Group B
Ense 375 - Project Step 4
April 5, 2021

Selenium Test
http://automationpractice.com/index.php
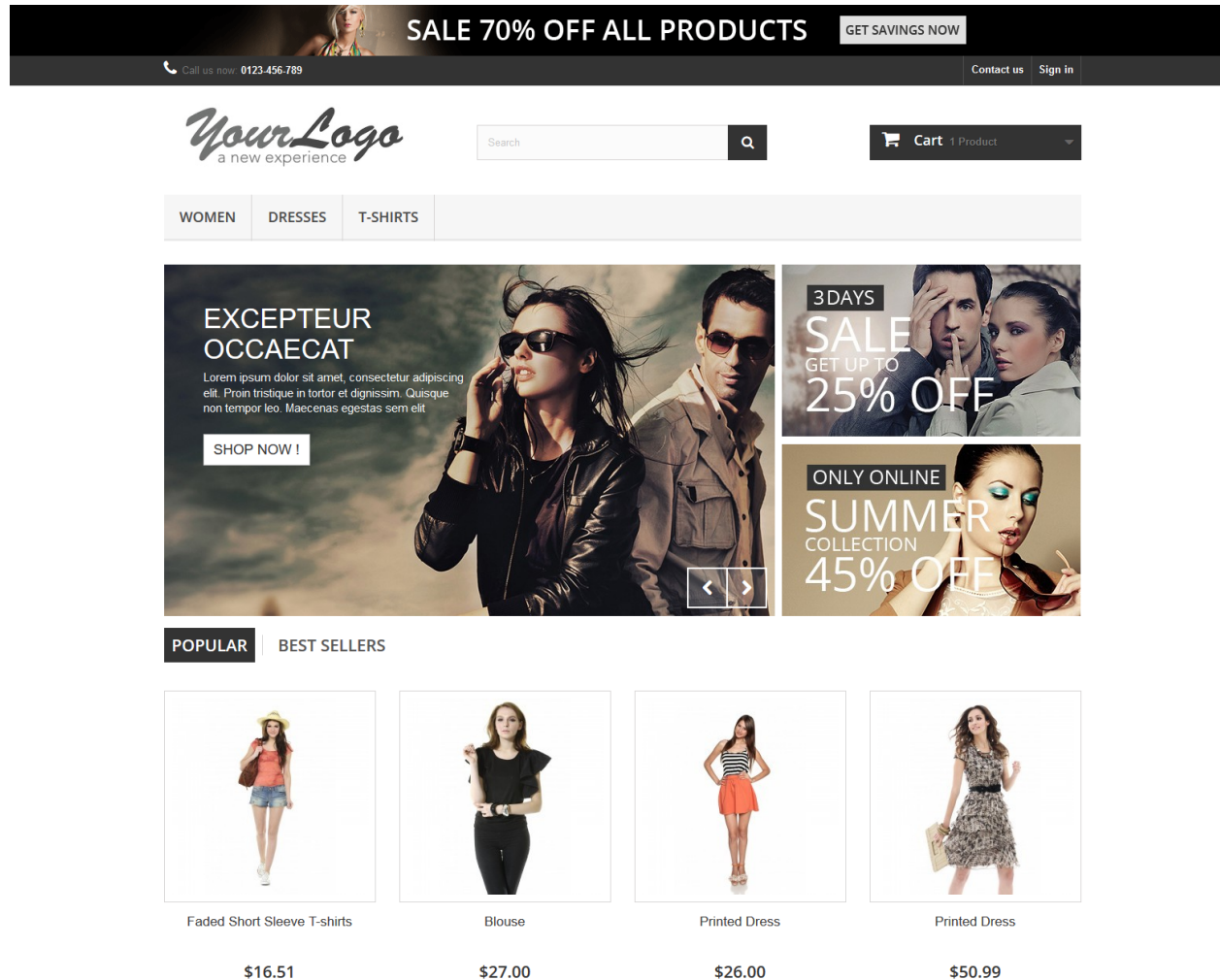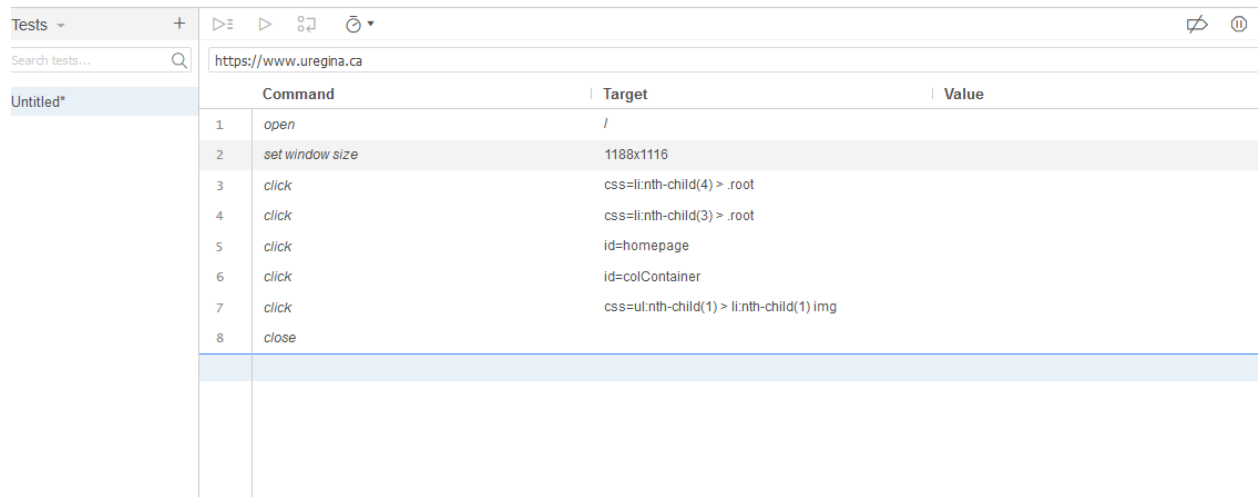

The above website is a practice website in which we can use automation to test it. It is an example of an online clothing shop. We designed my tests using Junit and Selenium to follow a user's most common 'happy path' through the website. We felt this was the most important thing to test, as this is what most users would encounter if they visited the website. We used a firefox browser and driver as that is what was available to use at the time of the creation of the tests. Firefox also is a common browser and is somewhat representative of what a user may be using.

The jenkins plugin for selenium is outdated and did not work on our installations of Jenkins. We used Jenkins and a maven style project to run our selenium tests on the jenkins server.

To generate the basis of a test, we used the Selenium plugin IDE.

	Command	Target	Value
1	open	/	
2	set window size	1188x1116	
3	click	css=li:nth-child(4) > .root	
4	click	css=li:nth-child(3) > .root	
5	click	id=homepage	
6	click	id=colContainer	
7	click	css=ul:nth-child(1) > li:nth-child(1) img	
8	close		

Tests — Search tests... Untitled*

https://www.uregina.ca

This helped to highlight the syntax used to make tests. It generated selenium code, but often didn't accomplish the desired tasks without alteration. This means that we used it as a sort of template, and fine tuned it as we progressed.

Test#1 -- websiteTitle()

This test simply opens the website using selenium and firefox. We included this test to ensure that the proper website was being opened, and that selenium was properly configured. If the test fails we know we are not on the proper website.

Test#2 -- signUp()

This test will click the sign in button and then follow the steps to sign up

It will automatically fill the create an account field with unique characters. Then click the create an account button.

We are then brought to a signup form. We use selenium to fill this information in.

This is what failed the first time running the test. As you can see the form requires correct inputs to complete. Once we fix those we complete our sign up and are brought to our account page.
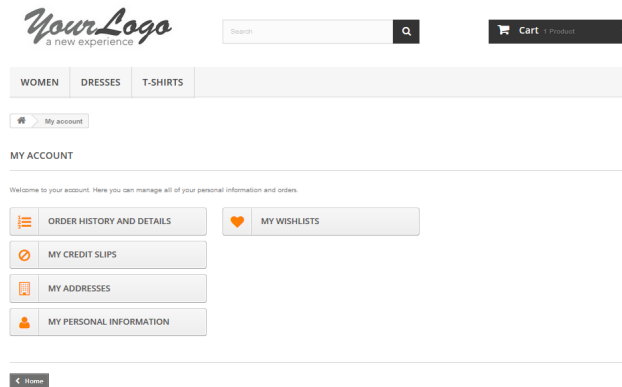
If we make it to this page we know the test is complete.

Test#3--logIn()

Now that we have our account made we go back to the sign in page.

We fill in our information, and press enter.

There is 1 error
1. Authentication failed.

CREATE AN ACCOUNT

Please enter your email address to create an account.

Email address

Create an account

ALREADY REGISTERED?

Email address
tapopi3251@0pppp.com

Password
••••••

Forgot your password?

Sign in

If we do not enter the correct information the test will fail.
We pass when we once again are logged in and are at our account page

YourLogo
a new experience

Search

Cart (empty)

WOMEN   DRESSES   T-SHIRTS

🏠 › My account

MY ACCOUNT

Welcome to your account. Here you can manage all of your personal information and orders.

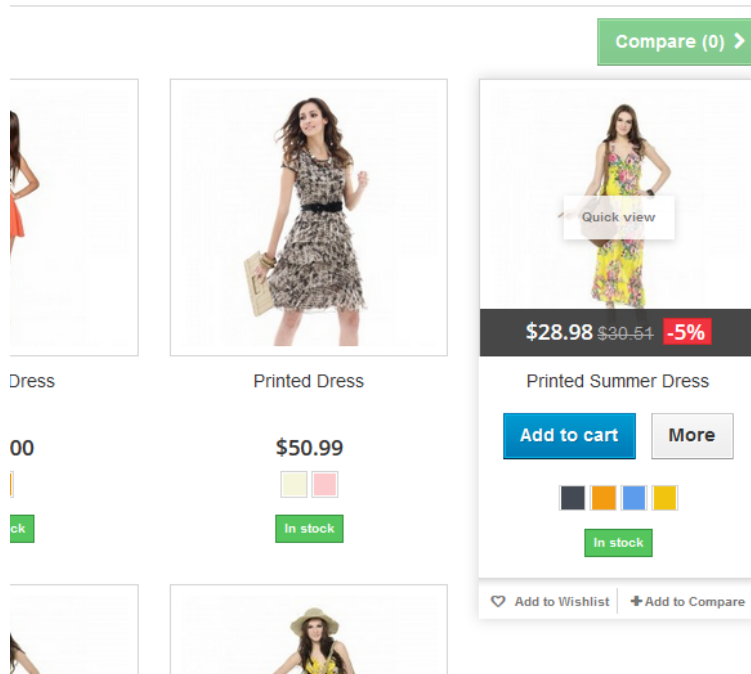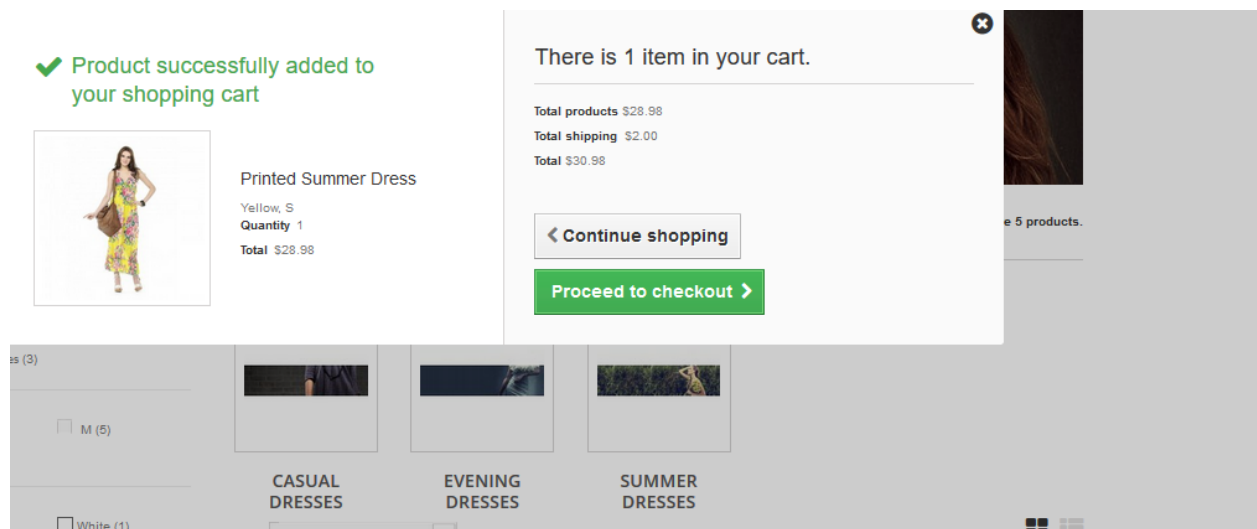| ORDER HISTORY AND DETAILS | | MY WISHLISTS |
MY CREDIT SLIPS		
MY ADDRESSES		
MY PERSONAL INFORMATION		

‹ Home

Test#4--addDressToCheckout()

Having an account means we can begin to shop. The first thing we must do is add an item to the cart. From the home page:

We navigate dresses.

This page is a little longer so we must use selenium to scroll to be able to click.

To add an item we first must hover over our desired item.

Then we click add to cart.

One we see this we know that we have successfully added the item to the cart.
You must inform selenium of the hover, as the element changes when hovered over, and thus we cannot click on the unhovered version. Not hovering will cause this test to fail.

Test #5 -- buyItem()

The final step of the happy path is to purchase the item. To purchase an item we first must ensure we have an item in the cart, and then we proceed to checkout.

If we click on the back minus icon with 1 item, the shopping cart is emptied and the test will pass. Otherwise we continue and click proceed to checkout.

Here we must make sure the checkbox using the same delivery address as the billing address is clicked, otherwise we can't continue without adding an additional address.
We proceed.

We must click the checkbox and agree to the TOS.
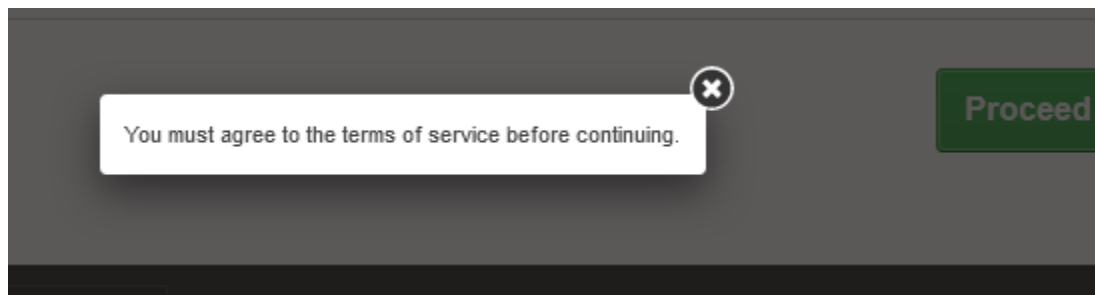
If we do not, the test will fail.
Finally, the payment is

PLEASE CHOOSE YOUR PAYMENT METHOD

| | 01. Summary | 02. Sign in | 03. Address | 04. Shipping | 05. Payment |

Product	Description	Avail.	Unit price	Qty	Total
	Printed Summer Dress SKU : demo_5 Color : Yellow, Size : S	In stock	$28.98 -5% $30.51	1	$28.98
			Total products		$28.98
			Total shipping		$2.00
			TOTAL		**$30.98**

Pay by bank wire (order processing will be longer) ❯

Pay by check (order processing will be longer) ❯

❮ Continue shopping

Where either option will pay for the item. Click either pay by bank wire or pay by check will complete the transaction.

ORDER CONFIRMATION

| 01. Summary | 02. Sign in | 03. Address | 04. Shipping | 05. Payment |

Your order on My Store is complete.

Please send us a bank wire with
- Amount **$30.98**
- Name of account owner **Pradeep Macharla**
- Include these details **xyz**
- Bank name **RTP**
- Do not forget to insert your order reference **JJQGCQKWI** in the subject of your bank wire.
An email has been sent with this information.
Your order will be sent as soon as we receive payment.
If you have questions, comments or concerns, please contact our expert customer support team. .

❮ Back to orders

If we make it to this page, we know the test is complete and passed.

Results

```
[INFO] -------------------------------------------------------
[INFO] Running seleniumTest
1617638058770   geckodriver     INFO    Listening on 127.0.0.1:37226
1617638059429   mozrunner::runner       INFO    Running command: "C:\\Program Files\\Mozilla Firefox\\firef
" "--marionette" "-foreground" "-no-remote" "-profile" "C:\\Users\\TRISTA~1\\AppData\\Local\\Temp\\rust_moz
esCQrOM"
console.warn: SearchSettings: "get: No settings file exists, new profile?" (new Error("", "(unknown module)
1617638061898   Marionette      INFO    Listening on port 64037
1617638062101   Marionette      WARN    TLS certificate errors will be ignored for this session
Apr. 05, 2021 10:54:22 A.M. org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
1617638118030   Marionette      INFO    Stopped listening on port 64037

###!!! [Child][RunMessage] Error: Channel closing: too late to send/recv, messages will be lost

[INFO] Tests run: 5, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 60.939 s - in seleniumTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 5, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] -------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] -------------------------------------------------------------------
[INFO] Total time:  01:07 min
[INFO] Finished at: 2021-04-05T10:55:19-05:00
[INFO] -------------------------------------------------------------------
```

The results of our testing of the happy path confirms that in the happy path, the functionality is as expected. We found that the tests will fail if you try and sign up with incorrect information. The signup will also fail if we use the same email as another user. The tests of adding a cart and checkout will fail if we don't specify hoverpoints and checkboxes to click. Website testing is a beast of a process and requires multitudes of tests to confirm accuracy. This is because websites have many ways for the user to interact with.