20.4 Test Design Techniques: White, Gray, Black box: Homework

- **Think about the smoke testing for the product page functionality:**
- What user's scenarios should be covered as a priority (black box, user's perspective)
- What smoke tests for API calls should be covered as a priority (gray box)
- Create one black box test case and one gray box test case

- **Example (what is expected in the HW):**
- The main Users' scenarios on the product page are … (consider the scenarios from opening the product page to putting a product in a cart)
- To test them using the black box approach, we need to perform the following smoke tests:
- For example, this smoke test case (link to QACoverage) could be used for black box testing of the product page
- The API calls on the product page are … This API call is requested when the user <what the user do>, this API call is requested when …
- To cover these API calls with smoke tests using the gray box approach, is needed …
- For example, this smoke test case (link to QACoverage) could be used for gray box testing of the product page

The user's scenarios on the product page which should be covered as a priority:
    Searching for "product" in search bar,
    Searching/ Choosing a product by category,
    Filtering by size,
    Filtering by price,
    Quick shopping,
    Adding a product to cart and proceed to checkout,
    Placing an order and receiving a confirmation email.
    **
    Users' scenarios with lower priority, in my opinion:
    Sorting by popularity, price or by any other options,
    Viewing the product details,
    Filtering by color,
    Adding to favorites,
    Comparing of products,
    Shop the Look.

- To test user's scenarios using the black box approach, we need to perform the following smoke tests which should be covered as a priority:

Searching for product in "search bar", filtering by *size*, adding a product to cart and proceed to checkout, placing an order and receiving a confirmation email.
Searching for product in "search bar", filtering by *price*, adding a product to cart and proceed to checkout, placing an order and receiving a confirmation email.
Searching for product in "search bar", filtering by *size*, "quick shop" and proceed to checkout, placing an order and receiving a confirmation email.
Searching for product in "search bar", filtering by *price*, "quick shop" and proceed to checkout, placing an order and receiving a confirmation email.
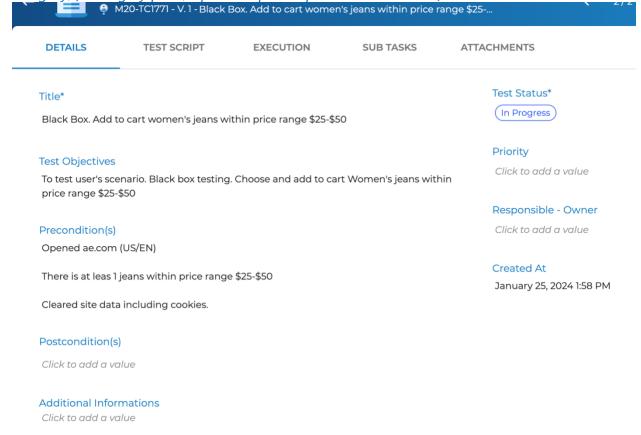
Similar smoke tests will be when a user starting from choosing a product by category:
Choosing a product by category, filtering by *size*, adding a product to cart and proceed to checkout, placing an order and receiving a confirmation email.
Choosing a product by category filtering by *price*, adding a product to cart and proceed to checkout, placing an order and receiving a confirmation email.
Choosing a product by category, filtering by *size*, "quick shop" and proceed to checkout, placing an order and receiving a confirmation email.
Choosing a product by category, filtering by *price*, "quick shop" and proceed to checkout, placing an order and receiving a confirmation email.

For example, this smoke test case
M20-TC1771 - V. 1 - Black Box. Add to cart women's jeans within price range $25-$50
could be used for black box testing of the product page. *(Choosing a product by category, filtering by price, "quick shop" and proceed to checkout)*

DETAILS	TEST SCRIPT	EXECUTION	SUB TASKS	ATTACHMENTS

Title*

Black Box. Add to cart women's jeans within price range $25-$50

Test Status*

In Progress

Test Objectives

To test user's scenario. Black box testing. Choose and add to cart Women's jeans within price range $25-$50

Priority

Click to add a value

Precondition(s)

Opened ae.com (US/EN)

There is at leas 1 jeans within price range $25-$50

Cleared site data including cookies.

Responsible - Owner

Click to add a value

Created At

January 25, 2024 1:58 PM

Postcondition(s)

Click to add a value

Additional Informations

Click to add a value

Category: Steps

Steps ☁

#	Test Instructions	Test Data	Expected Results
1	Navigate to jeans in Main Menu. In drop-down menu in section Woman's jeans Click 'View all'.	*Click to add text*	Opened page 'Women's Jeans'.
2	Navigate to the area with 'filters area' in the middle of the page (under 'New Arrivals'). Click on button '25-50'.	*Click to add text*	Opened filtered page with jeans $25-$50. In 'filters area' in the middle of the page '$25-$50' button colored in 'black' (choosen). In Left-side menu in section 'Filter + Sort' shown filter '$25-$50'. Opened sub-menu 'Price'. Checked $25-$50 check-box.
3	Choose one of the jeans. Click on 'Quick Shop' button.	For example: https://www.ae.com/us/en/p/0437_4579_9 22 **"AE Dreamy Drape Super High-Waisted Baggy Ultra Wide-Leg Jea** Price: $29.97.	Opened 'Quick Shop' pop-up window on the right side of the page. Presented pictures of the jeans, Color, Price, Size details, Drop-down list "Size", Drop-down list "Quantity", Button "Add to bag", Button "Add to fovorites".
4	In drop-down list "Size" choose size. In drop-down list "Quantity" choose quantity. Press 'Add to bag' button.	Size = 4 Regular. Quantity = 1.	Opened 'Added to bag' pop-up window from the fight side of the page. Displayed pictire of the jeans, Name of the jeans **"AE Dreamy Drape Super High-Waisted Baggy Ultra Wide-Leg Jean",** Price $29,97, Color: Cool Classic, Size: 4 Regular, Qty: 1 Presented buttons: "Keep Shopping", "View Bag". Displayed "**You may also like...**" section with different products.

⠿ 5	Press "View Bag" button.	*Click to add text*	Closed pop-up window. Opened regular page 'Shopping Bag'. There is 1 item in the bag. Displayed pictire of the jeans, Name of the jeans **"AE Dreamy Drape Super High-Waisted** **Baggy Ultra Wide-Leg Jean",** Price $29,97, Style: 0437-4579 Color: Cool Classic, Size: 4 Regular, Qty: 1 Displayed Order Summary: Merchandise: Price of choosen jeans (from step 3 = $29.97). Estimated Shipping: (i.e. $7.95). Sub Total: $37.92.

The API calls on the product page are:
POST
GET
Smoke tests for API calls should be covered as a priority:
Product category – user choosing category.
Filtering – user filtering results by any category.
Choosing size – user choosing a size of product,
Choosing color – user choosing a color of product,
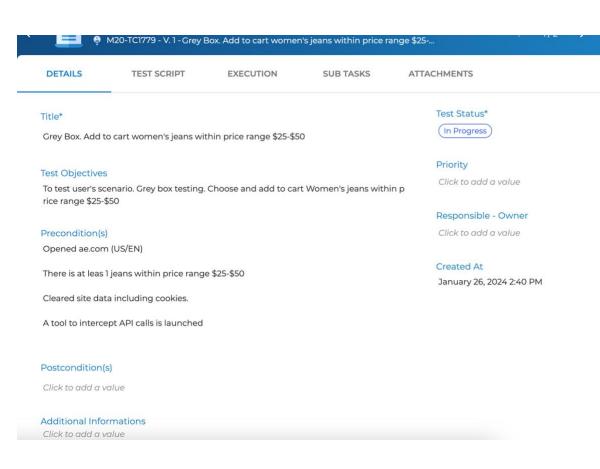Choosing quantity – user choosing a quantity of product (adds or decreases),
Displaying a price, discounts – without user interaction.
Viewing a product details – without user interaction.

For example, this smoke test case
M20-TC1779 - V. 1 - Grey Box. Add to cart women's jeans within price range
$25-$50
could be used for gray box testing of the product page. *(Choosing a product by category, filtering by price, choosing details and proceed to checkout)*

DETAILS   TEST SCRIPT   EXECUTION   SUB TASKS   ATTACHMENTS

Title*

Grey Box. Add to cart women's jeans within price range $25-$50

Test Objectives

To test user's scenario. Grey box testing. Choose and add to cart Women's jeans within price range $25-$50

Precondition(s)

Opened ae.com (US/EN)

There is at leas 1 jeans within price range $25-$50

Cleared site data including cookies.

A tool to intercept API calls is launched

Postcondition(s)

Click to add a value

Additional Informations
Click to add a value

Test Status*
In Progress

Priority

Click to add a value

Responsible - Owner

Click to add a value

Created At

January 26, 2024 2:40 PM

DETAILS   TEST SCRIPT   EXECUTION   SUB TASKS   ATTACHMENTS

Category: Steps

Steps

#	Test Instructions	Test Data	Expected Results
1	Navigate to jeans in Main Menu. In drop-down menu in section Woman's jeans Click 'View all'.	Click to add text	Opened page 'Women's Jeans'. POST and GET requests are sent. Returned Response OK 200.
2	Navigate to the area with 'filters area' in the middle of the page (under 'New Arrivals'). Click on button '25-50'.	Click to add text	Opened filtered page with jeans $25-$50. In 'filters area' in the middle of the page '$25-$50' button colored in 'black' (choosen). In Left-side menu in section 'Filter + Sort' shown filter '$25-$50'. Opened sub-menu 'Price'. Checked $25-$50 check-box. POST and GET requests are sent. Returned Response OK 200.

⠿ 3	Choose one of the jeans. Click on "Jeans Name" link.	For example: https://www.ae.com/us/en/p/0437_4579_922 **"AE Dreamy Drape Super High-Waisted Baggy Ultra Wide-Leg Jea** Price: $***.	Opened product page (with detailed information about jeans). Presented pictures of the jeans, Color, Price, Size details, Drop-down list "Size", Drop-down list "Quantity", Button "Add to bag", Button "Add to fovorites". POST and GET requests are sent. Returned Response OK 20
⠿ 4	In drop-down list "Size" choose size. In drop-down list "Quantity" choose quantity. Press 'Add to bag' button.	Size. Quantity .	Opened 'Added to bag' pop-up window from the fight side of the page. Displayed pictire of the jeans, Name of the jeans **"AE Dreamy Drape Super High-Waisted Baggy Ultra Wide-Leg Jean",** Price $, Color: Cool Classic, Size:, Qty:, Presented buttons: "Keep Shopping", "View Bag" POST and GET requests are sent. Reterned Response OK 200.
⠿ 5	Press "View Bag" button.	*Click to add text*	Opened 'Shopping Bag' page. Displayed pictire of the jeans, Name of the jeans **"AE Dreamy Drape Super High-Waisted Baggy Ultra Wide-Leg Jean",** Price $ Style: 0437-4579 Color: Cool Classic, Size:, Qty:. Displayed Order Summary: Merchandise: Price of choosen jeans (from step 3). Estimated Shipping: (i.e. $7.95). Sub Total: $. POST and GET requests are sent. Returned Response OK 200.