POSTGRADUATE STUDIES "Software tester" WSB University in Poznań

	MINI PROJECT -	 AUTOMATION OF 	: TESTS FOR WEB	APPLICATION USING	ROBOT FRAMEWORK
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Project goal: Automation of	of test cases for the	Bookstore Application	web
	application		

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The name of the tested application: **Book Store Application**

(https://demoqa.com/books)

Environment:

Computer OS: Windows 11

Chrome: 110.0.5481.104 (64-bit)

Pycharm: 17.0.5

Python: 3.11.1

Robot Framework: 6.0.2

Test cases:

ID:001

Test name: Validate the password when a new user is registered

Prerequisites:

- 1. The application is running.
- 2. User isn't logged in.
- 3. Password requirement: Passwords must have at least one non alphanumeric character, one digit ('0'-'9'), one uppercase ('A'-'Z'), one lowercase ('a'-'z'), one special character and Password must be eight characters or longer.

Lp.	Test step	Expected result
1.	Check if page is loaded	Address https://demoga.com/books is visible in the browser bar and the <i>Book Store</i> title is visible on the page.
2.	Click on the <i>Login</i> button	After clicking the <i>Login</i> button the page with the <i>Login</i> title is visible.
3.	Click on the New User button	After clicking the <i>New User</i> button the page with the <i>Register</i> title is visible.
4.	Populate First Name, Last Name, UserName and Password in the Register page.	First Name, Last Name, UserName and Password were populated in the Register page.
5.	Manually click on <i>I'm not a robot</i> checkbox. Perform additional verification as per pop-up, if required.	CAPTCHA verification completed successfully.
6.	Click on the Register button.	Error message is shown at the bottom of the Register page: Passwords must have at least one non alphanumeric character, one digit ('0'-'9'), one uppercase ('A'-'Z'), one lowercase ('a'-'z'), one special character and Password must be eight characters or longer.

Test is considered Successful when application prevents user from registering when password does not meet the requirements.

ID:002

Test name: Logging in the registered user

Prerequisites:

1. The application is running.

- 2. Registered user exists in the application; UserName = aabb; Password = M3cybefidy!.
- 3. User isn't logged in.

Lp.	Test step	Expected result
1.	Check if page is loaded	Address https://demoqa.com/books is visible in the browser bar and the <i>Book Store</i> title is visible on the page.
2.	Click on the <i>Login</i> button	After clicking the <i>Login</i> button the page with the <i>Login</i> title is visible.
3.	Populate <i>UserName</i> and <i>Password</i> in the <i>Register</i> page.	UserName and Password were populated in the Register page.
4.	Click on the <i>Login</i> button	After clicking the <i>Login</i> button the <i>Book Store</i> page is open with the user logged in. <i>User Name</i> is visible on the page.

Test is considered Successful when the user is logged into the application.

ID:003

Test name: Adding book to the registered user collection. Verification that the user cannot add two times the same book to the collection.

Prerequisites:

- 1. The application is running.
- 2. Registered user exists in the application; UserName = aabb; Password = M3cybefidy!.
- 3. User isn't logged in.
- 4. User doesn't have a Git Pocket Guide book in his collection.

Lp.	Test step	Expected result
1.	Check if page is loaded	Address https://demoqa.com/books is visible in the browser bar and the <i>Book Store</i> title is visible on the page.
2.	Click on the <i>Login</i> button	After clicking the <i>Login</i> button the page with the <i>Login</i> title is visible.
3.	Populate <i>UserName</i> and <i>Password</i> in the <i>Register</i> page.	UserName and Password were populated in the Register page.
4.	Click on the <i>Login</i> button	After clicking the <i>Login</i> button the <i>Book Store</i> page is open with the user logged in. <i>User Name</i> is visible on the page.
5.	Click on the Git Pocket Guide link.	After clicking the <i>Git Pocket Guide</i> link the <i>Book Store</i> page is open with the information about the <i>Git Pocket Guide</i> book.
6.	Click on the <i>Add To Your Collection</i> button.	Pop up with a text <i>Book added to your collection</i> is visible to the user.
7.	Click <i>OK</i> on the pop up. Click second time on the <i>Add To Your Collection</i> button.	Pop up with a text <i>Book already present in the your collection!</i> is visible to the user.

Test is considered Successful when the user is able to add the book to the collection and when is not allowed to add the second time the same book to the collection.

ID:004

Test name: Verification of book sorting functionality.

Prerequisites:

1. The application is running.

Lp.	Test step	Expected result
1.	Check if page is loaded	Address https://demoqa.com/books is visible in the browser bar and the <i>Book Store</i> title is visible on the page.
2.	Click on column header with Title name	Books titles are sorted in ascending order by name.

Test is considered Successful when books titles are sorted in ascending order by name.

Attachment 1.

Code for test case ID:001

```
Open Webpage
                    Close Webpage
                    Set Selenium Speed
${login button}
${new user button}
${first name input}
${last name input}
${user name input}
${password input}
${register}
```

```
xpath://*[@id="name"]
${expected error text} Passwords must have at least one non alphanumeric character, one digit ('0'-'9'), one
${login info}
${register info}
Register
  Check If Page Is Loaded
  Fill In First Name
  Fill In Last Name
  Fill In User Name
  Fill In Password
  Check I Am Not A Robot
  Click Register
  Check Expected Result
```

```
Keywords ***
Open Browser
Maximize Browser Window
 Wait Until Page Contains Book Store
Click Button
Check If Page Is Loaded With Argument ${login info}
Click Button
```

```
Check If Page Is Loaded With Argument ${register info}
Input Text    ${last name input} Last
Input Text   ${user name input}   User
Input Text ${password input}
```

Attachment 1.A

Report from executed test case ID:001.

Test completed successfully.



Attachment 2.

Code for test cases ID:002



```
Close Webpage
Test Teardown
Suite Setup
                    Set Selenium Speed
                                                   #Changing the speed of test execution
*** Variables ***
${login button}
                                   xpath://*[@id="login"]
${user name}
                                    xpath://*[@id="userName"]
${password}
                                    xpath://*[@id="password"]
${user name to populate}
                                    aabb
${password to populate}
                                   M3cybefidy!
                                   xpath://*[@id="userName-value"]
${user name value}
${login info}
                                    Login
${book title}
                                   Git Pocket Guide
*** Test Cases ***
Logging in the registered user
  Check If Page Is Loaded
```

```
Click Login Button
  Check If Page Is Loaded With Argument ${login info}
  Fill In UserName
  Fill In Password
  Click Login Button
  Check Expected Result
*** Keywords ***
Open Webpage
  Open Browser https://demoqa.com/books chrome
  Maximize Browser Window
Check If Page Is Loaded
  Wait Until Page Contains Book Store
Click Login Button
```

```
Click Button
                  ${login button}
Check If Page Is Loaded With Argument ${title}
  Wait Until Page Contains ${title}
Fill In UserName
  Check If Page Is Loaded With Argument ${login info}
  Click Element
                   ${user name}
  Input Text
               ${user name} ${user name to populate}
Fill In Password
  Click Element ${password}
  Input Text
              ${password} ${password to populate}
Check Expected Result
  Check If Page Is Loaded With Argument ${book title}
   ${output} = Get WebElement ${user name value}
```

```
Log To Console ${output.text}

Should Match ${output.text} ${user_name_to_populate}

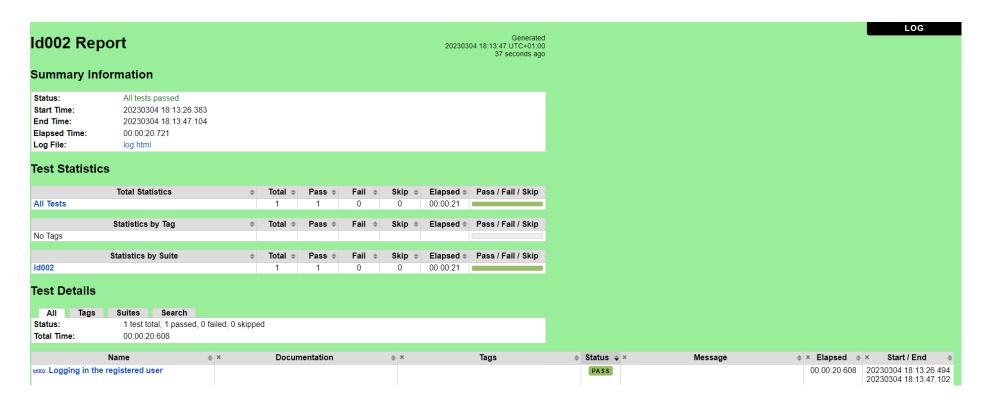
Close Webpage

Close Browser
```

Attachment 2.A

Report from executed test case ID:002.

Test completed successfully.



Attachment 3.

Code for test case ID:003



```
Set Selenium Speed
${login button}
${user name}
${password}
${user name to populate}
${password to populate}
${user name value}
${book1}
${add to your collection button}
fullButton"]/*[@id="addNewRecordButton"])
${message with second book}
${message with add book}
${login info}
${book title}
```

```
${profile text}
${profile}
${delete books}
${confirm}
  Check If Page Is Loaded
  Click Login Button
  Fill In UserName
  Fill In Password
   Click Login Button
  Click On Book
  Add Book
  Add Book Second Time
```

```
Open Browser
Maximize Browser Window
Click Button ${login button}
Wait Until Page Contains Book Store
Wait Until Page Contains ${title}
Check If Page Is Loaded With Argument ${login info}
Click Element
Input Text    ${user name}    ${user name to populate}
```

```
Fill In Password
  Click Element ${password}
  Input Text
  Check If Page Is Loaded With Argument ${book title}
   ${output} = Get WebElement ${user name value}
   Log To Console ${output.text}
   Should Match ${output.text} ${user name to populate}
  Check If Page Is Loaded With Argument ${book title}
  Click Element
  Check If Page Is Loaded With Argument ${book title}
```

```
execute javascript window.scrollTo(0,500)
${message}= Handle Alert action=accept
Log To Console
Should Match ${message with add book} ${message}
Check If Page Is Loaded With Argument ${book title}
Click Button     ${add to your collection button}
${message}= Handle Alert action=accept
Log To Console
Should Match ${message with second book} ${message}
click element ${profile}
Check If Page Is Loaded With Argument ${profile text}
execute javascript window.scrollTo(0,500)
```

```
Click Button ${delete_books}

Click Button ${confirm}

Handle Alert action=accept

Close Webpage

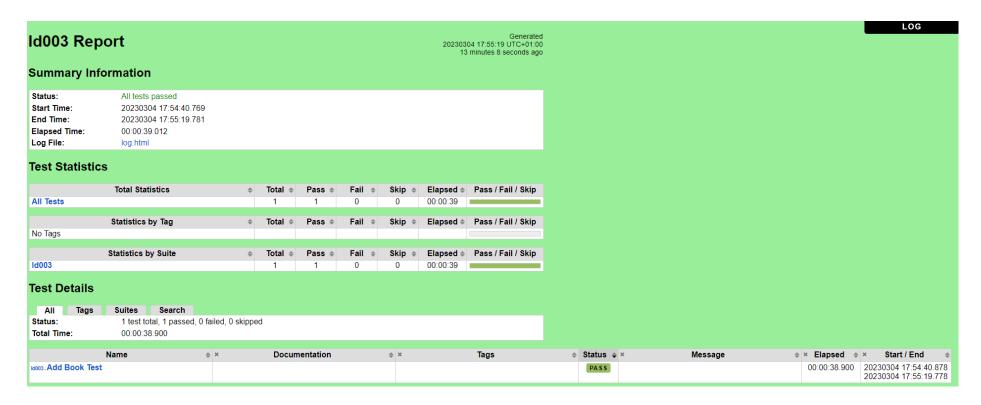
Remove book if exist

Close Browser
```

Attachment 3.A

Report from executed test case ID:003.

Test completed successfully.



Attachment 4.

Code for test case ID:004

```
Library SeleniumLibrary

Library Collections #Enabling list creation and working on the lists.

Test Setup Open Webpage
```

```
Close Webpage
                  Set Selenium Speed 0.5 #Changing the speed of test execution
${title}
${table title element} xpath://*[@class="rt-td"]/*[@class="action-buttons"]
  Click Title Column
  Check Order
  Open Browser
  Maximize Browser Window
```

```
Wait Until Page Contains Book Store
    Append To List ${list} ${book.text}
 ${sorted list} = Copy List ${list}
 Lists Should Be Equal ${sorted list} ${list}
```

Close Webpage

Close Browser

Attachment 4.A

Report from executed test case ID:004.

Test failed.

Defect ID: 004-001 Sorting functionality not working properly for column *Title* on *Book Store* page.

Environment: Windows 11; Chrome 110.0.5481.104 (64-bit)

Detected in: test case ID:004; step 2

Test step	Expected result	Actual result
Click on column header with <i>Title</i> name	Books titles are sorted in ascending order by name.	Books titles are not sorted in ascending order by name.

Defect category: Application error

Generated 20230219 21:48:10 UTC+01:00 7 minutes 43 seconds ago

Summary Information

1 test failed Status:

Start Time: 20230219 21:47:56.607 20230219 21:48:10.302 End Time: 00:00:13.695 Elapsed Time:

Log File: log.html

Test Statistics

	Total Statistics	\$ Total \$	Pass \$	Fail \$	Skip \$	Elapsed \$	Pass / Fail / Skip
All Tests		1	0	1	0	00:00:14	
	Statistics by Tag	\$ Total \$	Pass \$	Fail \$	Skip \$	Elapsed \$	Pass / Fail / Skip
No Tags							
	Statistics by Suite	\$ Total +	Pass +	Fail +	Skip \$	Elapsed \$	Pass / Fail / Skip
Id003		1	0	1	0	00:00:14	

Test Details

 All
 Tags
 Suites
 Search

 Status:
 1 test total, 0 passed, 1 failed, 0 skipped

 Total Time:
 00:00:13.579

Status: Total Time:

Name	⇒ ×	Documentation	\$ ×	Tags	⇒ Status ⇒ ×	Message	⇒ × Elapsed ⇒	× Start / End \$
lazza. Verification of book sorting functionality					Index 0 Guide Index 1 JavaSc Index 2 ASPN 1 Index 3 JavaSc Index 4 JS Index 5 Applica Index 6 Second	ELearning JavaScript Design Patterns I= Speaking cript. Programming JavaScript Applications I= You Don't Know Sepeaking JavaScript I= Programming JavaScript	xet	20230219 21:47 56 720 20230219 21:48:10.299

LOG