TEAM ENERGY

System Test Manual

Senior Project

Phở Ru Website by team Energy

Product Owner
Lynn Nguyen

Team Energy
Duc Nguyen
Massoud Bakhtyari
Misba Tabassum
Naba Riaz
Nam Tran
Zoha Alvi

Verification of System Test Results: 05/11/2022

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1. Selenium Test Environment

1.1. Overview

- The following tests are automated tests that test the major features of the Pho Ru website.
- All 5 test cases were created using Python's Selenium library.

1.2. Setting up the testing environment

1. You need to install Python 3 in your system:

Go to the website `https://www.python.org/downloads/` to download and install Python 3.

2. Make sure pip is installed:

- `pip` comes with Python
- To check if we have pip, open a terminal and execute pip command
  - In windows: `$ pip`
  - In Linux or Mac: `$ pip3`

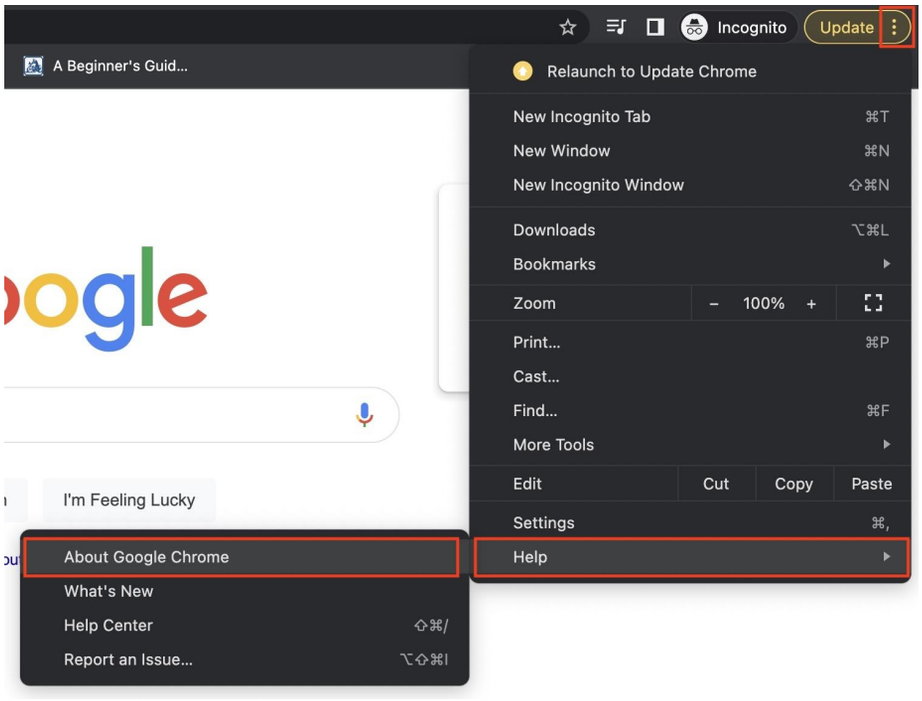
We should see these outputs on the terminal screen:

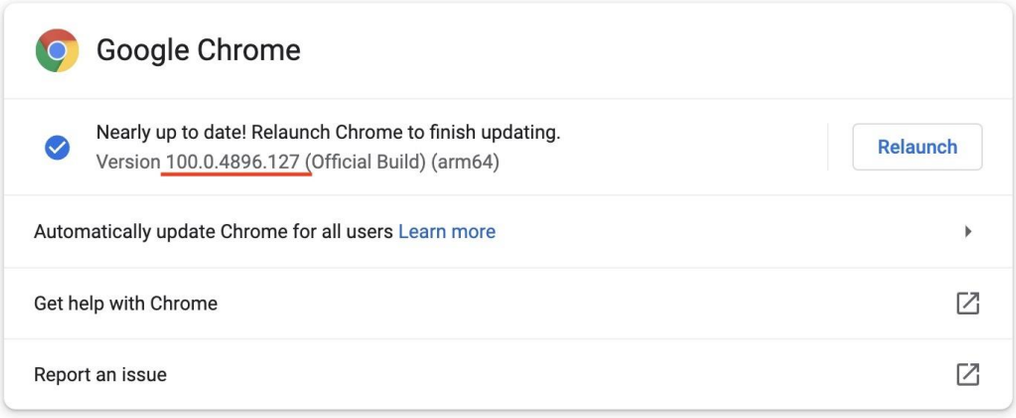
```
Usage:
  pip3 <command> [options]

Commands:
  install                     Install packages.
  download                    Download packages.
  uninstall                   Uninstall packages.
…
…
```

3. Download and install ChromeDriver (WebDriver for Chrome)

- Check which version of Chrome Browser that you have:
  Go to Hamburger menu → help → About Chrome
  Example: Version 100.0.4896.127 (Official Build) (arm64)





- Download the correct chrome driver:
  Go to https://chromedriver.chromium.org/downloads
  For Chrome version 100, download ChromeDriver 100.0.4896.60

Current Releases

- If you are using Chrome version 102, please download ChromeDriver 102.0.5005.27
- If you are using Chrome version 101, please download ChromeDriver 101.0.4951.41
- If you are using Chrome version 100, please download ChromeDriver 100.0.4896.60
- For older version of Chrome, please see below for the version of ChromeDriver that supports it.

- Download the correct installation for our operating system. For example, we downloaded mac64_m1 for MacOS with an M1 chip.

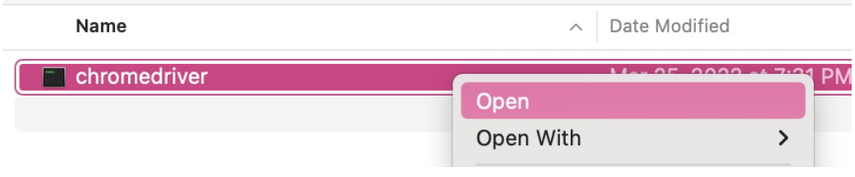
Index of /100.0.4896.60/

Name	Last modified	Size	ETag
Parent Directory		-	
chromedriver_linux64.zip	2022-03-30 07:06:34	6.66MB	3eb3cf16bf08657ba9cbe7f8d03f2b57
chromedriver_mac64.zip	2022-03-30 07:06:37	8.01MB	298f880112c4930a8247d8507ad9357d
chromedriver_mac64_m1.zip	2022-03-30 07:06:39	7.31MB	fb7238bc8e5e44c693baf3692e62e66c
chromedriver_win32.zip	2022-03-30 07:06:41	6.10MB	930ff33ae8babeaa74e0dd1ce1dae7ff
notes.txt	2022-03-30 07:06:47	0.00MB	4d4858bc211e7fa738ba71a39f34fb11

- Unzip and move the chromedriver.exe to a directory in your system. Remember the path so we can reference this file in the test file's code.

  Example: `/Users/JohnnyDoe/Programs/chromedriver`

- Notes: If you face the Error: "chromedriver" cannot be opened because the developer cannot be verified. Unable to launch the chrome browser, you need to go to the chromedriver directory and right-click chromeDriver file and open it. After this step, re-run your tests, chrome driver will work.



Be aware of these variables in our test files, and adjust them according to your system, or your preferences:

★ **PATH** is the path to the chromedriver.exe we downloaded earlier.

★ **WEBPAGE** is the URL to our deployed application.

★ **WAITTIME** is the number of seconds the script will wait for an element to be loaded to the browser's DOM. Increase this value if you don't have a good internet connection.

★ **SHOWTIME** is the number of seconds the script will wait before executing the next code statement(s). Increase this value if you want to see how the automating test navigates through the web page in the browser. Decrease this value if you don't need to see what is happening on the browser, and just want to see the test results asap.

1.3. Functionality of Our Test Cases

- When a test case is being run, a Chrome Browser will be opened up automatically, and the Python script will execute the testing procedures. You can see exactly what is happening on the website as the script runs through the test code.

- The result of the test cases, ‘passed’ or ‘error’, will be shown on the terminal screen.

1.4. How to run the test cases

In order to run a test file:

1. Open a terminal
2. Go to the directory that has the test file

```
$ cd /path/to/test_files
$ ls
testfile01.py  testfile02.py  testfile03.py
testfile04.py  testfile05.py
```

3. Run this command to execute the script:

```
$ python3 <test_file_name>
```

Example:

```
$ python3 testfile01.py
```

The next sections are our reports on the 5 test cases and the expected outputs.

2. Navigate between pages

2.1. Description

- The “Navigate between pages” test will automatically try to go through all available pages on the website to see if there is any error while trying to access them.
- File Path: *automation-testing/testfile01.py*
- Test input: You will need to run the program as follows:
  `> python3 testfile01.py`

2.2. Open website

Test to see if the website is accessible. All tests will not start unless the website is accessible.

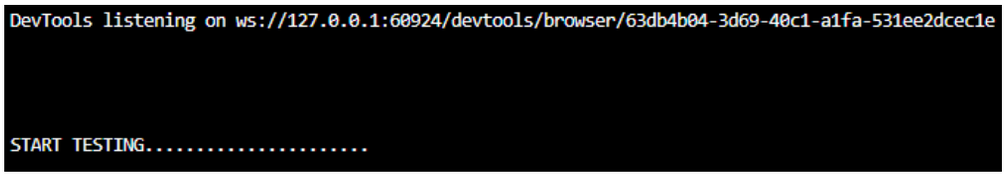
- Name: Naba Riaz
- Name: Nam Tran
- Date: 05/11/2022

Expected output: “START TESTING…….”

☑ Verified

☐ Not-verified

Below is a screenshot of the verification of passing the test.



2.3. Website title

Test to see if the website title is being correctly displayed. All tests will check if the title is displayed correctly.

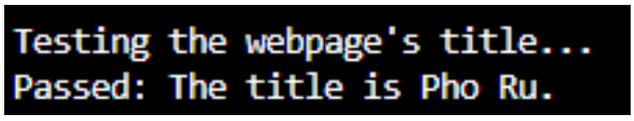
- Name: Naba Riaz
- Name: Nam Tran
- Date: 05/11/2022

Expected output: “Passed: The title is Pho Ru.”

☑ Verified

☐ Not-verified

Below is a screenshot of the verification of passing the test.



2.4. Check “About” page button

Test to see if the “About” page button in the navigation bar navigates to the about page and displays the paragraph and pictures.

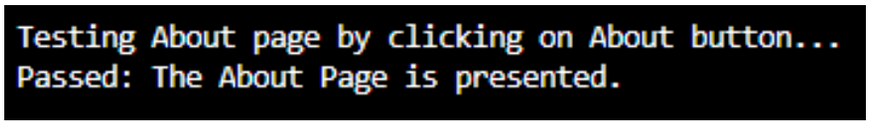
- Name: Naba Riaz
- Name: Nam Tran
- Date: 05/11/2022

Expected output: “Passed: The About Page is presented.”

☑ Verified

☐ Not-verified

Below is a screenshot of the verification of passing the test.



2.5. Check “Pho Ru” logo button

Test to see if the logo is visible and clickable.

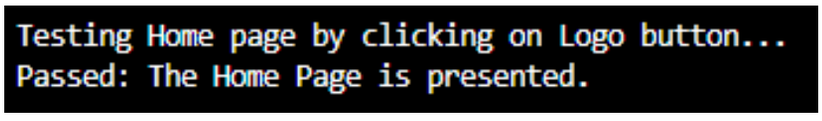
- Name: Naba Riaz
- Name: Nam Tran
- Date: 05/11/2022

Expected output: “Passed: The Home Page is presented.”

☑ Verified

☐ Not-verified

Below is a screenshot of the verification of passing the test.



2.6. Check “Contact” page button

Test to see if the “Contact” page button in the navigation bar navigates to the contact page and displays restaurant timings, contact info, and google maps location.

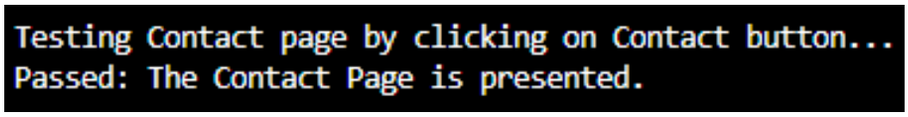
- Name: Naba Riaz
- Name: Nam Tran
- Date: 05/11/2022

Expected output: “Passed: The Contact Page is presented.”

☑ Verified

☐ Not-verified

Below is a screenshot of the verification of passing the test.



2.7. Check “Homepage” button

Test to see if the homepage is presented when the “Pho Ru” text in the navigation bar is clicked.

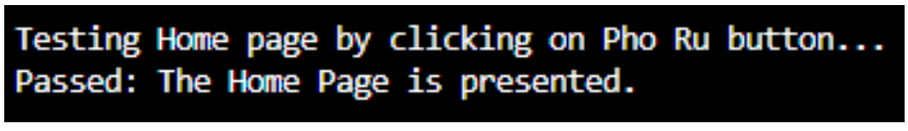
- Name: Naba Riaz
- Name: Nam Tran
- Date: 05/11/2022

Expected output: “Passed: The Home Page is presented.”

☑ Verified

☐ Not-verified

Below is a screenshot of the verification of passing the test.



2.8. Check “Menu” page button

Test to see if the Menu button in the navigation bar will lead to the Menu page.

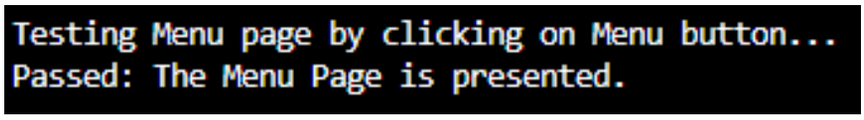
- Name: Naba Riaz
- Name: Nam Tran
- Date: 05/11/2022

Expected output: “Passed: The Menu Page is presented.”

☑ Verified

☐ Not-verified

Below is a screenshot of the verification of passing the test.



2.9. Check “Cart” button

Test to see if the Cart icon in the navigation bar will lead to the Cart page.

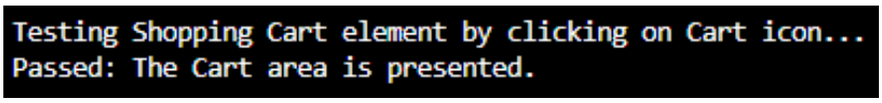
- Name: Naba Riaz
- Name: Nam Tran
- Date: 05/11/2022

Expected output: “Passed: The Cart area is presented.”

☑ Verified

☐ Not-verified

Below is a screenshot of the verification of passing the test.



2.10. Check “Sign in” button

Test to see if the Sign In button in the navigation bar will lead to the Sign In page.

- Name: Naba Riaz
- Name: Nam Tran
- Date: 05/11/2022

Expected output: “Passed: The Sign In Page is presented.”

☑ Verified

☐ Not-verified

Below is a screenshot of the verification of passing the test.

```
Testing Sign In page by clicking on Sign In button...
Passed: The Sign In Page is presented.
```

2.11. Check “Register” button

Test to see if the Register button in the navigation bar will lead to the Sign up page.

- Name: Naba Riaz
- Name: Nam Tran
- Date: 05/11/2022

Expected output: “Passed: The Sign Up page is presented.”

☑ Verified

☐ Not-verified

Below is a screenshot of the verification of passing the test.

```
Testing Sign Up page by clicking on Register button...
Passed: The Sign Up Page is presented.
ok

----------------------------------------------------------------------
Ran 1 test in 23.272s

OK
```

3. Register a new account

3.1. Description

- The “Register a new account” test will automatically check if signup page is accessible and then create an user to see if the signup functionality works
- File Path: *automation-testing/testfile02.py*
- Test input: You will need to run the program as follows:
  `> python3 testfile02.py`

3.2. Test user

The following is the information for the test user used to test the registration process.

■ Name: Naba Riaz
■ Name: Nam Tran
■ Date: 05/11/2022

```
firstname = 'Johnny'
lastname = 'Doe'
firstcar = 'Pontiac'
townname = 'Lalaland'
email = 'johnnydoe@email.com'
password = 'johnnyHASapass.123'
```

3.3. Check Sign up page

Test to see if the Register button in the navigation bar will lead to the Sign up page.

■ Name: Naba Riaz
■ Name: Nam Tran
■ Date: 05/11/2022

Expected output: “Passed: The Sign Up Page is presented.”
☑ Verified
☐ Not-verified

Below is a screenshot of the verification of passing the test.

```
Go to Sign Up page by clicking on Register button...
Passed: The Sign Up Page is presented.
```

3.4. Automatically fill in information

Test to see if the test user registration information is automatically filled in at the Sign Up page.

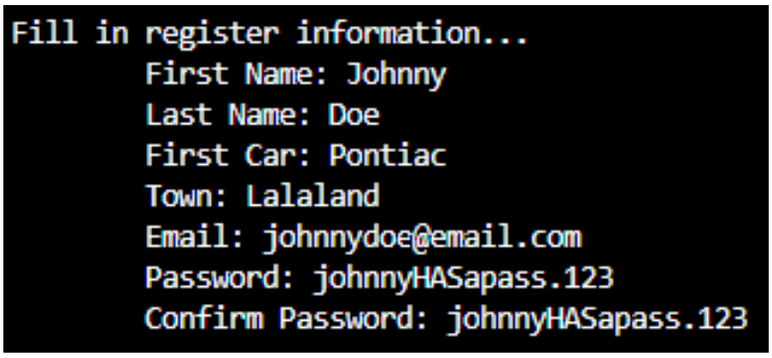
- Name: Naba Riaz
- Name: Nam Tran
- Date: 05/11/2022

Expected output: All fields are populated with relevant information.

☑ Verified

☐ Not-verified

Below is a screenshot of the verification of passing the test.



3.5. Result

Test to see if the test user is created when the Sign Up button is clicked.

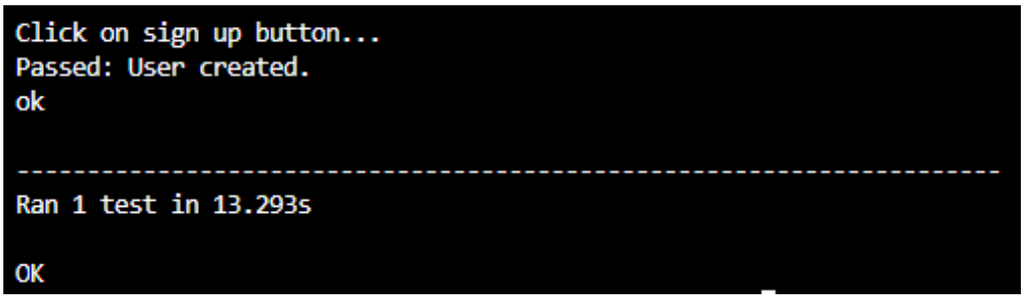
- Name: Naba Riaz
- Name: Nam Tran

Expected output: “Passed: User created..”

☑ Verified

☐ Not-verified

Below is a screenshot of the verification of passing the test.



4. Login using an account

4.1. Description

- The “Login using an account” test will automatically check if the sign in page and its components are accessible, then sign in with an existing test user and test the profile page.
- File Path: *automation-testing/testfile03.py*
- Test input: You will need to run the program as follows:
  `> python testfile03.py`

4.2. Test user

The following test user was created in the backend from the “register a new account” test and will be used to test the login prompt.

■ Name: Naba Riaz
■ Name: Nam Tran
■ Date: 05/11/2022

```
email = 'johnnydoe@email.com'
password = 'johnnyHASapass.123'
```

4.3. Check Sign in page

Test to see if the Sign In button in the navigation bar will lead to the Sign In page when clicked.

■ Name: Naba Riaz
■ Name: Nam Tran
■ Date: 05/11/2022

Expected output: “Passed: The Sign In Page is presented.”

☑ Verified
☐ Not-verified

Below is a screenshot of the verification of passing the test.

```
Go to Sign In page by clicking on Sign In button...
Passed: The Sign In Page is presented.
```

4.4. Automatically fill in information

Test to see if the newly created test user's email and password information is automatically filled in at the Sign In page.

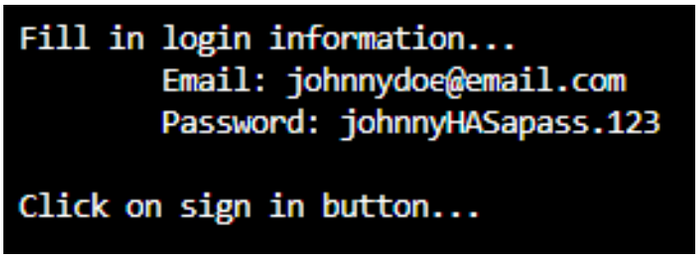
- Name: Naba Riaz
- Name: Nam Tran
- Date: 05/11/2022

Expected output: All fields are populated with relevant information and "click on sign in button" is displayed.

☑ Verified

☐ Not-verified

Below is a screenshot of the verification of passing the test.



4.5. Check components

Test to see if after clicking the sign in button, the profile and sign out buttons replace the sign in and register buttons

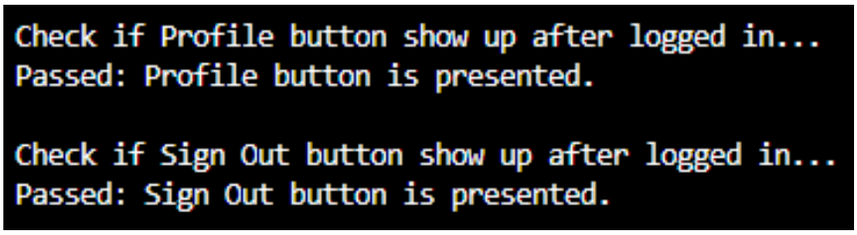
- Name: Naba Riaz
- Name: Nam Tran
- Date: 05/11/2022

Expected output: "Passed: Profile button is presented." AND "Passed: Sign Out button is presented."

☑ Verified

☐ Not-verified

Below is a screenshot of the verification of passing the test.



4.6. Check Profile page

Test to see if the profile page is presented after hitting the “Profile” button in the navigation bar and it displays the profile of the logged in test user.

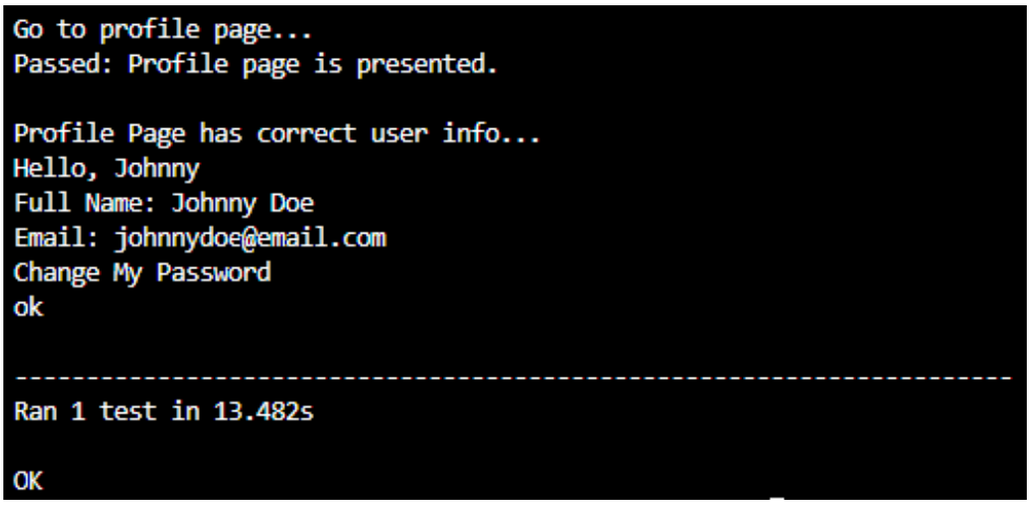
- Name: Naba Riaz
- Name: Nam Tran
- Date: 05/11/2022

Expected output: “Passed: Profile page is presented.” AND shows information of the test user along with the “Change My Password” button to let the user change their password along with an “ok” message indicating tests have passed.

☑ Verified

☐ Not-verified

Below is a screenshot of the verification of passing the test.



5. Reset password for an account

5.1. Description

- The “Reset password for an account” test will automatically check if the reset password functionality works. The test will use the same test user created in “Register a new account” test.
- File Path: *automation-testing/testfile04.py*
- Test input: You will need to run the program as follows:
  `> python3 testfile04.py`

5.2. Test User

The following is the test user from the “register a new account” test but with a new password to replace the old password.

- Name: Naba Riaz
- Name: Nam Tran
- Date: 05/11/2022

```
firstname = 'Johnny'
lastname = 'Doe'
firstcar = 'Pontiac'
townname = 'Lalaland'
email = 'johnnydoe@email.com'
newpass = 'johnnyHASapass.456'
```

5.3. Check Sign in page

Test to see if the Sign In button in the navigation bar will lead to the Sign In page when clicked.

- Name: Naba Riaz
- Name: Nam Tran
- Date: 05/11/2022

Expected output: “Passed: The Sign In Page is presented.”

☑ Verified

☐ Not-verified

Below is a screenshot of the verification of passing the test.

```
Go to Sign In page by clicking on Sign In button...
Passed: The Sign In Page is presented.
```

5.4. Check Reset password option

Test to see if the Reset Password button on the sign in page will lead to the Forgot Password page.

- Name: Naba Riaz
- Name: Nam Tran
- Date: 05/11/2022

Expected output: "Passed: The Forgot Password Page is presented."

☑ Verified

☐ Not-verified

Below is a screenshot of the verification of passing the test.

```
Go to Forgot Password page by clicking on Reset password link...
Passed: The Forgot Password Page is presented.
```

5.5. Check Account Verification page

Test to see that the test user account information populates the fields in the Account verification form and it is successfully verified when the "Verify" button is clicked.

- Name: Naba Riaz
- Name: Nam Tran
- Date: 05/11/2022

Expected output: "Passed: The Password Reset Page is presented."

☑ Verified

☐ Not-verified

Below is a screenshot of the verification of passing the test.

```
Fill in Account Verification form...
        Username: johnnydoe@email.com
        First Name: Johnny
        Last Name: Doe

Click on Verify button...
Passed: The Password Reset Page is presented.
```

5.6. Check Password Reset page

Test to see if correct security answers will allow user to change password

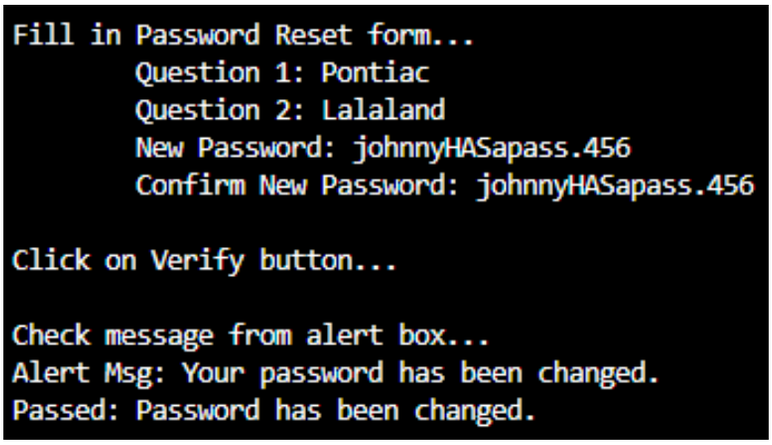
- Name: Naba Riaz
- Name: Nam Tran
- Date: 05/11/2022

Expected output: “Alert Msg: Your password has been changed.” AND “Passed: Password has been changed.” after the password reset form is filled and the verify button is clicked.

☑ Verified

☐ Not-verified

Below is a screenshot of the verification of passing the test.



5.7. Sign in using new password

This test verifies that the user has successfully changed the password and the new password can be used to log in right after receiving confirmation.

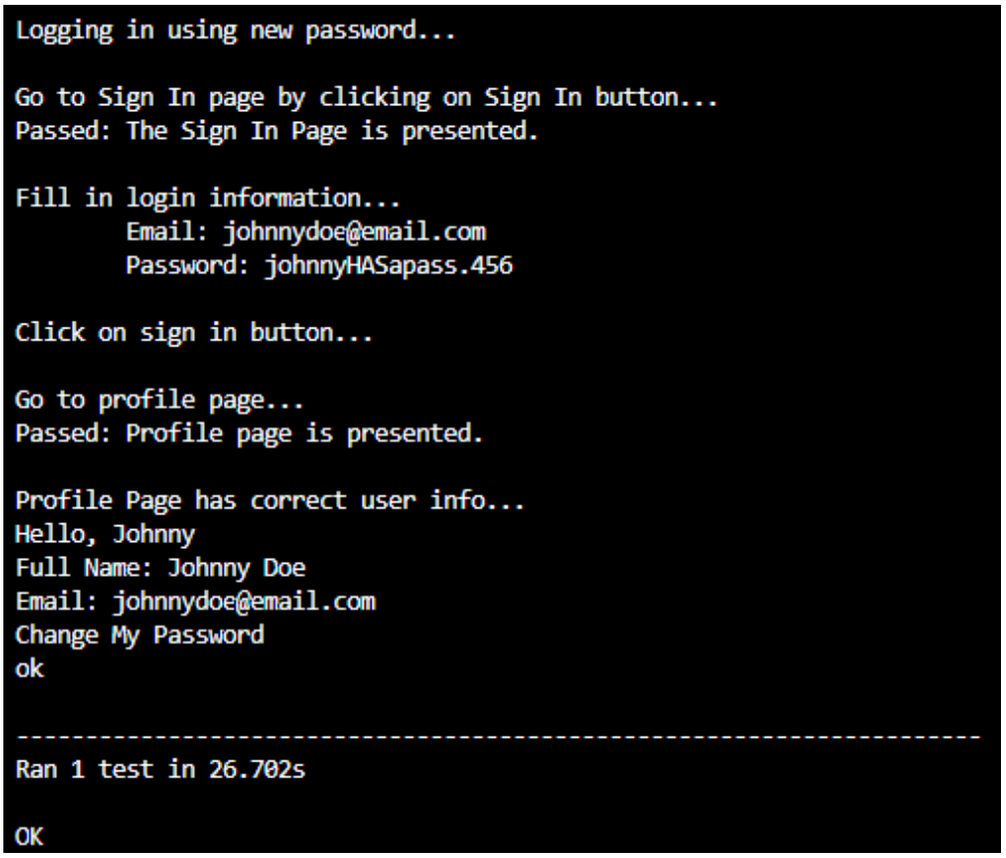
- Name: Naba Riaz
- Name: Nam Tran
- Date: 05/11/2022

Expected Output: Goes to the sign in page by clicking on the sign in button and “Passed: The Sign In page is presented" message is shown. Fills in login information of the user with the new password, clicks on the sign in button. Logs in the user with the new password and goes to the profile page and displays “Passed: Profile page is presented.” The profile page shows correct user info with the updated password.

☑ Verified

☐ Not-verified

Below is a screenshot of the verification of passing the test.



6. Making an order

6.1. Description

- The “Making an order” test will automatically check if the menu page, cart functionality, checkout, and payment system work.
- File Path: *automation-testing/testfile05.py*
- Test input: You will need to run the program as follows:
  `> python3 testfile05.py`

6.2. Check Menu page

This test checks if the Menu button will lead to the Menu page

■ Name: Naba Riaz
■ Name: Nam Tran
■ Date: 05/11/2022

Expected Output: “Passed: The Menu Page is presented.”
Menu page is displayed.

☑ Verified
☐ Not-verified

Below is a screenshot of the verification of passing the test.

```
Go to Menu page by clicking on Menu button...
Passed: The Menu Page is presented.
```

6.3. Check cart components

This test checks the “Add to Cart” buttons on the Menu page, and the “cart” button on NavBar to see if the chosen items will be displayed correctly in the cart.

■ Name: Naba Riaz
■ Name: Nam Tran
■ Date: 05/11/2022

Expected Output: Some items will be added to the cart from different categories.

☑ Verified
☐ Not-verified

Below is a screenshot of the verification of passing the test.

```
Add some items to cart...
        Added Herb Roasted Quail to cart
        Go to House Special Dessert category
        Added Pandan Caramel Flan to cart
```

6.4. Check additional cart components for check out

This test checks if the user can go to checkout from the cart's guest checkout option.

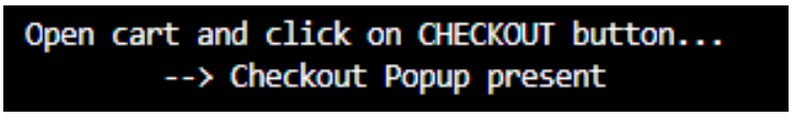
- Name: Naba Riaz
- Name: Nam Tran
- Date: 05/11/2022

Expected Output: Checkout popup will open.

☑ Verified

☐ Not-verified

Below is a screenshot of the verification of passing the test.



6.5. Check payment system

This test checks if the Stripe payment system responds appropriately when given valid payment information.

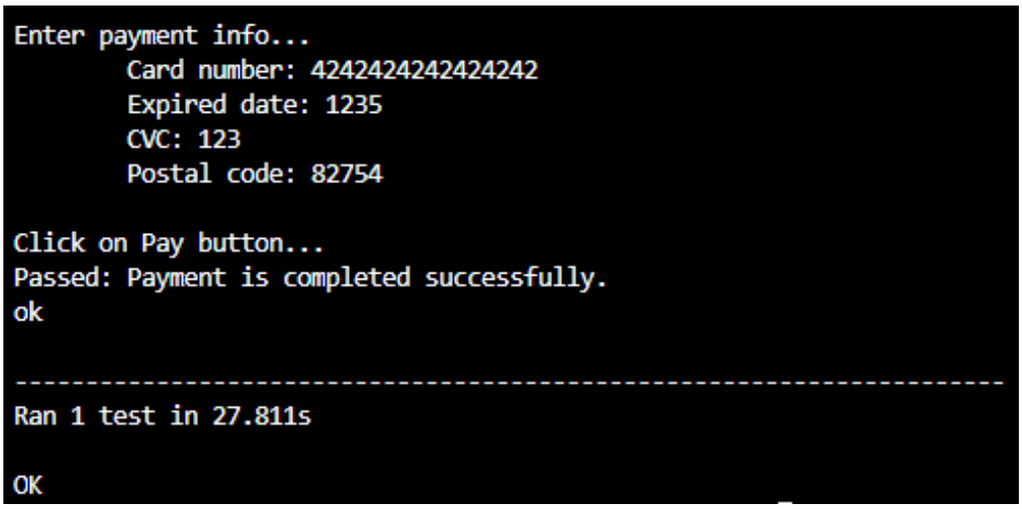
- Name: Naba Riaz
- Name: Nam Tran
- Date: 05/11/2022

Expected Output: "Passed: Payment is completed successfully" after the card information is entered and verified.

☑ Verified

☐ Not-verified

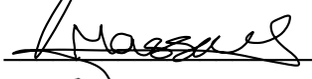
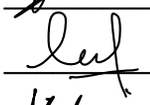
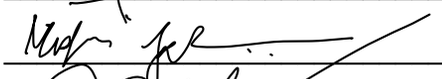
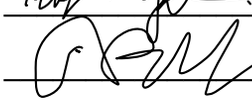
Below is a screenshot of the verification of passing the test.



System Test Verification of Completion

System Test Verification Completed: Date: 05/13/2022

Team members and signatures:

Name	Signature
__Zoha Alvi_____	
__Massoud Bakhtyari_____	
__Duc Nguyen_____	
__Naba Riaz_____	
__Misba Tabassum_____	
__Nam Tran_____