

# Graduate Assignment: Automated Testing with Selenium

## DemoBlaze

### 1. Test Cases

#### 1.1. Test Case - 1

Test Case ID	TC_LOGIN_001
Test Description	Verify a user can successfully <b>log into the application using a valid username and password.</b>
Preconditions	The user must have a valid, registered account. (A test account exists: Username: somya, Password: somya).
Test Steps	<ol style="list-style-type: none"><li>1. Navigate to the DemoBlaze homepage (<a href="https://www.demoblaze.com">https://www.demoblaze.com</a>).</li><li>2. Click the 'Log in' link in the navigation bar.</li><li>3. Enter the valid username (somya) into the Username field.</li><li>4. Enter the valid password (somya) into the Password field.</li><li>5. Click the 'Log in' button in the modal.</li></ol>
Expected Result	The login modal should disappear, and the navigation bar should display a "Welcome somya" message in place of the 'Log in' link.
Actual Result	Log in was successful and "Welcome somya" was displayed.

## 1.2. Test Case - 2

Test Case ID	TC_LOGIN_002
Test Description	Verify system handles <b>invalid passwords correctly and denies access.</b>
Preconditions	<ol style="list-style-type: none"><li>1. The user must be logged out (unauthenticated).</li><li>2. A valid, registered username(somya) must be known).</li></ol>
Test Steps	<ol style="list-style-type: none"><li>1. Navigate to the DemoBlaze homepage (<a href="https://www.demoblaze.com">https://www.demoblaze.com</a>).</li><li>2. Click the 'Log in' link in the navigation bar.</li><li>3. Enter the valid username (somya) into the Username field.</li><li>4. Enter the invalid password (randompass) into the Password field.</li><li>5. Click the 'Log in' button in the modal.</li></ol>
Expected Result	Login fails; an error alert ("Wrong password.") is displayed.
Actual Result	Login failed and "Wrong password." was displayed.

## 1.3. Test Case - 3

Test Case ID	TC_LOGIN_003
Test Description	Verify system handles <b>invalid username correctly and denies access.</b>
Preconditions	<ol style="list-style-type: none"><li>3. The user must be logged out (unauthenticated).</li><li>4. A invalid, unregistered username(randomuser99) must be known).</li></ol>
Test Steps	<ol style="list-style-type: none"><li>1. Navigate to the DemoBlaze homepage (<a href="https://www.demoblaze.com">https://www.demoblaze.com</a>).</li><li>2. Click the 'Log in' link in the navigation bar.</li><li>3. Enter the invalid username (randomuser99) into the Username field.</li><li>4. Enter the password (randompass) into the Password field.</li><li>5. Click the 'Log in' button in the modal.</li></ol>
Expected Result	Login fails; an error alert ("User does not exist.") is displayed.
Actual Result	Login failed and "User does not exist." was displayed.

#### 1.4. Test Case - 4

Test Case ID	TC_CART_001
Test Description	Verify that a user can successfully <b>select a product and add it to the shopping cart.</b>
Preconditions	The user is on the homepage.
Test Steps	<ol style="list-style-type: none"><li>1. Navigate to the DemoBlaze homepage.</li><li>2. Click on a product link ("Nexus 6")</li><li>3. Wait for the product detail page to load.</li><li>4. Click the 'Add to cart' button.</li><li>5. Accept the success alert message ("Product added").</li><li>6. Click the 'Cart' link in the navigation bar.</li></ol>
Expected Result	After navigating to the Cart page, the selected product ("Nexus 6") should be listed in the shopping cart table with the correct price.
Actual Result	The correct product("Nexus 6") was displayed in the shopping cart with the correct price.

#### 1.5. Test Case - 5

Test Case ID	TC_PROD_001
Test Description	Verify that the <b>product name, price, and description are correctly displayed</b> on a product's detail page.
Preconditions	The user is on the homepage.
Test Steps	<ol style="list-style-type: none"><li>1. Navigate to the DemoBlaze homepage.</li><li>2. Select a product link ( "<b>Sony xperia z5</b>").</li><li>3. Wait for the product detail page to load.</li><li>4. Locate and capture the <b>Product Name</b> text.</li><li>5. Locate and capture the <b>Product Price</b> text.</li><li>6. Locate and capture the <b>Product Description</b> text.</li></ol>
Expected Result	The displayed Product Name should be " <b>Sony xperia z5</b> ". The Product Price should be displayed as "\$320". The Product Description should be visible and contain relevant details about the phone.
Actual Result	The correct product("Sony xperia z5") was displayed along with the correct price and description.

### 1.6. Test Case - 6

Test Case ID	TC_CHECKOUT_001
Test Description	Verify that a user can successfully open the 'Place Order' form and submit it with all required fields filled.
Preconditions	At least one item is present in the shopping cart. (Requires running <b>Test Case 4's</b> steps first).
Test Steps	<ol style="list-style-type: none"><li>1. Go to a product page and click 'Add to cart'.</li><li>2. Click the 'Cart' link in the navigation bar.</li><li>3. Click the 'Place Order' button.</li><li>4. Fill in all required fields in the 'Place Order' modal (Name, Country, City, Credit card, Month, Year).</li><li>5. Click the 'Purchase' button.</li></ol>
Expected Result	A "Thank you for your purchase!" confirmation modal should appear, containing a purchase ID and amount.
Actual Result	A confirmation modal with "Thank you for your purchase!" appeared along with a purchase ID and amount.

### 1.7. Test Case - 7

Test Case ID	TC_UI_001
Test Description	Verify that key navigation links on the homepage are correctly displayed and clickable.
Preconditions	The user is on the homepage.
Test Steps	<ol style="list-style-type: none"><li>1. Navigate to the DemoBlaze homepage.</li><li>2. Verify the 'Home' link in the navigation bar is displayed.</li><li>3. Verify the 'Contact' link is displayed.</li><li>4. Verify the 'About us' link is displayed.</li><li>5. Verify the 'Cart' link is displayed.</li><li>6. Verify the 'Log in' link is displayed.</li><li>7. Verify the 'Sign up' link is displayed.</li></ol>
Expected Result	All six links (Home, Contact, About us, Cart, Log in, Sign up) should be visible and have the correct text in the navigation bar.

Actual Result	All six links were visible along with the correct text in the navigation bar.
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