** | GET  {{URL}}/cart/ |
| **Expected Result** | The API should return **200 OK** with the correct items in the cart and the total price |
| **Actual Result** | The cart displayed the correct total price and 2 black shoes in size S correctly |
| **Status** | **Pass** |

**Defect Log on UI Testing:**

| **Defect ID** | **DEF01** |
| --- | --- |
| **Title** | Color Changes to Pink when Selecting Size S |
| **Severity** | Medium |
| **Description** | When selecting size "S" for the shoe "Nike react phantom run flyknit 2", the color automatically changes to pink instead of remaining black |
| **Steps to Reproduce** | 1. Search for the product  2. Select size "S"  3. Observe the color change to pink |
| **Expected Result** | The color should remain black when selecting size "S" |
| **Actual Result** | The color changed to pink |
| **Status** | Open |

**Test Summary Report:**

| **Test Case ID** | **Description** | **Status** | **Remarks** |
| --- | --- | --- | --- |
| UI\_01 | Search, add and verify "Nike react phantom run flyknit 2" shoes to the cart | Pass with Defects | Color changed when selecting size "S" (DEF01) |
| API\_01 | Search, add and verify "Nike react phantom run flyknit 2" shoes to the cart via API | Pass | All API calls returned the expected results |

Extra: I explored the PATCH and DELETE requests on the cart view page and noticed some discrepancies. When I increased the quantity of an item from 2 to 3, the quantity jumped to 4, same way, when I increased it from 3 to 4, the quantity jumped to 5. Similarly, when I tried to increase the quantity from 4 to 5, the response showed quantity 7. Despite this, I consistently received a 200 OK status. However, when I sent a DELETE request to remove the item (setting the quantity to 0), it returned a 500 Internal Server Error with a 'Cart not found' message.