

A Project Report On

# **Software Testing and Quality Assurance (Mini Project II)**

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## **Title:**

Create a small web-based application by selecting relevant system environment/platform and programming languages. Narrate concise Test Plan consisting features to be tested and bug taxonomy. Narrate scripts in order to perform regression tests. Identify the bugs using Selenium WebDriver and IDE and generate test reports encompassing exploratory testing

## **Problem Definition:**

Perform Web testing and identify the bugs using Selenium WebDriver and IDE and generate test reports encompassing exploratory testing on a self developed web app.

## **Objective**

Perform testing on a blogging site and write test cases.

## **Test Environment:**

Windows 10 environment

Selenium chrome

webdriver

Selenium IDE

Google Chrome

## **Theory:**

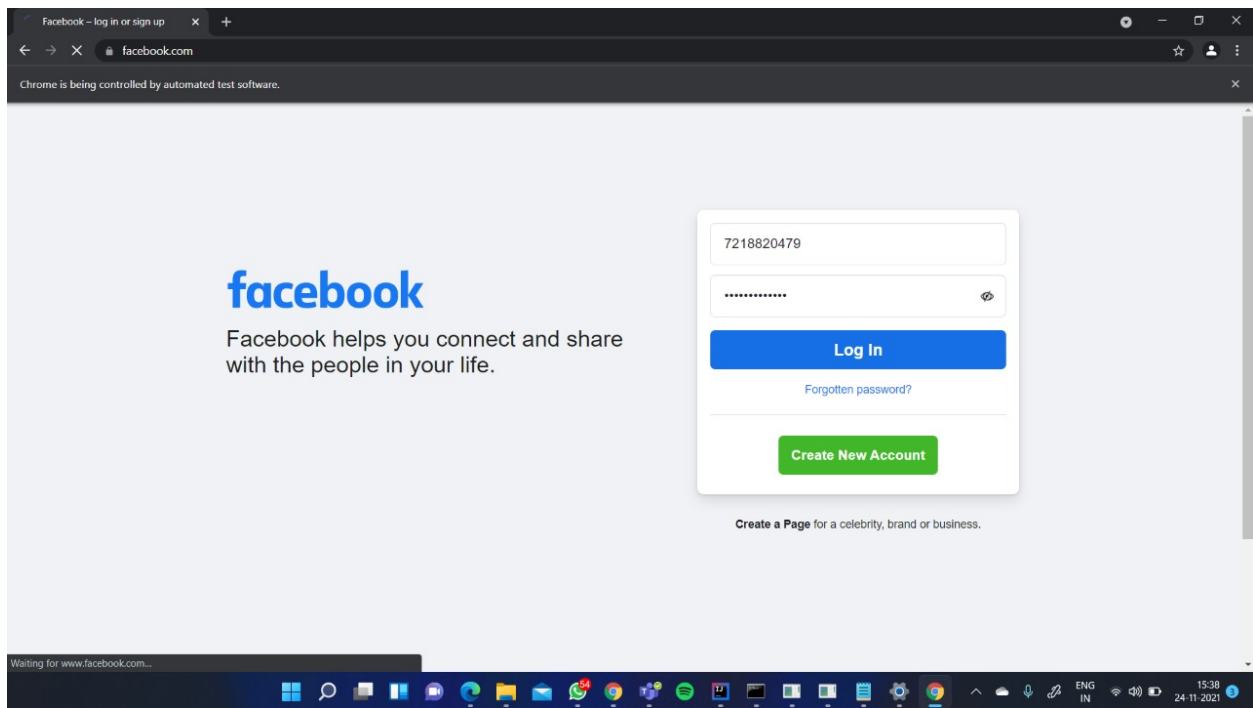
### **Selenium:**

Selenium is a free (open source) automated testing suite for web applications across different browsers and platforms. Selenium is a suite of software tools to automate Web Browsers. It is an Open source suite of tools mainly used for Functional and Regression Test Automation. Selenium is a free (open source) automated testing suite for web applications across different browsers and platforms. It is quite similar to HP Quick Test Pro (QTP now UFT) only that Selenium focuses on automating web-based applications. Testing done using a Selenium tool is usually referred as Selenium Testing.

### **Selenium IDE:**

Selenium IDE (Integrated Development Environment) is primarily a record/run tool that a test case developer uses to develop Selenium Test cases. Selenium IDE is an easy to use tool from the [Selenium Test Suite](#) and can even be used by someone new to developing automated test cases for their web applications. One does not require any special setup to get started with Selenium IDE. You just need to add the extension of your specific browser. Selenium IDE provides you with a GUI (Graphical User Interface) for easily recording your interactions with the website.

Selenium IDE allows a user or a test case developer to create the test cases and testsuites and edit it later as per their requirements. The development environment also provides the capability of converting test cases to different programming languages, which makes it easier for the user and does not mandate the need for knowing a specific programming language.



**Screenshot of Login Page**

# Output logs of sample tests

```
Command Prompt
D:\beminiprojects\STQA\seleniumpython>fbtest.py

===== WebDriver manager =====
Current google-chrome version is 96.0.4664
Get LATEST chromedriver version for 96.0.4664 google-chrome
Driver [C:\Users\ltejss\wdm\drivers\chromedriver\win32\96.0.4664.45\chromedriver.exe] found in cache

DevTools listening on ws://127.0.0.1:61928/devtools/browser/9706fe7e-2ded-43bf-917a-92b64b2c4bbf
Opened Facebook
fbtest.py:25: DeprecationWarning: find_element_by_* commands are deprecated. Please use find_element() instead
    emailid = driver.find_element_by_id("email")
Email Id entered
[22832:32740:1124/153447.296:ERROR:chrome_browser_main_extra_parts_metrics.cc(226)] crbug.com/1216328: Checking Bluetooth availability started. Please report if there is no report that this ends.
[22832:32540:1124/153447.296:ERROR:device_event_log_impl.cc(214)] [15:34:47.298] USB: usb_device_handle_win.cc:1048 Failed to read descriptor from node connection: A device attached to the system is not function
ing. (0x1F)
[22832:32540:1124/153447.331:ERROR:device_event_log_impl.cc(214)] [15:34:47.332] USB: usb_device_handle_win.cc:1048 Failed to read descriptor from node connection: A device attached to the system is not function
ing. (0x1F)
[22832:32740:1124/153447.331:ERROR:chrome_browser_main_extra_parts_metrics.cc(229)] crbug.com/1216328: Checking Bluetooth availability ended.
[22832:32740:1124/153447.331:ERROR:chrome_browser_main_extra_parts_metrics.cc(232)] crbug.com/1216328: Checking default browser status started. Please report if there is no report that this ends.
[22832:32740:1124/153447.415:ERROR:chrome_browser_main_extra_parts_metrics.cc(236)] crbug.com/1216328: Checking default browser status ended.
fbtest.py:30: DeprecationWarning: find_element_by_* commands are deprecated. Please use find_element() instead
    passw = driver.find_element_by_id('pass')
Password entered
fbtest.py:35: DeprecationWarning: find_element_by_* commands are deprecated. Please use find_element() instead
    nextButton = driver.find_element_by_name('login')
Logged in successfully
Now Closing Window
Test carried out successfully!

D:\beminiprojects\STQA\selenium>^S
```

## Source code

```
import time

from selenium import webdriver

from selenium.webdriver.chrome.service
import Service

from selenium.webdriver.common.keys
import Keys

from selenium import webdriver

from selenium.webdriver.chrome.service
import Service

from webdriver_manager.chrome import
ChromeDriverManager

from selenium.webdriver.common.by
import By


s=Service(ChromeDriverManager().install(
))

driver = webdriver.Chrome(service=s)

#driver.maximize_window()

#driver.get('https://www.google.com')


loginname = '7218820479'

password = 'Varunkarwa012'

#chrdriv = "D:
\\beminiprojects\\STQA\\selenium\\chromedriv
er.exe"
```

```
#driver = webdriver.Chrome(chrdriv)
```

```
driver.get('http://www.facebook.com')
```

```
driver.maximize_window()
```

```
print("Opened Facebook")
```

```
time.sleep(1)
```

```
emailid =
```

```
driver.find_element_by_id("email")
```

```
emailid.send_keys(loginname)
```

```
print("Email Id entered")
```

```
time.sleep(1)
```

```
passw = driver.find_element_by_id('pass')
```

```
passw.send_keys(password)
```

```
print("Password entered")
```

```
time.sleep(2)
```

```
nextButton =
```

```
driver.find_element_by_name('login')
```

```
nextButton.click()
```

```
print('Logged in successfully')
```

```
time.sleep(2)
```

```
print('Now Closing Window')
```

```
time.sleep(10)
```

```
driver.close()
```

```
print('Test carried out successfully!')
```

## **Conclusion :**

Performed automation testing on a self developed blogging site and verified that no bugs or defects were found.