

21.4 Test Design Techniques: Equivalence classes and Boundary Values analysis: Homework

Think about the regression testing for the product page functionality (black box testing):

1. What equivalence classes and boundary values could be defined for color? What values should be used to test color using this approach?
2. What equivalence classes and boundary values could be defined for size? What values should be used to test size using this approach?
3. What equivalence classes and boundary values could be defined for quantity? What values should be used to test quantity using this approach?
4. Write one test case for each parameter.

1. What equivalence classes and boundary values could be defined for color? What values should be used to test color using this approach?

Equivalence classes:

- Positive value (any one color (picture), any one color (description), any one color (picture + description), “multicolor” (combination of some colors),
- Negative value (not chosen color, not existing color).

Boundary values:

- 1 color,
- 0 (not chosen color),
- All colors.

The list of values we should use to cover the product color parameter:

- any one color (picture),
- any one color (description) - letters,
- any one color (picture + description),
- “multicolor” (combination of some colors) (not all of them),
- not chosen color, empty value,
- not existing color, invalid value,
- symbols,
- all colors.

Example of test case:

M20-TC1822 - V. 1 - Black box. Changing Color of product:

M20-TC1822 - V. 1 - Black box. Changing Color of product.

DETAILS

TEST SCRIPT

EXECUTION

SUB TASKS

ATTACHMENTS

Title*

Black box. Changing Color of product.

Test Status*

In Progress

Test Objectives

To check changing Color of the product.

Priority

Click to add a value

Precondition(s)

Opened ae.com
There is at least 1 product with 2 different colors.

Responsible - Owner

Click to add a value

Opened product page.
In "Color" area "Radio button" "Color" is checked. "Radio button" displayed a picture of th
at color and description of the color.
Displayed picture/pictures of product with chosen color.

Created At

January 29, 2024 6:49 PM

Postcondition(s)

Click to add a value

Additional Informations

Product:
https://www.ae.com/us/en/p/men/hoodies-sweatshirts/active-hoodies/ae-24-7-cotton-hoodie/0195_2209_410?menu=cat4840004

DETAILS

TEST SCRIPT

EXECUTION

SUB TASKS

ATTACHMENTS

Category: Steps

Steps

#	Test Instructions	Test Data	Expected Results
1	Navigate to "Color" area of the product.	Click to add text	
2	Check the "Radio button" with another color.	Click to add text	Opened a page with new product (changed URI, parameters). "Radio button" with chosen color checked. "Radio button" displayed a "picture" of that color and description of the color. On the page Displayed picture/pictures of the product with chosen color.

2. What equivalence classes and boundary values could be defined for size? What values should be used to test size using this approach?

Equivalence classes:

- Positive value (numeric size, size in length (in), size in letters, shoes size, bra size)
- Negative value (not chosen size, not existing size).

Boundary values:

- 1 size,
- 0 (not chosen size),
- not existing size,
- All sizes.

The list of values we should use to cover the product size parameter:

- numeric size, shoes size, size in length (in) - (numbers),
- size in letters (letters),
- bra size (letters + numbers),
- letters + numbers,
- symbols from non latin alphabet,
- spaces inside,
- different combination of symbols,
- allowed special symbols.

Example of test case:

M20-TC1827 - V. 1 - Black box. Changing Size of the product

M20-TC1827 - V. 1 - Black box. Changing Size of the product

DETAILS

TEST SCRIPT

EXECUTION

SUB TASKS

ATTACHMENTS

Title*

Black box. Changing Size of the product

Test Status*

In Progress

Test Objectives

To check changing Size of the product .

Priority

Click to add a value

Precondition(s)

Opened ae.com

Cleared cookies and site data

There is at least 1 product with 2 different sizes.

Responsible - Owner

Click to add a value

Created At

January 30, 2024 2:32 PM

Opened product page.

In "Size" area "Drop-down" menu is empty (description = "Size").

Postcondition(s)

Click to add a value

Additional Informations

Product:

https://www.ae.com/us/en/p/men/shoes/sneakers/new-balance-men-s-574-sneaker/7213_7499_558?menu=cat4840004

DETAILS	TEST SCRIPT	EXECUTION	SUB TASKS	ATTACHMENTS
Category: Steps				
Steps				
#	Test Instructions	Test Data	Expected Results	
1	Navigate to "Size" area of the product.	Click to add text		
2	Click on "Size". Choose one of the available sizes in drop-down menu.	Click to add text	Drop-down menu "Size" closed. In field "Size" displayed chosen size. "Add to bag" button is available.	
3	Press "Add to bag" button.	Click to add text	In Pop-up window "Added to bag" displayed chosen size.	

3. What equivalence classes and boundary values could be defined for quantity? What values should be used to test quantity using this approach?

Equivalence classes:

- Positive value (numeric qty)
- Negative value (not chosen qty, not allowed qty).

Boundary values:


- 1,
- 0 (not chosen qty),
- 9 (maximum allowed qty to purchase).

The list of values we should use to cover the product quantity parameter:

- numeric value - (numbers),
- letters,
- letters + numbers,
- letters from non latin alphabet,
- spaces inside,
- different combination of symbols,
- special symbols.

Example of test case:

M20-TC1824 - V. 1 - Black box. Choosing maximum available quantity of product.


M20-TC1824 - V. 1 - Black box. Choosing maximum available quantity of prod...

DETAILS	TEST SCRIPT	EXECUTION	SUB TASKS	ATTACHMENTS
<p>Title*</p> <p>Black box. Choosing maximum available quantity of product.</p>		<p>Test Status*</p> <p>In Progress</p>		
<p>Test Objectives</p> <p>To check possibility to choose maximum available quantity of product.</p>		<p>Priority</p> <p>Click to add a value</p>		
<p>Precondition(s)</p> <p>Opened ae.com</p> <p>Cleared cookies and site data</p> <p>There is at least 1 product with maximum quantity = 9.</p> <p>Opened product page.</p> <p>Chosen available "Size" of a product.</p> <p>In "QTY" area displayed qty = 1.</p>		<p>Responsible - Owner</p> <p>Click to add a value</p>		
<p>Postcondition(s)</p> <p>Click to add a value</p>		<p>Created At</p> <p>January 30, 2024 8:59 AM</p>		
<p>Additional Informations</p> <p>Product:</p> <p>https://www.ae.com/us/en/p/women/dresses/mini-dresses/ae-knit-racerback-mini-dress/1399_7529_207?menu=cat4840004</p>				

Category: Steps



Steps

— #	Test Instructions	Test Data	Expected Results
⋮ 1	Navigate to "QTY" area of the product.	<i>Click to add text</i>	
⋮ 2	Click on "+" till QTY is reaching 9.	9	In field "QTY" displayed chosen quantity. Button "+" not active / not available. Button "-" active /available. "Add to bag" button is available / active.
⋮ 3	Press "Add to bag" button.	<i>Click to add text</i>	In Pop-up window "Added to bag" displayed chosen qty.