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 ${password input} 123
```

Attachment 1.A

Report from executed test case ID:001.

Test completed successfully.



Attachment 2.

Code for test cases ID:002 and ID:003



```
Close Webpage
                   Set Selenium Speed
${login button}
${user name}
${user name to populate}
${password to populate}
${user name value}
${book1}
${add to your collection button}
${message with second book} Book already present in the your collection!
${message with add book}
${login info}
${book title}
```

```
Check If Page Is Loaded
Check If Page Is Loaded With Argument ${login info}
Fill In UserName
Fill In Password
Click Login Button
Check Expected Result
Check If Page Is Loaded
Click Login Button
Fill In UserName
Fill In Password
Click On Book
```

```
Add Book
Add Book Second Time
Open Browser https://demoqa.com/books chrome
Maximize Browser Window
Wait Until Page Contains Book Store
Wait Until Page Contains ${title}
```

```
Check If Page Is Loaded With Argument ${login info}
Input Text    ${user name}    ${user name to populate}
Input Text  ${password}  ${password to populate}
Check If Page Is Loaded With Argument ${book title}
Check If Page Is Loaded With Argument ${book title}
Click Element ${book1}
```

```
Check If Page Is Loaded With Argument ${book title}
Check If Page Is Loaded With Argument ${book title}
Log To Console ${message}
Close Browser
```

Attachment 2.A

Report from executed test cases ID:002 and ID:003

Both tests were completed successfully.



Attachment 3.

Code for test case ID:004

```
Open 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
```

```
** Keywords ***
Open Browser https://demoqa.com/books chrome
Maximize Browser Window
Wait Until Page Contains Book Store
    Append To List ${list} ${book.text}
```

```
${sorted_list} = Copy List ${list}

Sort List ${sorted_list}

Log To Console ${sorted_list}

Lists Should Be Equal ${sorted_list} ${list}

Close Webpage

Close Browser
```

Attachment 3.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

