Учреждение образования

«Белорусский государственный университет

информатики и радиоэлектронике»

Кафедра инженерной психологии и эргономики

Отчет по

ЛАБОРАТОРНОЙ РАБОТЕ №6

Написание тестовой документации. Использование Selenium для
тестирования веб-приложений.

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Test Case ID	TC_001	Test Case Description	Test the Login Functionality with valid credentials		
Created By	A. Listvanovich	Reviewed By	V. Kabarikha	Version	v0.0.6

Tester's Name	A. Listvanovich	Date Tested	13-Nov-2023	Test Case (Pass/Fail/Not	Pass

S #	Prerequisites:			S #	Test Data
1	Access to Chrome Browser			1	username = user
2				2	password = 617883d5-f8b6-4772-b48d-503d0ad65cfe

Test Scenario Verify on entering valid username and password, the customer can login

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Navigate to http://localhost:8080/login	Site should open	As Expected	Pass
2	Enter username & password	Credential can be entered	As Expected	Pass
3	Click "Sign in"	Cutomer is logged in	As Expected	Pass

Test Case ID	TC_002	Test Case Description	Test the Login Functionality with invalid credentials		
Created By	A. Listvanovich	Reviewed By	V. Kabarikha	Version	v0.0.6

QA Tester's Log

Tester's Name	A. Listvanovich	Date Tested	13-Nov-2023	Test Case (Pass/Fail/Not	Pass

S #	Prerequisites:			S #	Test Data
1	Access to Chrome Browser			1	username = wrong_user
2				2	password = simpleqwerty

Test Scenario Verify on entering invalid username and password, the customer can not login

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Navigate to	Site should open	As Expected	Pass
2	Enter username & password	Credential can be entered	As Expected	Pass
3	Click "Sign in"	"Bad credentials" error	As Expected	Pass

Test Case ID	TC_003	Test Case Description	Test number flipper function with valid data		
Created By	A. Listvanovich	Reviewed By	V. Kabarikha	Version	v0.0.6

Tester's Name	A. Listvanovich	Date Tested	13-Nov-2023	Test Case (Pass/Fail/Not	Pass

S #	Prerequisites:		S #	Test Data
1	Access to Chrome Browser		1	username = user
2			2	password = 617883d5-f8b6-4772-b48d-503d0ad65cfe
			3	number = 123456

Test Scenario Verify that number flipper is returning correct number

| Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Navigate to http://localhost:8080/login	Site should open	As Expected	Pass
2	Enter username & password	Credential can be entered	As Expected	Pass
3	Click "Sign in"	Cutomer is logged in	As Expected	Pass
4	Enter number to "number flipper" data	Number can be entered	As Expected	Pass
5	Click "Flip number"	Flipped number (654321) appears	As Expected	Pass

Test Case ID	TC_004	Test Case Description	Test number flipper function with invalid data		
Created By	A. Listvanovich	Reviewed By	V. Kabarikha	Version	v0.0.6

Tester's Name	A. Listvanovich	Date Tested	13-Nov-2023	Test Case (Pass/Fail/Not	Pass

S #	Prerequisites:		S #	Test Data
1	Access to Chrome Browser		1	username = user
2			2	password = 617883d5-f8b6-4772-b48d-503d0ad65cfe
			3	number = 9999999999999999

Test Scenario Verify that number flipper is returning correct number

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Navigate to http://localhost:8080/login	Site should open	As Expected	Pass
2	Enter username & password	Credential can be entered	As Expected	Pass
3	Click "Sign in"	Cutomer is logged in	As Expected	Pass
4	Enter number to "number flipper" data	Number can be entered	As Expected	Pass
5	Click "Flip number"	Loader spins infinitely	As Expected	Pass

Test Case ID	TC_005	Test Case Description	Test "Remove duplicates" function with valid data		
Created By	A. Listvanovich	Reviewed By	V. Kabarikha	Version	v0.0.6

Tester's Name	A. Listvanovich	Date Tested	13-Nov-2023	Test Case (Pass/Fail/Not	Pass

S #	Prerequisites:		S #	Test Data
1	Access to Chrome Browser		1	username = user
2			2	password = 617883d5-f8b6-4772-b48d-503d0ad65cfe
			3	payload = 1, 1, 2, 3, 4, 4, 5, 2

Test Scenario Verify that "Remove duplicates" is returning correct result

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Navigate to http://localhost:8080/login	Site should open	As Expected	Pass
2	Enter username & password	Credential can be entered	As Expected	Pass
3	Click "Sign in"	Cutomer is logged in	As Expected	Pass
4	Enter payload to "remove duplicates" data	List can be entered	As Expected	Pass
5	Click "Remove duplicates"	List [1,2,3,4,5] appears	As Expected	Pass

Test Case ID	TC_006	Test Case Description	Test "Remove duplicates" function with invalid data		
Created By	A. Listvanovich	Reviewed By	V. Kabarikha	Version	v0.0.6

Tester's Name	A. Listvanovich	Date Tested	13-Nov-2023	Test Case (Pass/Fail/Not	Pass

S #	Prerequisites:		S #	Test Data
1	Access to Chrome Browser		1	username = user
2			2	password = 617883d5-f8b6-4772-b48d-503d0ad65cfe
			3	payload = random,string

Test Scenario Verify that "Remove duplicates" doesn't work for invalid data

| Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Navigate to http://localhost:8080/login	Site should open	As Expected	Pass
2	Enter username & password	Credential can be entered	As Expected	Pass
3	Click "Sign in"	Cutomer is logged in	As Expected	Pass
4	Enter payload to "remove duplicates" data	Payload can be entered	As Expected	Pass
5	Click "Remove duplicates"	Loader spins infinitely	As Expected	Pass

TC_001.py

```python
from selenium import webdriver
from selenium.webdriver.common.by import By
from cfg import username, password


browser = webdriver.Firefox()
browser.get('http://localhost:8080/login')
username_field = browser.find_element(by=By.ID, value='username')
password_field = browser.find_element(by=By.ID, value='password')
username_field.send_keys(username)
password_field.send_keys(password)
submit_button = browser.find_element(by=By.CSS_SELECTOR,
value='button.btn-primary')
submit_button.click()
```
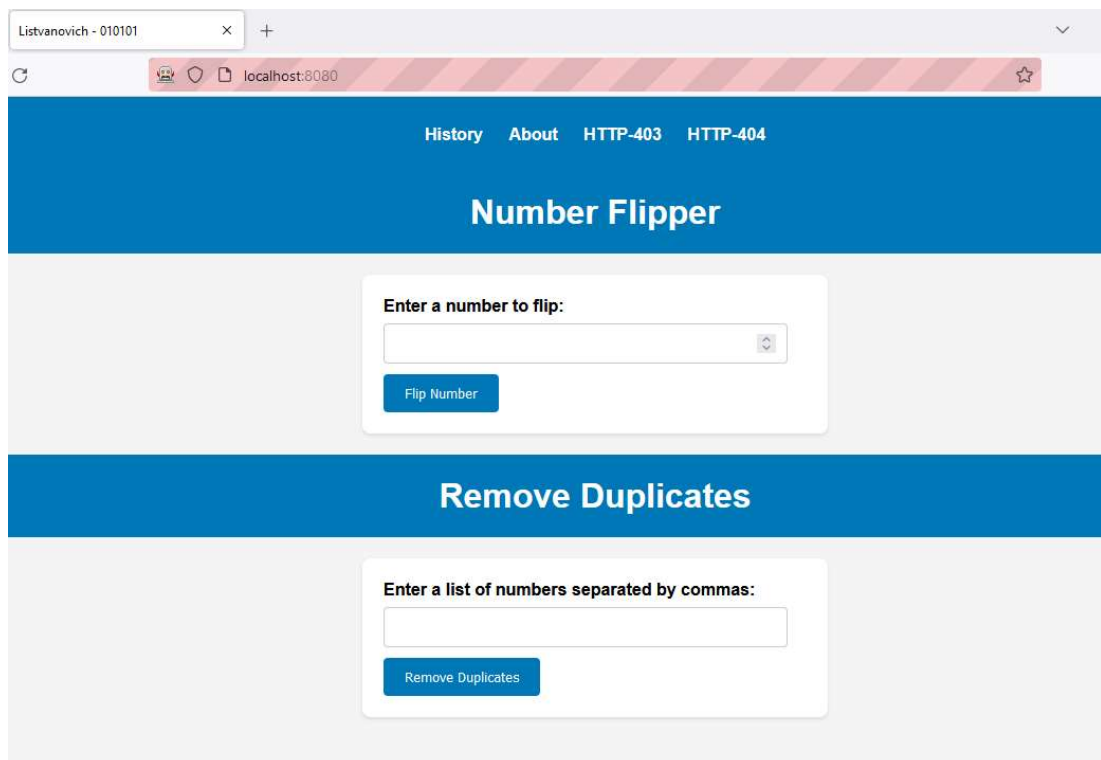

Результат выполнения TC_001.py

TC_002.py

```python
from selenium import webdriver
from selenium.webdriver.common.by import By


browser = webdriver.Firefox()

browser.get('http://localhost:8080/login')

username_field = browser.find_element(by=By.ID, value='username')

password_field = browser.find_element(by=By.ID, value='password')

username_field.send_keys("wrong_user")

password_field.send_keys("simpleqwerty")

submit_button = browser.find_element(by=By.CSS_SELECTOR, value='button.btn-primary')

submit_button.click()
```
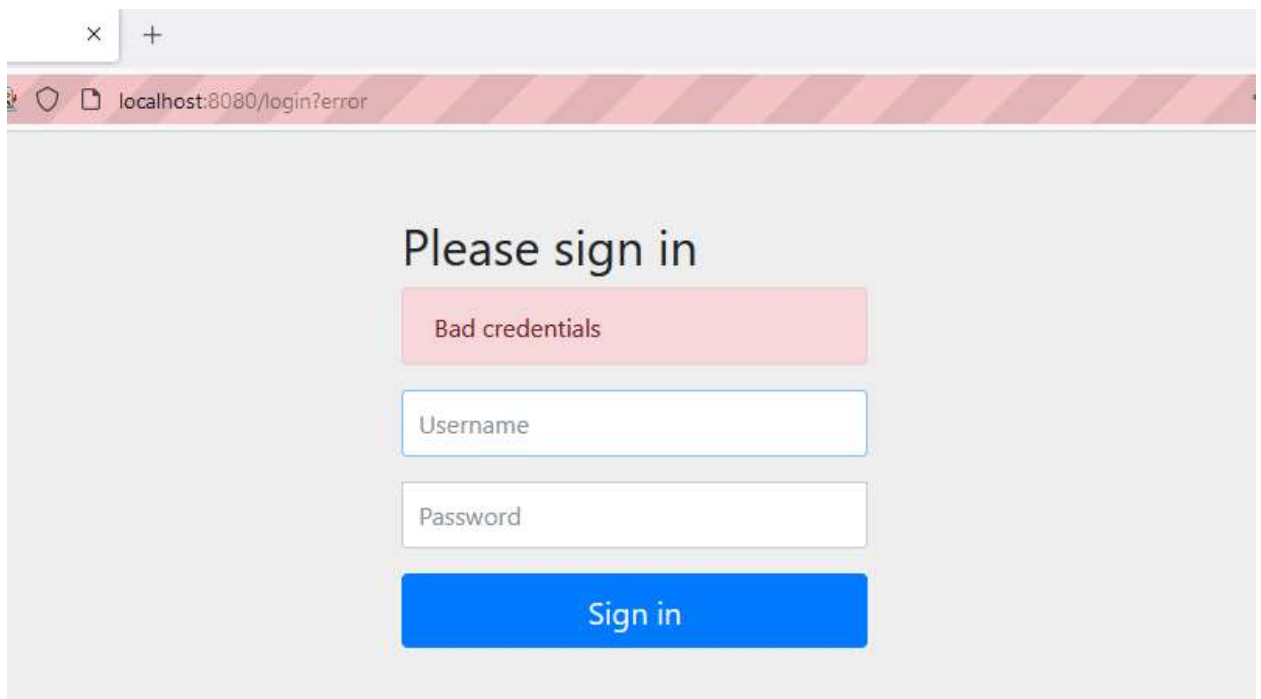
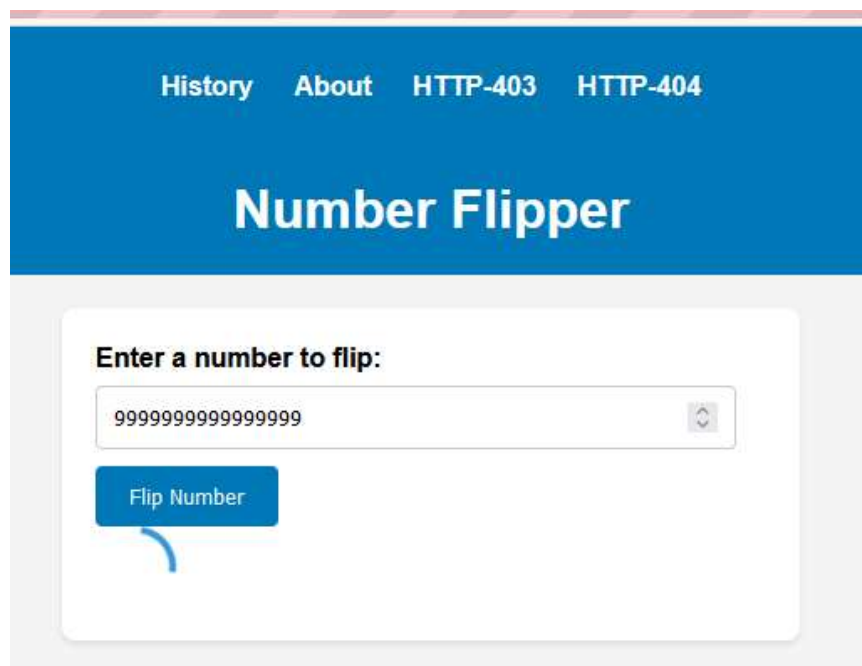

Результат выполнения TC_002.py

TC_003.py

```python
from selenium import webdriver

from selenium.webdriver.common.by import By

from cfg import username, password

browser = webdriver.Firefox()

browser.get('http://localhost:8080/login')

username_field = browser.find_element(by=By.ID, value='username')

password_field = browser.find_element(by=By.ID, value='password')

username_field.send_keys(username)

password_field.send_keys(password)

submit_button = browser.find_element(by=By.CSS_SELECTOR, value='button.btn-primary')

submit_button.click()

number_to_flip_input = browser.find_element(by=By.ID, value='numberToFlip')

number_to_flip_input.send_keys('123456')

flip_button = browser.find_element(by=By.ID, value='btn_flipNumber')

flip_button.click()
```
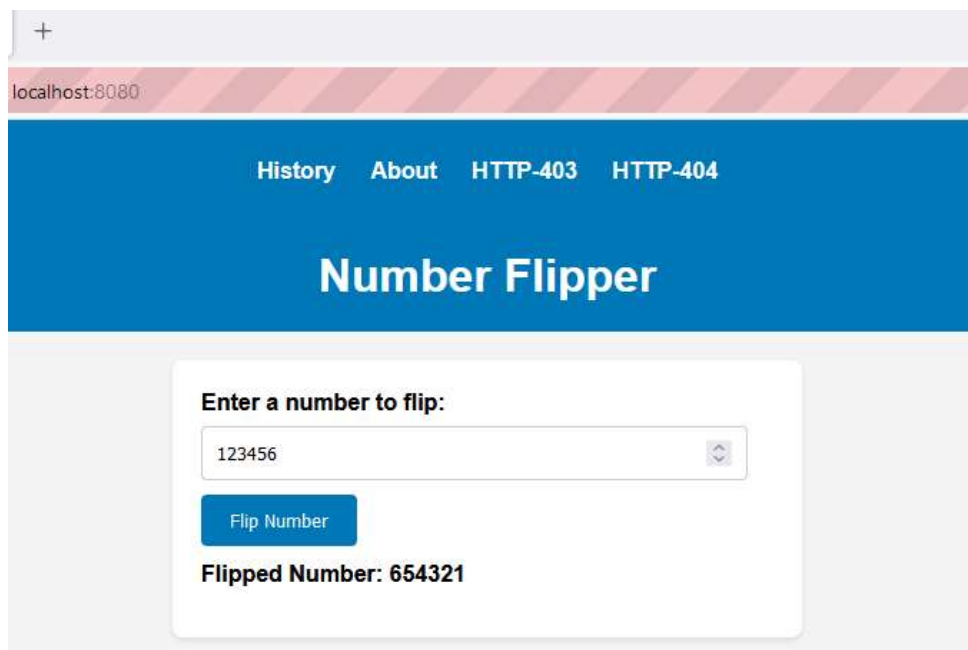

Результат выполнения TC_003.py

TC_004.py

```python
from selenium import webdriver
from selenium.webdriver.common.by import By
from cfg import username, password
browser = webdriver.Firefox()
browser.get('http://localhost:8080/login')
username_field = browser.find_element(by=By.ID, value='username')
password_field = browser.find_element(by=By.ID, value='password')
username_field.send_keys(username)
password_field.send_keys(password)
submit_button = browser.find_element(by=By.CSS_SELECTOR,
value='button.btn-primary')
submit_button.click()
number_to_flip_input = browser.find_element(by=By.ID, value='numberToFlip')
number_to_flip_input.send_keys('9999999999999999')
flip_button = browser.find_element(by=By.ID, value='btn_flipNumber')
flip_button.click()
```


Результат выполнения TC_004.py

TC_005.py

```python
from selenium import webdriver
from selenium.webdriver.common.by import By
from cfg import username, password


browser = webdriver.Firefox()
browser.get('http://localhost:8080/login')
username_field = browser.find_element(by=By.ID, value='username')
password_field = browser.find_element(by=By.ID, value='password')
username_field.send_keys(username)
password_field.send_keys(password)
submit_button = browser.find_element(by=By.CSS_SELECTOR,
value='button.btn-primary')
submit_button.click()
numbers = browser.find_element(by=By.ID, value='numbers')
numbers.send_keys('1, 1, 2, 3, 4, 4, 5, 2')
flip_button = browser.find_element(by=By.ID, value='btn_removeDuplicates')
flip_button.click()
```
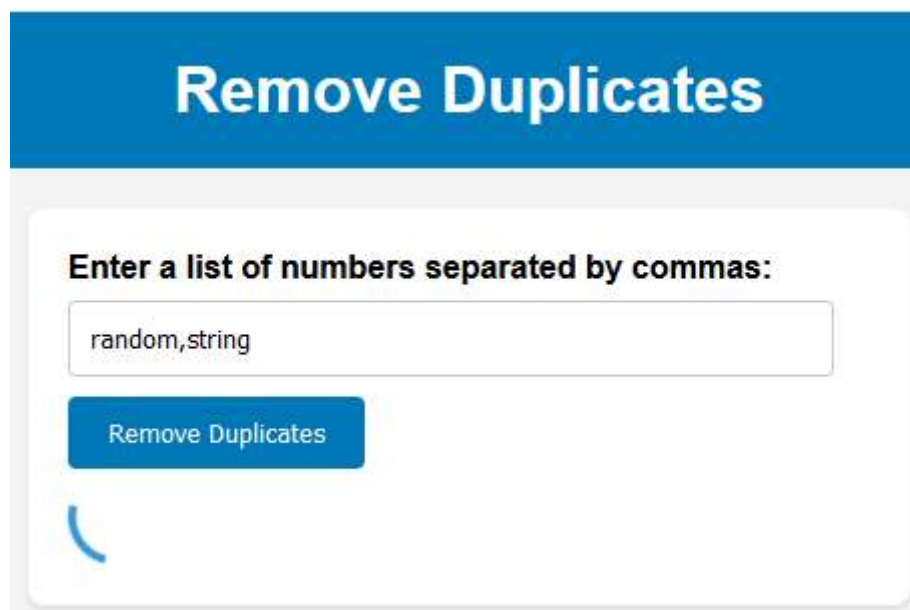

Результат выполнения TC_005.py

TC_006.py

```python
from selenium import webdriver
from selenium.webdriver.common.by import By
from cfg import username, password


browser = webdriver.Firefox()
browser.get('http://localhost:8080/login')
username_field = browser.find_element(by=By.ID, value='username')
password_field = browser.find_element(by=By.ID, value='password')
username_field.send_keys(username)
password_field.send_keys(password)
submit_button = browser.find_element(by=By.CSS_SELECTOR,
value='button.btn-primary')
submit_button.click()
numbers = browser.find_element(by=By.ID, value='numbers')
numbers.send_keys('random,string')
flip_button = browser.find_element(by=By.ID, value='btn_removeDuplicates')
flip_button.click()
```


Результат выполнения TC_006.py