**User scenario 1 – Login**

**TC-001: Login using valid credentials for standard\_user**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Steps to reproduce** | **Test data** | **Expected result** |
| 1. | Open login page | Login page: https://www.saucedemo.com/v1/index.html | Successfully opened login page |
| 2. | Enter valid username in username field | Username: standard\_user | Successfully entered username in the given field |
| 3. | Enter valid password in password field | Password: secret\_sauce | Successfully entered username in the given field |
| 4. | Click on ‘LOGIN’ button |  | User is successfully logged in and transferred to homepage |

**TC-002: Login without entering username**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Steps to reproduce** | **Test data** | **Expected result** |
| 1. | Open login page | Login page: https://www.saucedemo.com/v1/index.html | Successfully opened login page |
| 2. | Leave username field empty |  | Username field is left empty |
| 3. | Enter valid password in password field | Password: secret\_sauce | Successfully entered username in the given field |
| 4. | Click on ‘LOGIN’ button |  | User gets error message: ‘Top of Form  Epic sadface: Username is required’  Bottom of Form |

**TC-003: Login without entering password**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Steps to reproduce** | **Test data** | **Expected result** |
| 1. | Open login page | Login page: https://www.saucedemo.com/v1/index.html | Successfully opened login page |
| 2. | Enter valid username in username field | Username: standard\_user | Successfully entered username in the given field |
| 3. | Leave password field empty |  | Password field is empty |
| 4. | Click on ‘LOGIN’ button |  | User gets error message: ‘Top of Form  Epic sadface: Password is required’  Bottom of Form |

**TC-004: Login without entering any credentials**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Steps to reproduce** | **Test data** | **Expected result** |
| 1. | Open login page | Login page: https://www.saucedemo.com/v1/index.html | Successfully opened login page |
| 2. | Leave username field empty |  | Username field is empty |
| 3. | Leave password field empty |  | Password field is empty |
| 4. | Click on ‘LOGIN’ button |  | User gets error message: ‘Top of Form  Epic sadface: Username is required’  Bottom of Form |

**TC-005: Login using credentials which are not from the list**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Steps to reproduce** | **Test data** | **Expected result** |
| 1. | Open login page | Login page: https://www.saucedemo.com/v1/index.html | Successfully opened login page |
| 2. | Enter invalid username in username field | Username: Test 1 | Successfully entered username in the given field |
| 3. | Enter invalid password in password field | Password: Test 1 | Successfully entered password in the given field |
| 4. | Click on ‘LOGIN’ button |  | User gets error message: ‘Epic sadface: Username and password do not match any user in this service |

**TC-006: Login using valid credentials for locked\_out\_user**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Steps to reproduce** | **Test data** | **Expected result** |
| 1. | Open login page | Login page: https://www.saucedemo.com/v1/index.html | Successfully opened login page |
| 2. | Enter valid username in username field | Username: locked\_out\_user | Successfully entered username in the given field |
| 3. | Enter valid password in password field | Password: secret\_sauce | Successfully entered password in the given field |
| 4. | Click on ‘LOGIN’ button |  | User gets error message: ‘Epic sadface: Sorry, this user has been locked out.’ |

**Additional test cases:**

**TC-007:** Login using invalid username (invalid username, but valid password)

**TC-008:** Login using invalid password (valid username, but invalid password)

**TC-009:** Login using valid credentials for problem\_user

**TC-010:** Login using valid credentials for performance\_glitch\_user

**User scenario 2 – Adding times to Cart and removing them**

**TC-011: Add item to the cart**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Steps to reproduce** | **Test data** | **Expected result** |
| 1. | Open login page | Login page: https://www.saucedemo.com/v1/index.html | Successfully opened login page |
| 2. | Enter valid username in username field | Username: standard\_user | Successfully entered username in the given field |
| 3. | Enter valid password in password field | Password: secret\_sauce | Successfully entered password in the given field |
| 4. | Click on ‘LOGIN’ button |  | User is successfully logged in and transferred to homepage |
| 5. | On homepage, click on ‘ADD TO CART’ button for ‘Sauce Labs Backpack’ item |  | Item is added to the cart and the cart image has number 1 next to it; additionally, item has ‘REMOVE’ button next to it |
| 6. | Click on cart image in the upper right corner |  | Cart is opened, and we see ‘Sauce Labs Backpack’ item with the quantity of 1 |

**TC-012: Remove item from homepage**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Steps to reproduce** | **Test data** | **Expected result** |
| 1. | Open login page | Login page: https://www.saucedemo.com/v1/index.html | Successfully opened login page |
| 2. | Enter valid username in username field | Username: standard\_user | Successfully entered username in the given field |
| 3. | Enter valid password in password field | Password: secret\_sauce | Successfully entered password in the given field |
| 4. | Click on ‘LOGIN’ button |  | User is successfully logged in and transferred to homepage |
| 5. | On homepage, click on ‘ADD TO CART’ button for ‘Sauce Labs Backpack’ item |  | Item is added to the cart and the cart image has number 1 next to it; additionally, item has ‘REMOVE’ button next to it |
| 6. | Click on ‘REMOVE’ button next to the ‘Sauce Labs Backpack’ item |  | Cart has no numbers next to its image; additionally, item has ‘ADD TO CART’ button next to it |
| 7. | Click on cart image |  | Page which leads to cart is successfully opened; there are no items showing on this page. |

**TC-013: Remove item from the cart page**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Steps to reproduce** | **Test data** | **Expected result** |
| 1. | Open login page | Login page: https://www.saucedemo.com/v1/index.html | Successfully opened login page |
| 2. | Enter valid username in username field | Username: standard\_user | Successfully entered username in the given field |
| 3. | Enter valid password in password field | Password: secret\_sauce | Successfully entered password in the given field |
| 4. | Click on ‘LOGIN’ button |  | User is successfully logged in and transferred to homepage |
| 5. | On homepage, click on ‘ADD TO CART’ button for ‘Sauce Labs Backpack’ item |  | Item is added to the cart and the cart image has number 1 next to it; additionally, item has ‘REMOVE’ button next to it |
| 6. | Click on cart image |  | Page which leads to cart is successfully opened |
| 7. | Click on ‘REMOVE’ button next to the ‘Sauce Labs Backpack’ item |  | Cart has no numbers next to its image; the cart page is empty |

**TC-014: Remove item from item’s description**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Steps to reproduce** | **Test data** | **Expected result** |
| 1. | Open login page | Login page: https://www.saucedemo.com/v1/index.html | Successfully opened login page |
| 2. | Enter valid username in username field | Username: standard\_user | Successfully entered username in the given field |
| 3. | Enter valid password in password field | Password: secret\_sauce | Successfully entered password in the given field |
| 4. | Click on ‘LOGIN’ button |  | User is successfully logged in and transferred to homepage |
| 5. | On homepage, click on ‘ADD TO CART’ button for ‘Sauce Labs Backpack’ item |  | Item is added to the cart and the cart image has number 1 next to it; additionally, item has ‘REMOVE’ button next to it |
| 6. | Click on image for ‘Sauce Labs Backpack’ item |  | Item is successfully opened with additional description |
| 7. | Click on ‘REMOVE’ button next to the price for the item |  | Cart has no numbers next to its image; additionally, item has ‘ADD TO CART’ button next to it |
| 8. | Click on ‘Back’ button in the upper right corner |  | Successfully transferred to the homepage |
| 9. | Click on cart image |  | Page which leads to cart is successfully opened; there are no items showing on this page |

‘

**TC-015 – Add item to the cart using problem\_user**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Steps to reproduce** | **Test data** | **Expected result** |
| 1. | Open login page | Login page: https://www.saucedemo.com/v1/index.html | Successfully opened login page |
| 2. | Enter valid username in username field | Username: problem\_user | Successfully entered username in the given field |
| 3. | Enter valid password in password field | Password: secret\_sauce | Successfully entered password in the given field |
| 4. | Click on ‘LOGIN’ button |  | User is successfully logged in and transferred to homepage |
| 5. | On homepage, click on ‘ADD TO CART’ button for ‘Sauce Labs Backpack’ item |  | Item is added to the cart and the cart image has number 1 next to it; additionally, item has ‘REMOVE’ button next to it |
| 6. | Click on cart image in the upper right corner |  | Cart is opened, and we see ‘Sauce Labs Backpack’ item with the quantity of 1 |

**TC-016- Remove item from the cart using problem\_user**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Steps to reproduce** | **Test data** | **Expected result** |
| 1. | Open login page | Login page: https://www.saucedemo.com/v1/index.html | Successfully opened login page |
| 2. | Enter valid username in username field | Username: problem\_user | Successfully entered username in the given field |
| 3. | Enter valid password in password field | Password: secret\_sauce | Successfully entered password in the given field |
| 4. | Click on ‘LOGIN’ button |  | User is successfully logged in and transferred to homepage |
| 5. | On homepage, click on ‘ADD TO CART’ button for ‘Sauce Labs Backpack’ item |  | Item is added to the cart and the cart image has number 1 next to it; additionally, item has ‘REMOVE’ button next to it |
| 6. | Click on cart image |  | Page which leads to cart is successfully opened |
| 7. | Click on ‘REMOVE’ button next to the ‘Sauce Labs Backpack’ item |  | Cart has no numbers next to its image; there are no items showing on this page |

Additional test cases:  
  
**TC-017**: remove item from homepage using problem\_user – FAILING

**TC-018**: remove item from item’s description using problem\_user – FAILING

**User scenario 3 – Cart quantity**

**TC-019: Add multiple items to the cart**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Steps to reproduce** | **Test data** | **Expected result** |
| 1. | Open login page | Login page: https://www.saucedemo.com/v1/index.html | Successfully opened login page |
| 2. | Enter valid username in username field | Username: standard\_user | Successfully entered username in the given field |
| 3. | Enter valid password in password field | Password: secret\_sauce | Successfully entered password in the given field |
| 4. | Click on ‘LOGIN’ button |  | User is successfully logged in and transferred to homepage |
| 5. | On homepage, click on ‘ADD TO CART’ button for ‘Sauce Labs Backpack’ item |  | Item is added to the cart and the cart image has number 1 next to it; additionally, item has ‘REMOVE’ button next to it |
| 6. | On homepage, click on ‘ADD TO CART’ button for ‘Sauce Labs Bike Light’ item |  | Item is added to the cart and the cart image has number 2 next to it; additionally, item has ‘REMOVE’ button next to it |
| 7. | Click on cart image in the upper right corner |  | Cart page is opened, and we see ‘Sauce Labs Backpack’ and ‘Sauce Labs Bike Light’ items with the quantity of 1 |

**TC-020: Remove items from the cart page**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Steps to reproduce** | **Test data** | **Expected result** |
| 1. | Open login page | Login page: https://www.saucedemo.com/v1/index.html | Successfully opened login page |
| 2. | Enter valid username in username field | Username: standard\_user | Successfully entered username in the given field |
| 3. | Enter valid password in password field | Password: secret\_sauce | Successfully entered password in the given field |
| 4. | Click on ‘LOGIN’ button |  | User is successfully logged in and transferred to homepage |
| 5. | On homepage, click on ‘ADD TO CART’ button for ‘Sauce Labs Backpack’ item |  | Item is added to the cart and the cart image has number 1 next to it; additionally, item has ‘REMOVE’ button next to it |
| 6. | On homepage, click on ‘ADD TO CART’ button for ‘Sauce Labs Bike Light’ item |  | Item is added to the cart and the cart image has number 2 next to it; additionally, item has ‘REMOVE’ button next to it |
| 7 | Click on cart image |  | Cart page is opened, and we see ‘Sauce Labs Backpack’ and ‘Sauce Labs Bike Light’ items with the quantity of 1 |
| 8. | Click on ‘REMOVE’ button next to the ‘Sauce Labs Backpack’ item |  | Cart has number 1 next to its image; additionally, it is showing only ‘Sauce Labs Bike Light’ item with the quantity of 1 |
| 9. | Click on ‘REMOVE’ button next to the ‘Sauce Labs Bike Light’ item |  | Cart has no numbers next to its image; cart page is empty |

**TC-021 – Remove items from homepage**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Steps to reproduce** | **Test data** | **Expected result** |
| 1. | Open login page | Login page: https://www.saucedemo.com/v1/index.html | Successfully opened login page |
| 2. | Enter valid username in username field | Username: standard\_user | Successfully entered username in the given field |
| 3. | Enter valid password in password field | Password: secret\_sauce | Successfully entered password in the given field |
| 4. | Click on ‘LOGIN’ button |  | User is successfully logged in and transferred to homepage |
| 5. | On homepage, click on ‘ADD TO CART’ button for ‘Sauce Labs Backpack’ item |  | Item is added to the cart and the cart image has number 1 next to it; additionally, item has ‘REMOVE’ button next to it |
| 6. | On homepage, click on ‘ADD TO CART’ button for ‘Sauce Labs Bike Light’ item |  | Item is added to the cart and the cart image has number 2 next to it; additionally, item has ‘REMOVE’ button next to it |
| 7 | Click on ‘REMOVE’ button next to the ‘Sauce Labs Backpack’ item |  | Cart has number 1 next to its image; additionally, ‘Sauce Labs Backpack’ item has ‘ADD TO CART’ button next to it |
| 8. | Click on ‘REMOVE’ button next to the ‘Sauce Labs Backpack’ item |  | Cart has no number next to its image; additionally, ‘Sauce Labs Backpack’ item has ‘ADD TO CART’ button next to it |
| 9. | Click on cart image |  | Cart page is opened, and it is empty; there are no items showing in the cart |

**TC-022: Remove items from item description**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Steps to reproduce** | **Test data** | **Expected result** |
| 1. | Open login page | Login page: https://www.saucedemo.com/v1/index.html | Successfully opened login page |
| 2. | Enter valid username in username field | Username: standard\_user | Successfully entered username in the given field |
| 3. | Enter valid password in password field | Password: secret\_sauce | Successfully entered password in the given field |
| 4. | Click on ‘LOGIN’ button |  | User is successfully logged in and transferred to homepage |
| 5. | On homepage, click on ‘ADD TO CART’ button for ‘Sauce Labs Backpack’ item |  | Item is added to the cart and the cart image has number 1 next to it; additionally, item has ‘REMOVE’ button next to it |
| 6. | On homepage, click on ‘ADD TO CART’ button for ‘Sauce Labs Bike Light’ item |  | Item is added to the cart and the cart image has number 2 next to it; additionally, item has ‘REMOVE’ button next to it |
| 7 | Click on image for ‘Sauce Labs Backpack’ item |  | Item is successfully opened with additional description |
| 8. | Click on ‘REMOVE’ button next to the price for the item |  | Cart has number 1 next to its image; additionally, item has ‘ADD TO CART’ button next to it |
| 9. | Click on ‘Back’ button in the upper right corner |  | Successfully transferred to the homepage |
| 10. | Click on image for ‘Sauce Labs Bike Light’ item |  | Item is successfully opened with additional description |
| 11. | Click on ‘REMOVE’ button next to the price for the item |  | Cart has no number next to its image; additionally, item has ‘ADD TO CART’ button next to it |
| 12. | Click on cart image |  | Cart is opened, and it is empty; there are no items showing in the cart |

Additional test cases:  
  
**TC-023**: remove multiple items from homepage using problem\_user – FAILING

**TC-024:** remove multiple items from item’s description using problem\_user – FAILING

**User scenario 4 – About page**

**TC-025: Go to ‘About’ page as standard\_user**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Steps to reproduce** | **Test data** | **Expected result** |
| 1. | Open login page | Login page: https://www.saucedemo.com/v1/index.html | Successfully opened login page |
| 2. | Enter valid username in username field | Username: standard\_user | Successfully entered username in the given field |
| 3. | Enter valid password in password field | Password: secret\_sauce | Successfully entered password in the given field |
| 4. | Click on ‘LOGIN’ button |  | User is successfully logged in and transferred to homepage |
| 5. | Click on the Navigation menu in the upper left corner – at the image of three lines |  | Navigation menu is successfully opened |
| 6. | Click on the ‘About’ option |  | User is successfully transferred to ‘About’ page - https://saucelabs.com/ |

**TC-026: Go to ‘About’ page as problem\_user - FAILING**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Steps to reproduce** | **Test data** | **Expected result** |
| 1. | Open login page | Login page: https://www.saucedemo.com/v1/index.html | Successfully opened login page |
| 2. | Enter valid username in username field | Username: problem\_user | Successfully entered username in the given field |
| 3. | Enter valid password in password field | Password: secret\_sauce | Successfully entered password in the given field |
| 4. | Click on ‘LOGIN’ button |  | User is successfully logged in and transferred to homepage |
| 5. | Click on the Navigation menu in the upper left corner – at the image of three lines |  | Navigation menu is successfully opened |
| 6. | Click on the ‘About’ option |  | User is successfully transferred to ‘About’ page - https://saucelabs.com/ |

**End-to-end test cases**

**TC-027: Finish ordering item**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Steps to reproduce** | **Test data** | **Expected result** |
| 1. | Open login page | Login page: https://www.saucedemo.com/v1/index.html | Successfully opened login page |
| 2. | Enter valid username in username field | Username: standard\_user | Successfully entered username in the given field |
| 3. | Enter valid password in password field | Password: secret\_sauce | Successfully entered password in the given field |
| 4. | Click on ‘LOGIN’ button |  | User is successfully logged in and transferred to homepage |
| 5. | On homepage, click on ‘ADD TO CART’ button for ‘Sauce Labs Backpack’ item |  | Item is added to the cart and the cart image has number 1 next to it; additionally, item has ‘REMOVE’ button next to it |
| 6. | Click on cart image in the upper right corner |  | Cart is opened, and we see ‘Sauce Labs Backpack’ item with the quantity of 1 |
| 7. | Click on ‘CHECKOUT’ button |  | Successfully transferred to the next step of ordering process |
| 8. | Enter valid first name in the ‘First Name’ field | First name: Sasa | Name successfully entered in the given field |
| 9. | Enter valid last name in the ‘Last Name’ field | Last name: Markovic | Surname successfully entered in the given field |
| 10. | Enter valid zip code in the ‘Zip/Postal Code’ field | Zip code:18000 | Zip code successfully entered in the given field |
| 11. | Click on ‘CONTINUE’ button |  | Successfully transferred to the next step of ordering process |
| 12. | After reviewing the order that everything is as expected, click on ‘FINISH’ button |  | Order is being placed, with receiving message: ‘**THANK YOU FOR YOUR ORDER**  Your order has been dispatched, and will arrive just as fast as the pony can get there!’ |

**TC-028:** Log in, add item to the cart, remove it from the cart, and log out

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Steps to reproduce** | **Test data** | **Expected result** |
| 1. | Open login page | Login page: https://www.saucedemo.com/v1/index.html | Successfully opened login page |
| 2. | Enter valid username in username field | Username: standard\_user | Successfully entered username in the given field |
| 3. | Enter valid password in password field | Password: secret\_sauce | Successfully entered password in the given field |
| 4. | Click on ‘LOGIN’ button |  | User is successfully logged in and transferred to homepage |
| 5. | On homepage, click on ‘ADD TO CART’ button for ‘Sauce Labs Backpack’ item |  | Item is added to the cart and the cart image has number 1 next to it; additionally, item has ‘REMOVE’ button next to it |
| 6. | Click on cart image |  | Page which leads to cart is successfully opened |
| 7. | Click on ‘REMOVE’ button next to the ‘Sauce Labs Backpack’ item |  | Cart has no numbers next to its image; the cart page is empty |
| 8. | Logout by clicking on the ‘Logout’ link in the Navigation menu on the left side |  | Successfully logged out and returned to the https://www.saucedemo.com/v1/index.html |

**BUG REPORTS**

BUG-001: remove item(s) from homepage using problem\_user

**Description**: When using problem\_user credentials, when we add an item to the cart from the homepage, and we try to remove it from the homepage, the button is clickable, but nothing changes. This happens when we have one or more items.

**Environmen**t: <https://www.saucedemo.com/v1/index.html>

**Credentials**:   
 - Username: problem\_user  
 - Password: secret\_sauce

**Steps to reproduce**:

1. Go to login page
2. Log in using given credentials
3. On homepage, choose one item click on ‘ADD TO CART’ button
4. After that for the same item click on ‘REMOVE’ button

**Expected result**: User is able to remove given item from the cart, and then cart would be empty, as well as number of the items should be removed from the cart image

**Actual result**: User is not able to remove item from the cart. The button looks like it is clickable, but nothing happens.

**Priority**: High  
**Severity**: Medium

**Video:**  


BUG-002: Images are broken for items when logged in as a problem\_user

**Description**: When using problem\_user credentials, when getting on homepage, images for items are broken, and user then cannot enter to the item for more details

**Environment**: <https://www.saucedemo.com/v1/index.html>

**Credentials**:   
 - Username: problem\_user  
 - Password: secret\_sauce

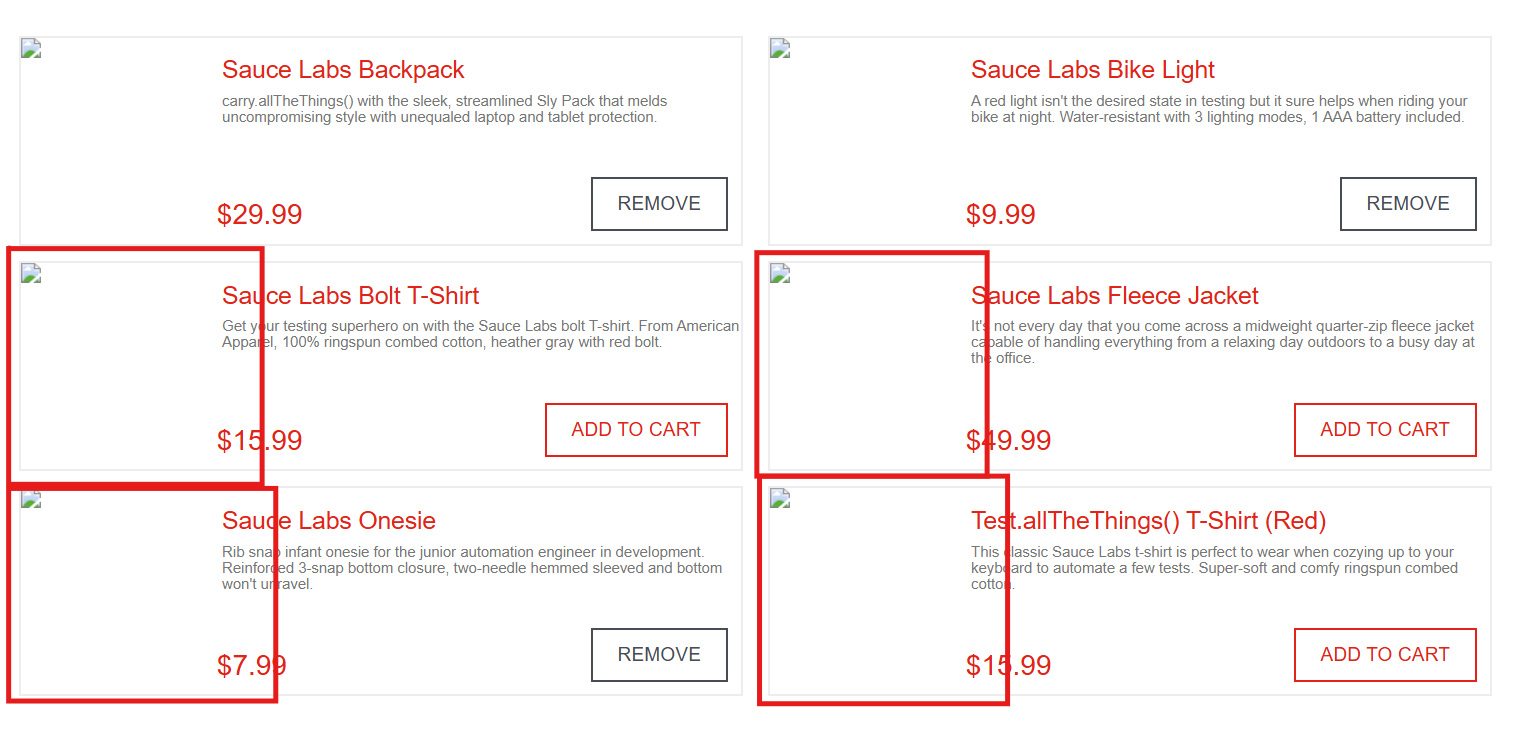
**Steps to reproduce:**

1. Go to login page
2. Log in using given credentials
3. On homepage, click on the image for one of the items

**Expected result**: User is able to see images for all items, and by clicking on one of it, it can enter item itself and see more details

**Actual result**: User is not able to see images of items, nor he can see more details about specific item.

**Priority**: High  
**Severity**: High

**Screenshot:  
**

BUG-003: add multiple items from homepage using problem\_user

**Description**: When using problem\_user credentials, when we want to add multiple items from homepage, some of them will be added, and some of them will not get to the cart (items which cannot be added to the cart are Sauce Labs Bolt T-Shirt, Sauce Labs Fleece Jacket, Test.allTheThings() T-Shirt (Red)).

**Environment**: <https://www.saucedemo.com/v1/index.html>

**Credentials**:   
 - Username: problem\_user  
 - Password: secret\_sauce

**Steps to reproduce**:

1. Go to login page
2. Log in using given credentials
3. On homepage, choose one of these items by click on ‘ADD TO CART’ button: Sauce Labs Bolt T-Shirt, Sauce Labs Fleece Jacket, Test.allTheThings() T-Shirt (Red)

**Expected result**: User is able to add these specific items to the cart.

**Actual result**: User is not able to add mentioned items to the cart.

**Priority**: High  
**Severity**: High

**Video:**

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BUG-004: cannot sort items on homepage when using problem\_user

**Description**: When using problem\_user credentials, when we want to sort items by any given option, item’s position is not changing at all.

**Environment**: <https://www.saucedemo.com/v1/index.html>

**Credentials**:   
 - Username: problem\_user  
 - Password: secret\_sauce

**Steps to reproduce**:

1. Go to login page
2. Log in using given credentials
3. On homepage, in the upper right corner click on dropdown menu for sorting option and choose any option.

**Expected result**: User is able to sort items by any given option.

**Actual result**: User is not able to sort items at all.

**Priority**: High  
**Severity**: High

**Video:**

****

Additional bug reports:  
  
**BUG\_005**: User can place an order without having any item in the cart

**BUG\_006**: Writing in Last name field transfers to First name field when using problem\_user

**BUG-007**: User cannot change item quantity on the cart page

**BUG-008**: ‘About’ page shows 404 for problem\_user

**BUG-009:** Cart is still showing additional number item even when the item is removed from the item’s description

**TEST REPORT**

The objective of this testing process was to evaluate how different users interact with the system, specifically their ability to add items to the cart, remove them, and complete the ordering process. One QA tester conducted testing on the environment available at **https://www.saucedemo.com/v1/index.html** over a span of approximatelly 10 days.

**Results:**

* **Total Test Cases**: 28
* **Failing Test Cases**: 5
* **Passing Test Cases**: 23

This translates to an approximate pass rate of **82%** and a failure rate of **18%**.

The majority of the failing test cases were associated with the problem\_user, while other user flows functioned as expected.

The QA tester logged **9 bug reports**, most of which were tied to issues encountered with the problem\_user. However, 3 bugs were observed across all user types:

1. Completing an order without having any items in the cart.
2. Inability to change the quantity of items in the cart.
3. The cart displaying an incorrect item count even after an item is removed from its details page.

In terms of automation, the first objective—sorting items and adding/removing items from the cart—has been completed, as well as the second objective, which involved writing end-to-end test cases. For the end-to-end test cases, it was demonstrated that certain steps could be encapsulated into separate methods, while still allowing the option to write them step by step directly in the test file. This approach was intentional, although it is understandable if there was an expectation for a different methodology.