**Steps to set up and run the tests**

Test Automation Framework Shopping Application:

Development Tools Used:

Language Used: Java Jdk1.7+

Build Tool: Maven 4.0.0

Browser/UI Automation: Selenium HQ version 3.0.1

Browser Used for Testing: Chrome Version 56.0.2924.87 (64-bit)

Test Framework: Junit 4

IDE: Eclipse Neon.2 4.6.2

1. Maven is used to handle all the dependencies.
2. The pom.xml contains all the dependency details and plugin to be included.
3. For selenium, I had downloaded the it from official website and then included the jar files in the project. If you are using Eclipse, then Right Click the Project -> Properties -> Java Build Path Tab -> Libraries Tab -> Click Add External Jars.
4. Here you can Browse for selenium-java-3.0.1 folder and include all the jar files found in lib directory as well as outside lib directory.
5. Later update the pom.xml to handle the dependency for selenium.
6. Please download [ChromeDriver](https://chromedriver.storage.googleapis.com/index.html?path=2.27/) and extract chromedriver.exe in **C:\\chromedriver\_win32\\chromedriver\_win32\\chromedriver.exe**.
7. This location is important because for UI tests I have set the system property to locate the Chrome Driver in the above-mentioned path

**To Run:**

**In eclipse, click *Run As* and select *Junit Test***

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| --- | --- |
| **Test Cases** | **Expected Result** |
| * **Test case to assert item is added to cart**  1. Go to [http://store.demoqa.com/](http://store.demoqa.com/%20) 2. Go to Product category and select Accessories 3. Click on “Add to Cart” for just Magic Mouse 4. Assert that item is Added to the cart. | An alert message saying, *"Item has been added to your cart!"* and item is confirmed to be added.  Assert the above message to confirm the item is added to the cart. |
| * **Test case to assert only 1 item is added to the cart**  1. Go to [http://store.demoqa.com/](http://store.demoqa.com/%20) 2. Go to Product category and select Accessories 3. Click on “Add to Cart” for just Magic Mouse 4. Click on “Checkout” and confirm you have Magic Mouse in your Check-Out Page | The quantity section is equal to the value of 1.  Assert the quantity to be equal to 1. |
| * **Test case to confirm the order is placed**      1. Go to [http://store.demoqa.com/](http://store.demoqa.com/%20) 2. Go to Product category and select Accessories 3. Click on “Add to Cart” for just Magic Mouse 4. Click on “Checkout” and confirm you have 1 Magic Mouse in your Check-Out Page 5. After confirming, click on Continue 6. Enter test (dummy) data needed for email, billing/contact details and click Purchase 7. Confirm that you have placed the Order in ‘Transaction Results’ page | Assert the messages that confirm the order is placed *“Thank you, your purchase is pending. You will be sent an email once the order clears.*  *Thank you for purchasing with ONLINE STORE, any items to be shipped will be processed as soon as* *possible, any items that can be downloaded can be downloaded using the links on this page. All prices include tax and postage and packaging where applicable. You ordered these items:*  *Total Shipping: $10.00*  *Total: $160.00"* |
| * **Test case to order all items and confirm the order.**  1. Go to [http://store.demoqa.com/](http://store.demoqa.com/%20) 2. Go to Product category and select Accessories 3. Click on “Add to Cart” for all the items 4. Click on “Checkout” and confirm you have all the items in the Checkout Page. 5. After confirming, click on Continue 6. Enter test (dummy) data needed for email, billing/contact details and click Purchase 7. Confirm that you have placed the Order in ‘Transaction Results’ page | Assert all the items are added to the cart and order is placed for all the items in the accessories. |
| * **Test case to update the order quantity and place the order.**  1. Go to [http://store.demoqa.com/](http://store.demoqa.com/%20) 2. Go to Product category and select Accessories 3. Click on “Add to Cart” for all the items 4. Click on “Checkout” and confirm you have all the items in the Checkout Page. 5. Click on the quantity text box and update the value to 2. 6. Click on update button to update the quantity. 7. Assert the updated quantity. 8. Click Continue to confirm the order. 9. Provide address and shipping details 10. Place the order and assert the transaction results page to confirm the order. | Assert the quantity is updated.  Assert the order is placed with the updated quantity.  Assert the confirmation of placing the order. |
| * **Test case to remove the item and cancel the order.**  1. Go to [http://store.demoqa.com/](http://store.demoqa.com/%20) 2. Go to Product category and select Accessories 3. Click on “Add to Cart” for all the items 4. Click on “Checkout” and confirm you have all the items in the Checkout Page. 5. Click on remove item to cancel the order. 6. Assert the message that the cart is empty and there is no item to order. | Assert the message *"Oops, there is nothing in your cart."*  and confirm the order is removed. |
| * **Test case to search the valid product from search box and order the magic mouse.**  1. Go to [http://store.demoqa.com/](http://store.demoqa.com/%20) 2. Go to Product category and select Accessories 3. Click on search box and search “magic mouse” 4. Assert that the item is found. 5. Click on “Add to Cart” for just Magic Mouse 6. Click on “Checkout” and confirm you have 1 Magic Mouse in your Check-Out Page 7. After confirming, click on Continue 8. Enter test (dummy) data needed for email, billing/contact details and click Purchase 9. Confirm that you have placed the Order in ‘Transaction Results’ page | User can search magic mouse and place the order.  Assert the order is placed |
| * **Test Case to search an invalid product from search box.**  1. Go to [http://store.demoqa.com/](http://store.demoqa.com/%20) 2. Go to Product category and select Accessories 3. Click on search box and search “sample” 4. Assert that the item is not found. 5. Assert the message *“Sorry, but nothing matched your search criteria. Please try again with some different keywords.”* | Assert the message *“Sorry, but nothing matched your search criteria. Please try again with some different keywords.”* |
| * **Test case to order the magic mouse from grid view.**  1. Go to [http://store.demoqa.com/](http://store.demoqa.com/%20) 2. Go to Product category and select Accessories 3. Click on grid view. 4. Click on “Add to Cart” for just Magic Mouse 5. Click on “Checkout” and confirm you have 1 Magic Mouse in your Check-Out Page 6. After confirming, click on Continue 7. Enter test (dummy) data needed for email, billing/contact details and click Purchase 8. Confirm that you have placed the Order in ‘Transaction Results’ page | User can place the order from grid view. |
| * **Test case to validate email for placing the order**  1. Go to [http://store.demoqa.com/](http://store.demoqa.com/%20) 2. Go to Product category and select Accessories 3. Click on “Add to Cart” for just Magic Mouse 4. Click on “Checkout” and confirm you have 1 Magic Mouse in your Check-Out Page 5. After confirming, click on Continue 6. Enter invalid email (ex: 1111) and click Purchase 7. Assert the email message *Please enter a valid email.*  * **Test case to provide empty values to fill the order details.**  1. Go to [http://store.demoqa.com/](http://store.demoqa.com/%20) 2. Go to Product category and select Accessories 3. Click on “Add to Cart” for just Magic Mouse 4. Click on “Checkout” and confirm you have 1 Magic Mouse in your Check-Out Page 5. After confirming, click on Continue 6. Enter empty and click Purchase 7. Assert the email message *Please enter a valid email.* 8. Assert the message *Please enter a valid first name* 9. Assert the message *Please enter a valid last name.* 10. Assert the message *Please enter a valid address.* 11. Assert the message *Please enter a valid city.* 12. Assert the message *Please enter a valid phone.* | Order cannot be placed with invalid email id.  User can not place the order with empty values. |
| * **Test case to review the product detail page.**  1. Go to [http://store.demoqa.com/](http://store.demoqa.com/%20) 2. Go to Product category and select Accessories 3. Click on “Add to Cart” for just Magic Mouse 4. Click on “Checkout” and confirm you have 1 Magic Mouse in your Check-Out Page 5. Click on the magic mouse link to review the details. 6. After confirming, click on Continue 7. Enter test (dummy) data needed for email, billing/contact details and click Purchase 8. Confirm that you have placed the Order in ‘Transaction Results’ page | User can click the product details page before placing the order. |

**To Run:**

**In eclipse, click *Run As* and select *Junit Test***

**Sample output:**

Dec 02, 2018 11:05:27 PM shop.shop.AppTest openBrowser

INFO: Started Test

Starting ChromeDriver 2.44.609538 (b655c5a60b0b544917107a59d4153d4bf78e1b90) on port 40691

Only local connections are allowed.

Dec 02, 2018 11:05:29 PM org.openqa.selenium.remote.ProtocolHandshake createSession

INFO: Attempting bi-dialect session, assuming Postel's Law holds true on the remote end

Dec 02, 2018 11:05:31 PM org.openqa.selenium.remote.ProtocolHandshake createSession

INFO: Detected dialect: OSS

Dec 02, 2018 11:05:39 PM shop.shop.AppTest searchValidProduct

INFO: Magic mouse found

Dec 02, 2018 11:05:44 PM shop.shop.AppTest searchValidProduct

INFO: Confirmed there is only 1 magic mouse on checkout page.

Dec 02, 2018 11:06:00 PM shop.shop.AppTest searchValidProduct

INFO: Successfully placed Order for Magic mouse

Dec 02, 2018 11:06:02 PM shop.shop.AppTest openBrowser

INFO: Started Test

Starting ChromeDriver 2.44.609538 (b655c5a60b0b544917107a59d4153d4bf78e1b90) on port 29876

Only local connections are allowed.

Dec 02, 2018 11:06:02 PM org.openqa.selenium.remote.ProtocolHandshake createSession

INFO: Attempting bi-dialect session, assuming Postel's Law holds true on the remote end

Dec 02, 2018 11:06:04 PM org.openqa.selenium.remote.ProtocolHandshake createSession

INFO: Detected dialect: OSS

Dec 02, 2018 11:06:22 PM shop.shop.AppTest orderMagicMouseAfterViewingTheDetails

INFO: Confirmed there is only 1 magic mouse on checkout page.

Dec 02, 2018 11:06:54 PM shop.shop.AppTest orderMagicMouseAfterViewingTheDetails

INFO: Successfully placed Order for Magic mouse

Dec 02, 2018 11:06:55 PM shop.shop.AppTest openBrowser

INFO: Started Test

Starting ChromeDriver 2.44.609538 (b655c5a60b0b544917107a59d4153d4bf78e1b90) on port 3499

Only local connections are allowed.

Dec 02, 2018 11:06:56 PM org.openqa.selenium.remote.ProtocolHandshake createSession

INFO: Attempting bi-dialect session, assuming Postel's Law holds true on the remote end

Dec 02, 2018 11:06:58 PM org.openqa.selenium.remote.ProtocolHandshake createSession

INFO: Detected dialect: OSS

Dec 02, 2018 11:07:16 PM shop.shop.AppTest updateOrder

INFO: Initial quantity is 1.

Dec 02, 2018 11:07:20 PM shop.shop.AppTest updateOrder

INFO: Updated the quantity

Dec 02, 2018 11:07:43 PM shop.shop.AppTest updateOrder

INFO: Successfully placed the order after updating the order

Dec 02, 2018 11:07:44 PM shop.shop.AppTest openBrowser

INFO: Started Test

Starting ChromeDriver 2.44.609538 (b655c5a60b0b544917107a59d4153d4bf78e1b90) on port 25261

Only local connections are allowed.

Dec 02, 2018 11:07:44 PM org.openqa.selenium.remote.ProtocolHandshake createSession

INFO: Attempting bi-dialect session, assuming Postel's Law holds true on the remote end

Dec 02, 2018 11:07:46 PM org.openqa.selenium.remote.ProtocolHandshake createSession

INFO: Detected dialect: OSS

Dec 02, 2018 11:07:58 PM shop.shop.AppTest checkoutAndPurchase

INFO: Item has been added to the cart

Dec 02, 2018 11:08:01 PM shop.shop.AppTest checkoutAndPurchase

INFO: Confirmed there is only 1 magic mouse on checkout page.

Dec 02, 2018 11:08:15 PM shop.shop.AppTest orderMagicMouse

INFO: Successfully placed Order for Magic mouse

Dec 02, 2018 11:08:16 PM shop.shop.AppTest openBrowser

INFO: Started Test

Starting ChromeDriver 2.44.609538 (b655c5a60b0b544917107a59d4153d4bf78e1b90) on port 2287

Only local connections are allowed.

Dec 02, 2018 11:08:17 PM org.openqa.selenium.remote.ProtocolHandshake createSession

INFO: Attempting bi-dialect session, assuming Postel's Law holds true on the remote end

Dec 02, 2018 11:08:18 PM org.openqa.selenium.remote.ProtocolHandshake createSession

INFO: Detected dialect: OSS

Dec 02, 2018 11:08:33 PM shop.shop.AppTest removeOrder

INFO: Initial quantity is 1.

Dec 02, 2018 11:08:35 PM shop.shop.AppTest removeOrder

INFO: Cart empty. Nothing to purchase.

Dec 02, 2018 11:08:36 PM shop.shop.AppTest openBrowser

INFO: Started Test

Starting ChromeDriver 2.44.609538 (b655c5a60b0b544917107a59d4153d4bf78e1b90) on port 28231

Only local connections are allowed.

Dec 02, 2018 11:08:37 PM org.openqa.selenium.remote.ProtocolHandshake createSession

INFO: Attempting bi-dialect session, assuming Postel's Law holds true on the remote end

Dec 02, 2018 11:08:39 PM org.openqa.selenium.remote.ProtocolHandshake createSession

INFO: Detected dialect: OSS

Dec 02, 2018 11:08:46 PM shop.shop.AppTest searchInvalidProduct

INFO: Product not found

Dec 02, 2018 11:08:47 PM shop.shop.AppTest openBrowser

INFO: Started Test

Starting ChromeDriver 2.44.609538 (b655c5a60b0b544917107a59d4153d4bf78e1b90) on port 32003

Only local connections are allowed.

Dec 02, 2018 11:08:48 PM org.openqa.selenium.remote.ProtocolHandshake createSession

INFO: Attempting bi-dialect session, assuming Postel's Law holds true on the remote end

Dec 02, 2018 11:08:49 PM org.openqa.selenium.remote.ProtocolHandshake createSession

INFO: Detected dialect: OSS

Dec 02, 2018 11:09:05 PM shop.shop.AppTest orderMagicMouseGridView

INFO: Confirmed there is only 1 magic mouse on checkout page.

Dec 02, 2018 11:09:19 PM shop.shop.AppTest orderMagicMouseGridView

INFO: Successfully placed Order for Magic mouse

Dec 02, 2018 11:09:20 PM shop.shop.AppTest openBrowser

INFO: Started Test

Starting ChromeDriver 2.44.609538 (b655c5a60b0b544917107a59d4153d4bf78e1b90) on port 46614

Only local connections are allowed.

Dec 02, 2018 11:09:20 PM org.openqa.selenium.remote.ProtocolHandshake createSession

INFO: Attempting bi-dialect session, assuming Postel's Law holds true on the remote end

Dec 02, 2018 11:09:22 PM org.openqa.selenium.remote.ProtocolHandshake createSession

INFO: Detected dialect: OSS

Dec 02, 2018 11:10:02 PM shop.shop.AppTest orderAll

INFO: Successfully placed Order for All accessories

Dec 02, 2018 11:10:03 PM shop.shop.AppTest openBrowser

INFO: Started Test

Starting ChromeDriver 2.44.609538 (b655c5a60b0b544917107a59d4153d4bf78e1b90) on port 24866

Only local connections are allowed.

Dec 02, 2018 11:10:04 PM org.openqa.selenium.remote.ProtocolHandshake createSession

INFO: Attempting bi-dialect session, assuming Postel's Law holds true on the remote end

Dec 02, 2018 11:10:06 PM org.openqa.selenium.remote.ProtocolHandshake createSession

INFO: Detected dialect: OSS

Dec 02, 2018 11:10:17 PM shop.shop.AppTest checkoutAndPurchase

INFO: Item has been added to the cart

Dec 02, 2018 11:10:20 PM shop.shop.AppTest checkoutAndPurchase

INFO: Confirmed there is only 1 magic mouse on checkout page.

Dec 02, 2018 11:10:27 PM shop.shop.AppTest addressEmpty

INFO: Please enter a valid email

Dec 02, 2018 11:10:27 PM shop.shop.AppTest addressEmpty

INFO: Please enter a valid first name

Dec 02, 2018 11:10:27 PM shop.shop.AppTest addressEmpty

INFO: Please enter a valid last name

Dec 02, 2018 11:10:27 PM shop.shop.AppTest addressEmpty

INFO: Please enter a valid address

Dec 02, 2018 11:10:27 PM shop.shop.AppTest addressEmpty

INFO: Please enter a valid city

Dec 02, 2018 11:10:27 PM shop.shop.AppTest addressEmpty

INFO: Please enter a valid phone

Dec 02, 2018 11:10:28 PM shop.shop.AppTest openBrowser

INFO: Started Test

Starting ChromeDriver 2.44.609538 (b655c5a60b0b544917107a59d4153d4bf78e1b90) on port 7807

Only local connections are allowed.

Dec 02, 2018 11:10:29 PM org.openqa.selenium.remote.ProtocolHandshake createSession

INFO: Attempting bi-dialect session, assuming Postel's Law holds true on the remote end

Dec 02, 2018 11:10:31 PM org.openqa.selenium.remote.ProtocolHandshake createSession

INFO: Detected dialect: OSS

Dec 02, 2018 11:11:04 PM shop.shop.AppTest orderMagicMouseReviewDetails

INFO: Confirmed there is only 1 magic mouse on checkout page.

Dec 02, 2018 11:11:59 PM shop.shop.AppTest orderMagicMouseReviewDetails

INFO: Successfully placed Order for Magic mouse