A Project Report On

# Software Testing and Quality Assurance (Mini Project II)

SUBMITTED BY


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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 andgenerate test reports encompassing exploratory testing

# Problem Definition:

Perform Web testing and identify the bugs using Selenium WebDriver and IDEand 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:

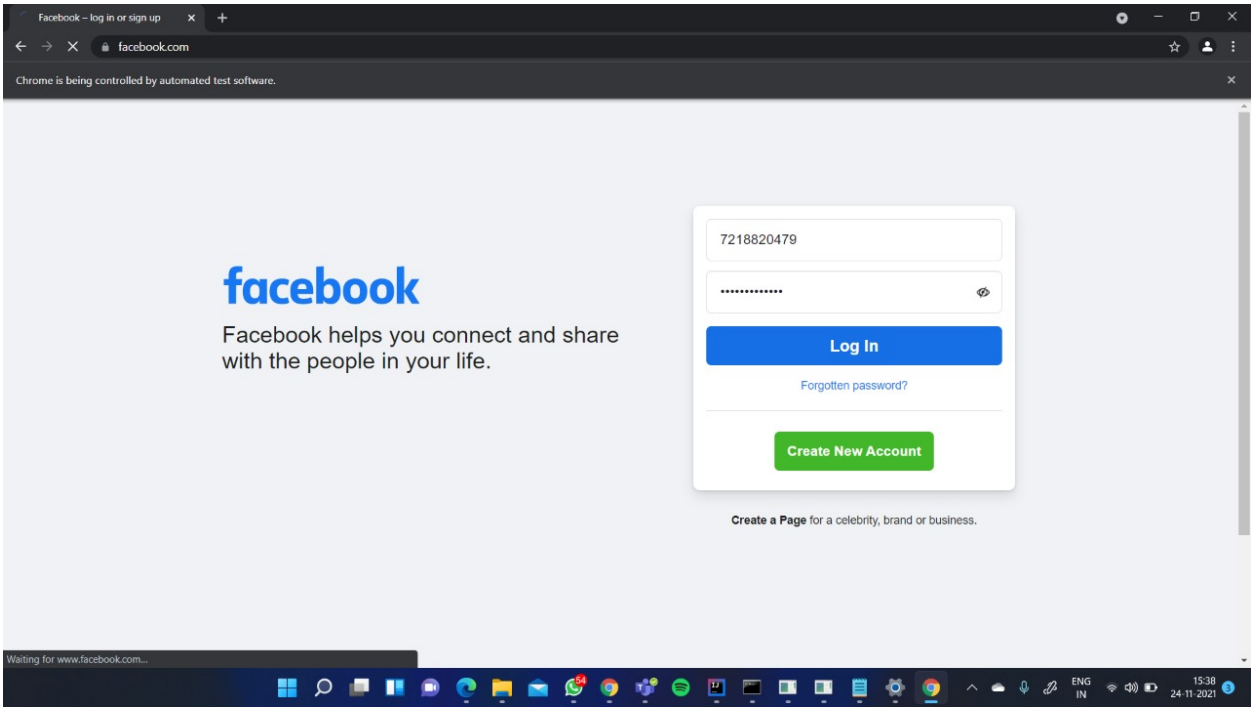
## Selenium:

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:

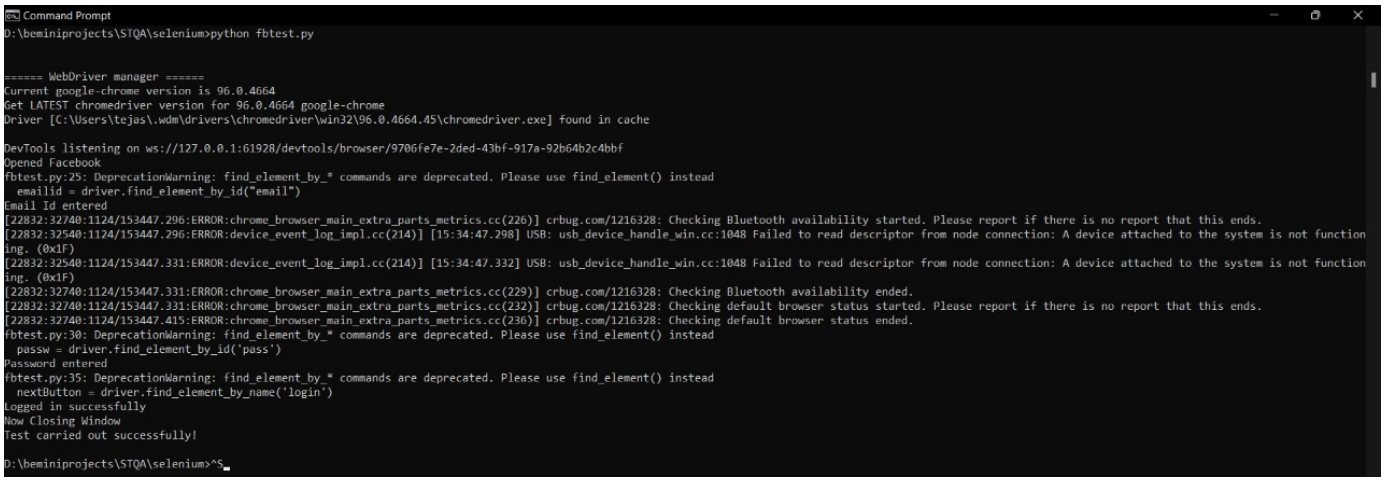
Selenium IDE (Integrated Development Environment) is primarily a record/run tool that a test case developer uses to develop Selenium Test cases. Selenium IDE is an easy to use tool from the Selenium Test Suite and can even be used by someone new to developing automated test cases for their web applications. 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 alsoprovides 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



**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.