

# IT 414 – SYSTEMS QUALITY ASSURANCE

## LABORATORY ACTIVITY

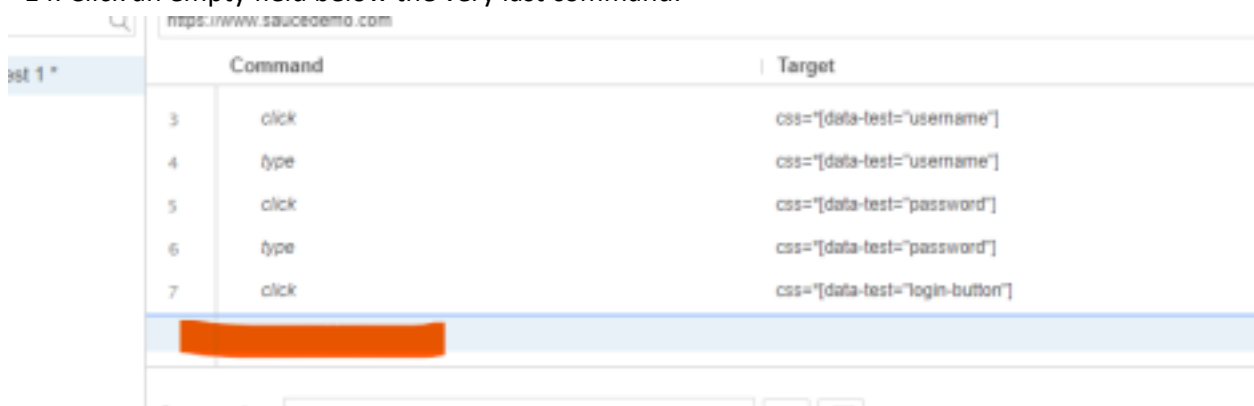
### Selenium Automation Testing

#### Requirements:

1. Computer
2. Internet Connection
3. Google Chrome Browser

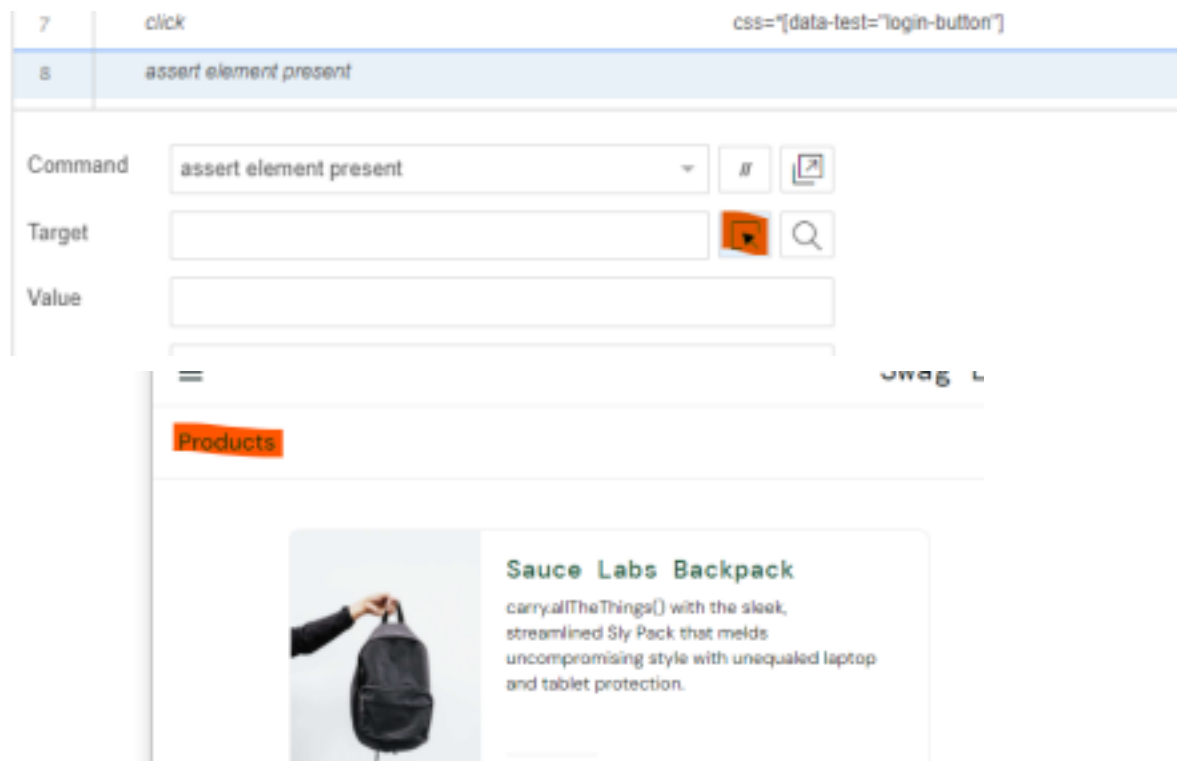
#### Instructions:

1. Open Google Chrome Browser.
2. Goto chrome web store by typing in <https://chrome.google.com/webstore>.
3. Search for selenium IDE and click Selenium IDE in the search results.
4. Click the Add to chrome Button.
5. Goto Google chrome setting and select Google password manager.
6. Click on settings then disable the Offer to save passwords feature. Close the settings tab.
7. Click the extensions icon on the top right corner and click on Selenium IDE.
8. Click on Record a new test in a new project.
9. Enter my First Selenium project as the project name and click Okay.
10. Enter <https://www.saucedemo.com/> as the Base URL then click START RECORDING.
11. Type in standard\_user in the Username field and type in secret\_sauce in the password field THEN Click Login. DO NOT CLICK ANY UNCESSARY THINGS ONCE YOU START RECORDINNG.
12. You should be seeing the home page named Swag Labs, Goto to the Selenium IDE window then click stop recording on the top right corner.
13. Enter Positive test 1 as the TEST NAME THE HIT OK.
14. Click an empty field below the very last command.



|   | Command | Target                         |
|---|---------|--------------------------------|
| 3 | click   | css=[data-test='username']     |
| 4 | type    | css=[data-test='username']     |
| 5 | click   | css=[data-test='password']     |
| 6 | type    | css=[data-test='password']     |
| 7 | click   | css=[data-test='login-button'] |
|   |         |                                |

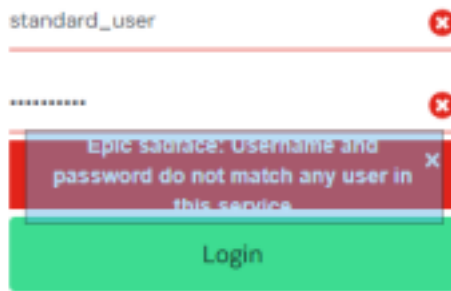
15. In the command field, type in assert element present.
16. Just beside the Target field, click on the pointer icon then click on the Title named Products



17. Go back to the Selenium IDE window and hit Run Current Test command then wait for the test to finish.
18. All commands in Positive Test 1 should pass just like the image below, if this is true then proceed to Instruction 19, if not, delete the test and click add new test and record again. Once you have logged in successfully, stop the recording and proceed to Instruction 14.

|   | Command                  | Target                            | Value         |
|---|--------------------------|-----------------------------------|---------------|
| 1 | ✓ open                   | /                                 |               |
| 2 | ✓ set window size        | 1309x628                          |               |
| 3 | ✓ click                  | css= "[data-test='username']"     |               |
| 4 | ✓ type                   | css= "[data-test='username']"     | standard_user |
| 5 | ✓ click                  | css= "[data-test='password']"     |               |
| 6 | ✓ type                   | css= "[data-test='password']"     | secret_sauce  |
| 7 | ✓ click                  | css= "[data-test='login-button']" |               |
| 8 | ✓ assert element present | css= title                        |               |

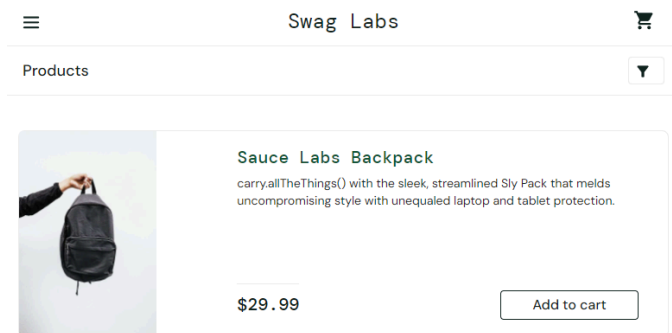
19. Add new test and name the Test Case "Negative Test 1" then click ADD.
20. Click record and enter a valid user name and invalid password then hit Login.
21. Go back to the Selenium IDE window and stop the recording.
22. Add assert element present command, click select target in page icon and click the error message.



23. Run the test.
24. If all command is successful, proceed to create more test cases, 3 more tests for positive test cases using the remaining accepted usernames in the log in page and 10 more tests for negative test cases using amalgamation of invalid user name and password. Make sure to include blank user name and password for negative test cases.
25. Name each test in the same format, [Negative Test number].

## POSITIVE TEST 2

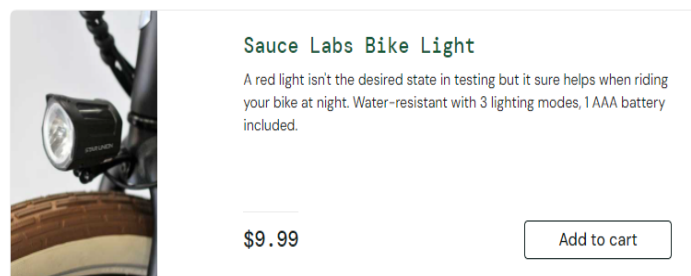
### Sauce Labs Backpack



| Log  | Reference |
|--|-----------|
| 5. click on css="[data-test="password"]        | OK        |
| 6. type on css="[data-test="password"] with va |           |
| 7. click on css="[data-test="login-button"]    | OK        |
| 8. assertElementPresent on css="[data-test="i  |           |

**'Positive Test 2' completed successfully**


## POSITIVE TEST 3



| Log   | Reference |
|---|-----------|
| 4. type on css="[data-test="username"] with value e |           |
| 5. type on css="[data-test="password"] with value s |           |
| 6. click on css="[data-test="login-button"]         | OK        |
| 7. assertElementPresent on css=.inventory_item:nt   |           |

**'Positive Test 3' completed successfully**

## POSITIVE TEST 4



### Sauce Labs Backpack

carry.allTheThings() with the sleek, streamlined Sly Pack that melds uncompromising style with unequaled laptop and tablet protection.

\$7.91

Add to cart

| Log   | Reference |
|---|-----------|
| 4. type on css="[data-test="username"] with valu  |           |
| 5. type on css="*[data-test="password"] with valu |           |
| 6. click on css="*[data-test="login-button"]      | OK        |
| 7. assertElementPresent on css="*[data-test="inv  |           |
| 'Positive Test 4' completed successfully          |           |

NEGATIVE TEST 2

Swag Labs

jelo\_malupet

Password

Epic sadface: Password is required

Login

Accepted usernames are:

standard\_user  
locked\_out\_user  
problem\_user  
performance\_glitch\_user  
error\_user  
visual\_user

Password for all users:

secret\_sauce

| Log  | Reference |
|--|-----------|
| 1. open on /   | OK        |
| 2. setWindowSize on 816x728                                    | OK        |
| 3. click on css="[data-test="username"]                        | OK        |
| 4. type on css="[data-test="username"] with value jelo_malupet | OK        |
| 5. click on css="[data-test="login-button"]                    | OK        |
| 6. assertElementPresent on css="*[data-test="error"]           | OK        |
| 'Negative Test 2' completed successfully                       |           |

NEGATIVE TEST 3

Swag Labs

standard\_user

.....

Epic sadface: Username and password do not match any user in this service


Login

Accepted usernames are:

standard\_user  
locked\_out\_user  
problem\_user  
performance\_glitch\_user  
error\_user

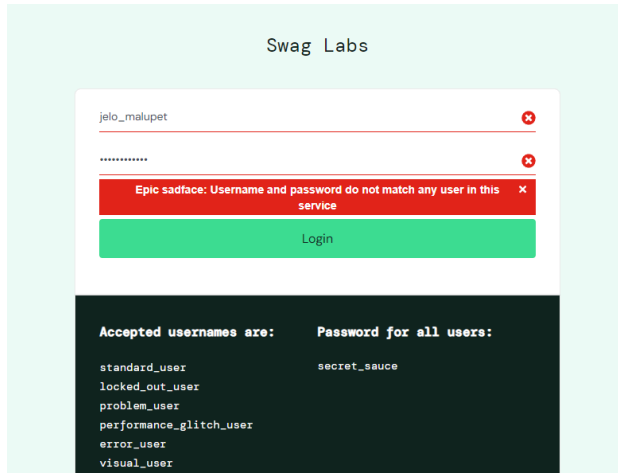
Password for all users:

secret\_sauce

 Selenium IDE is recording...

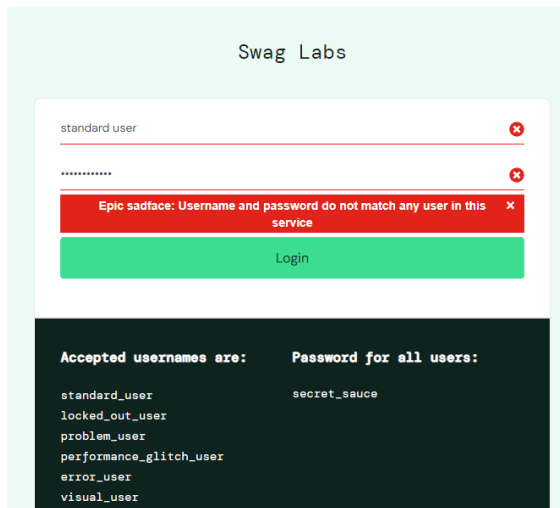
| Log  | Reference |
|--|-----------|
| 2. setWindowSize on 816x728  | OK        |
| 3. click on css="[data-test="username"]                                    | OK        |
| 4. type on css="[data-test="username"] with value standard_user            | OK        |
| 5. type on css="[data-test="password"] with value algfjaasdzdfklgjhlrkgjih | OK        |
| 6. click on css="[data-test="login-button"]                                | OK        |
| 7. assertElementPresent on css="*[data-test="error"]                       | OK        |
| 'Negative Test 3' completed successfully                                   |           |

NEGATIVE TEST 4



| Log  | Reference |
|--|-----------|
| 4. type on css="[data-test="username"] with value jelo_malupet | OK        |
| 5. click on css="[data-test="login-password"]                  | OK        |
| 6. click on css="[data-test="password"]                        | OK        |
| 7. type on css="[data-test="password"] with value secret_sauce | OK        |
| 8. click on css="[data-test="login-button"]                    | OK        |
| 9. assertElementPresent on css="[data-test="error"]            | OK        |
| 'Negative Test 4' completed successfully                       |           |

## NEGATIVE TEST 5



| Log  | Reference |
|--|-----------|
| 8. click on css="[data-test="login-button"]          | OK        |
| 9. doubleClick on css="[data-test="login-button"]    | OK        |
| 10. mouseOut on css="[data-test="login-button"]      | OK        |
| 11. assertElementPresent on css="[data-test="error"] | OK        |
| 'Negative Test 5' completed successfully             |           |

## NEGATIVE TEST 6

Swag Labs

Epic sadface: Username and password do not match any user in this service

Login

**Accepted usernames are:**

standard\_user  
locked\_out\_user  
problem\_user  
performance\_glitch\_user  
error\_user  
visual\_user

**Password for all users:**

secret\_sauce

| Log   | Reference |
|---|-----------|
| 4. type on css="[data-test="username"] with value standard.us |           |
| 5. type on css="[data-test="password"] with value secret_user |           |
| 6. click on css="[data-test="login-button"]                   | OK        |
| 7. assertElementPresent on css="[data-test="error"]           | OK        |
| 'Negative Test 6' completed successfully                      |           |

## NEGATIVE TEST 7

Swag Labs

Epic sadface: Username is required

Login

**Accepted usernames are:**

standard\_user  
locked\_out\_user  
problem\_user  
performance\_glitch\_user

**Password for all users:**

secret\_sauce

| Log   | Reference |
|---|-----------|
| 3. click on css="[data-test="login-button"]         | OK        |
| 4. mouseOver on css="[data-test="login-button"]     | OK        |
| 5. mouseOut on css="[data-test="login-button"]      | OK        |
| 6. assertElementPresent on css="[data-test="error"] | OK        |
| 'Negative Test 7' completed successfully            |           |

## NEGATIVE TEST 8

Swag Labs

Username ✖

password ✖

Epic sadface: Username is required ✖

Login

Accepted usernames are: Password for all users:

|                         |              |
|-------------------------|--------------|
| standard_user           | secret_sauce |
| locked_out_user         |              |
| problem_user            |              |
| performance_glitch_user |              |
| error_user              |              |
| visual_user             |              |

| Log  | Reference |
|--|-----------|
| 3. click on css="[data-test="password"]                        | OK        |
| 4. type on css="[data-test="password"] with value secret_sauce |           |
| 5. click on css="[data-test="login-button"]                    | OK        |
| 6. assertElementPresent on css="[data-test="error"]            | OK        |
| 'Negative Test 8' completed successfully                       |           |

## NEGATIVE TEST 9

Swag Labs

locked\_out\_user ✖

password ✖

Epic sadface: Username and password do not match any user in this service ✖

Login

Accepted usernames are: Password for all users:

|                         |              |
|-------------------------|--------------|
| standard_user           | secret_sauce |
| locked_out_user         |              |
| problem_user            |              |
| performance_glitch_user |              |

| Log  | Reference |
|--|-----------|
| 15. click on css="[data-test="login-button"]         | OK        |
| 16. mouseOver on css="[data-test="login-button"]     | OK        |
| 17. mouseOut on css="[data-test="login-button"]      | OK        |
| 18. assertElementPresent on css="[data-test="error"] | OK        |
| 'Negative Test 9' completed successfully             |           |

## NEGATIVE TEST 10

Swag Labs

Epic sadface: Username and password do not match any user in this service

Login

**Accepted usernames are:**

standard\_user  
locked\_out\_user  
problem\_user  
performance\_glitch\_user  
error\_user  
visual\_user

**Password for all users:**

secret\_sauce

| Log   | Reference |
|---|-----------|
| 13. click on css="[data-test="password"]            | OK        |
| 14. type on css="[data-test="password"] with value  |           |
| 15. click on css="[data-test="login-button"]        | OK        |
| 16. assertElementPresent on css="[data-test="error" |           |
| 'Negative Test 10' completed successfully           |           |

## NEGATIVE TEST 11

Swag Labs

Epic sadface: Username and password do not match any user in this service

Login

**Accepted usernames are:**

standard\_user  
locked\_out\_user  
problem\_user  
performance\_glitch\_user  
error\_user  
visual\_user

**Password for all users:**

secret\_sauce

| Log  | Reference |
|--|-----------|
| 4. type on css="[data-test="username"] with value  |           |
| 5. type on css="[data-test="password"] with value  |           |
| 6. click on css="[data-test="login-button"]        | OK        |
| 7. assertElementPresent on css="[data-test="error" |           |
| 'Negative Test 11' completed successfully          |           |

You will be graded based on the following rubrics.

| Criteria | Excellent (5) | Good (4) | Satisfactory (3) | Needs Improvement (2) |
|----------|---------------|----------|------------------|-----------------------|
|          |               |          |                  |                       |



|                                 |  |   |  |  |
|---------------------------------|--|---|--|--|
| Test Case Design                | Demonstrates a deep understanding of test case design principles.          | Shows a good understanding of test case design principles.            | Test cases are somewhat comprehensive and organized but may lack coverage in some areas. | Test cases lack comprehensiveness, organization, and coverage of critical scenarios.       |
| Test Execution and Verification | Executes test cases flawlessly and consistently produces accurate results. | Executes test cases effectively and produces mostly accurate results. | Executes test cases with minor issues but is able to resolve them satisfactorily.        | Struggles with executing test cases and resolving issues, resulting in inaccurate results. |

|                     |   |   |   |  |
|---------------------|---|---|---|--|
| Overall Performance | Exceeds expectations in all aspects of the laboratory activity. | Performs well in most aspects of the laboratory activity, with minor areas for improvement. | Meets the basic requirements of the laboratory activity but has significant room for improvement. | Struggles in multiple aspects of the laboratory activity, requiring substantial improvement. |
|---------------------|---|---|---|--|