TUTORIAL 9

9.Perform website testing using Selenium for multiple pages and functionalities.

Objective:

To perform automated testing on a multi-page website using Selenium in Python, covering functionalities like:

- 1. Login
- 2. Navigate to Account Overview
- 3. Transfer Funds
- 4. Logout

Tools & Setup

Prerequisites:

- Python installed (python.org)
- Install Selenium:

pip install selenium

• Download ChromeDriver: https://sites.google.com/chromium.org/driver

Test Website:

http://parabank.parasoft.com/parabank/index.htm

Step-by-Step Selenium Testing Script

Step 1: Import and Setup

from selenium import webdriver from selenium.webdriver.common.by import By import time

Launch browser
driver = webdriver.Chrome()
driver.maximize_window()
driver.get("http://parabank.parasoft.com/parabank/index.htm")

Step 2: Login Test

```
# Login with valid credentials
driver.find_element(By.NAME, "username").send_keys("john") # valid demo user
driver.find_element(By.NAME, "password").send_keys("demo")
driver.find_element(By.XPATH, "//input[@value='Log In']").click()

# Wait for page to load
time.sleep(2)

# Verify Login
if "Accounts Overview" in driver.page_source:
    print(" Login Successful")
else:
    print(" Login Failed")
```

Step 3: Navigate to Account Overview Page

```
# Click on 'Accounts Overview'
driver.find_element(By.LINK_TEXT, "Accounts Overview").click()
time.sleep(2)

# Verify Account List
if "Account Number" in driver.page_source:
    print(" Account Overview Loaded Successfully")
else:
    print(" Account Overview Failed")
```

Step 4: Transfer Funds Functionality

```
# Navigate to Transfer Funds
driver.find_element(By.LINK_TEXT, "Transfer Funds").click()
time.sleep(1)

# Input transfer details
driver.find_element(By.ID, "amount").send_keys("100")
driver.find_element(By.ID, "fromAccountId").send_keys("12345") # Use actual account ID if needed
driver.find_element(By.ID, "toAccountId").send_keys("12346") # Use actual account ID if needed
driver.find_element(By.XPATH, "//input[@value='Transfer']").click()
time.sleep(2)

# Verify transfer success
if "Transfer Complete!" in driver.page_source:
    print(" Fund Transfer Successful")
else:
    print(" Fund Transfer Failed")
```

Step 5: Logout Test

```
# Logout
driver.find_element(By.LINK_TEXT, "Log Out").click()
time.sleep(2)

# Verify logout
if "Customer Login" in driver.page_source:
    print(" Logout Successful")
else:
    print(" Logout Failed")
```

Step 6: Close Browser

driver.quit()

Output Summary Example

- ✓ Login Successful
- Account Overview Loaded Successfully
- ▼ Fund Transfer Successful
- ✓ Logout Successful

Test Report Format (for Students)

Test Case ID	Functionality	Steps Performed	Expected Result	Actual Result	Status
TC_01	Login	Enter valid credentials	Dashboard loads	Dashboard loaded	Pass
TC_02	Account Overview	Click on Account Overview	Account list shown	Account list shown	Pass
TC_03	Transfer Funds	Enter details and transfer	Transfer success message	Message shown	Pass
TC_04	Logout	Click logout	Login page appears	Login page shown	Pass

Assignment for Students

Task Description 1 Automate login, transfer, and logout 2 Add invalid login test 3 Take screenshots on failure 4 Store test report in Excel 5 Use unittest or pytest to automate multiple tests

Optional Enhancements

Take Screenshot on Failure

driver.save screenshot("failure.png")

Add Assertion (using Python assert)

assert "Accounts Overview" in driver.page source