Software Testing Lab

CS6474
Assignment-2

Shubham Laxman Hippargi

224CS3014
Master of Technology
224cs3014@nitrkl.ac.in

Department of Computer Science & Engineering
NIT, Rourkela

Selenium Assignment - 2

Shubham Laxman Hippargi
Master of Technology
224cs3014@nitrkl.ac.in

January 2025

Master of Technology
Department of Computer Science & Engineering
NIT, Rourkela

Contents

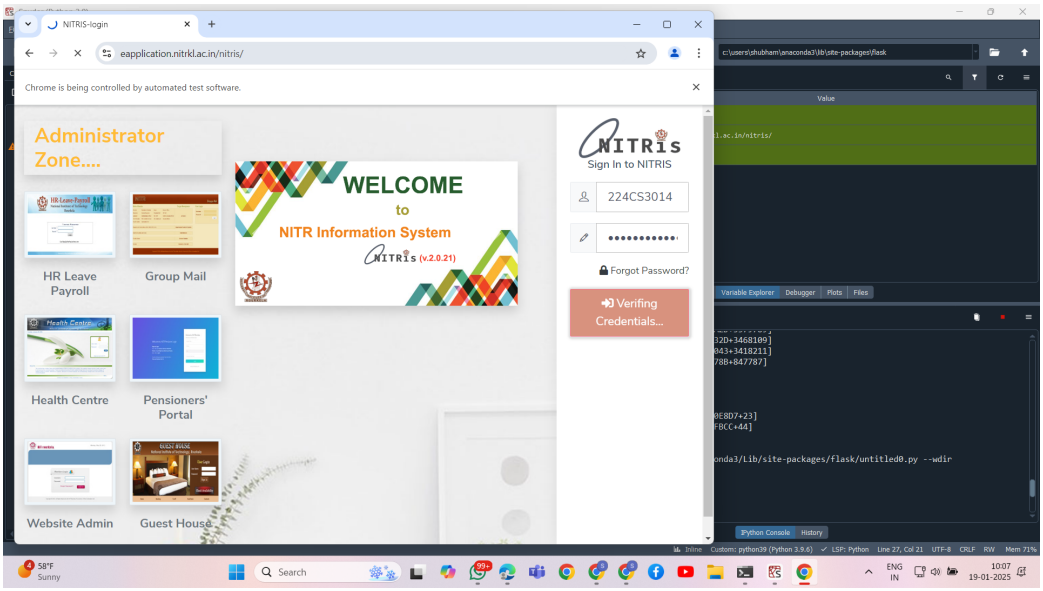

Figure 1: Screenshot related to Nitris

1 Test Case Website

1.1 NITRIS

1.1.1 LINK

https://eapplication.nitrkl.ac.in/nitris/

1.1.2 Screenshot

1.1.3 Code

Python Code: Below is the content of the Python test case file:

Listing 1: External Python Code File

```
from selenium import webdriver
from time import sleep;
from selenium.webdriver.common.by import By
from selenium.webdriver.common.keys import Keys

url="https://eapplication.nitrkl.ac.in/nitris/"
def getbrowser():
    options=webdriver.ChromeOptions()
    options.use_chromium=True;
    return webdriver.Chrome(options=options);
```

```
def login(username,password):
    try:
        browser=getbrowser()
        print("Browser completed");
        browser.get(url)
        sleep(5)
        userBox=browser.find_element(By.ID,"txtUserName"
            )
        userBox.send_keys(username)
        passwordBox=browser.find_element(By.ID,"
            txtPassword")
        passwordBox.send_keys(password)
        browser.find_element(By.ID,"btnLogin").click()
        sleep(5)
        try:
            close_button = browser.find_element(By.XPATH
                , "//button[@class= btn btn-default
                and @datadismiss= modal ]")
            close_button.click()
            print("Popup closed.")
            sleep(2)
        except Exception as e:
            print("No popup found or error closing popup
                :", e)
        browser.find_element(By.ID,"Academic").click()
        sleep(5)
        browser.find_element(By.LINK_TEXT,"Examination")
            .click()
        sleep(5)
        browser.find_element(By.LINK_TEXT,"Examination
            Results").click()
        sleep(5)
        browser.find_element(By.LINK_TEXT,"View Grade
            Card").click()
        sleep(20)
    except Exception as e:
        print(f"An error occured:{e}")
    finally:
        browser.quit()
username="224CS3014"
password="Shubham@1411"
login(username,password)
```

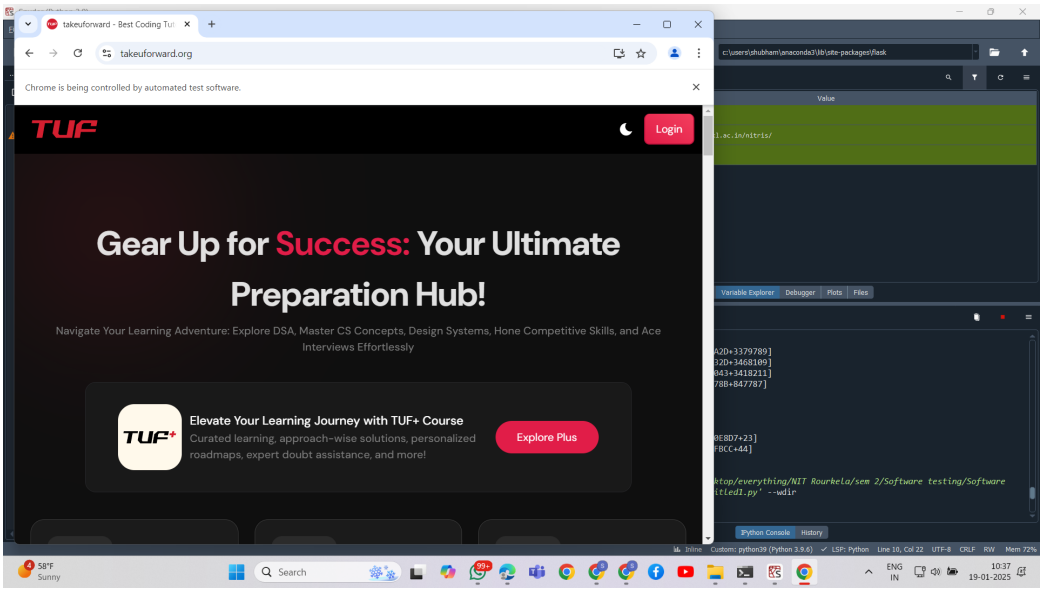

Figure 2: Screenshot related to Take U Forward

1.2 Take U forward

1.2.1 LINK

https://takeuforward.org/

1.2.2 Screenshot

1.2.3 Code

Python Code: Below is the content of the Python test case file:

Listing 2: External Python Code File

```
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.common.keys import Keys
from time import sleep
url = "https://takeuforward.org/"
def getBrowser():
    options = webdriver.ChromeOptions()
    options.use_chromium = True
    return webdriver.Chrome(options=options)
def clickTryItFree():
    try:

```

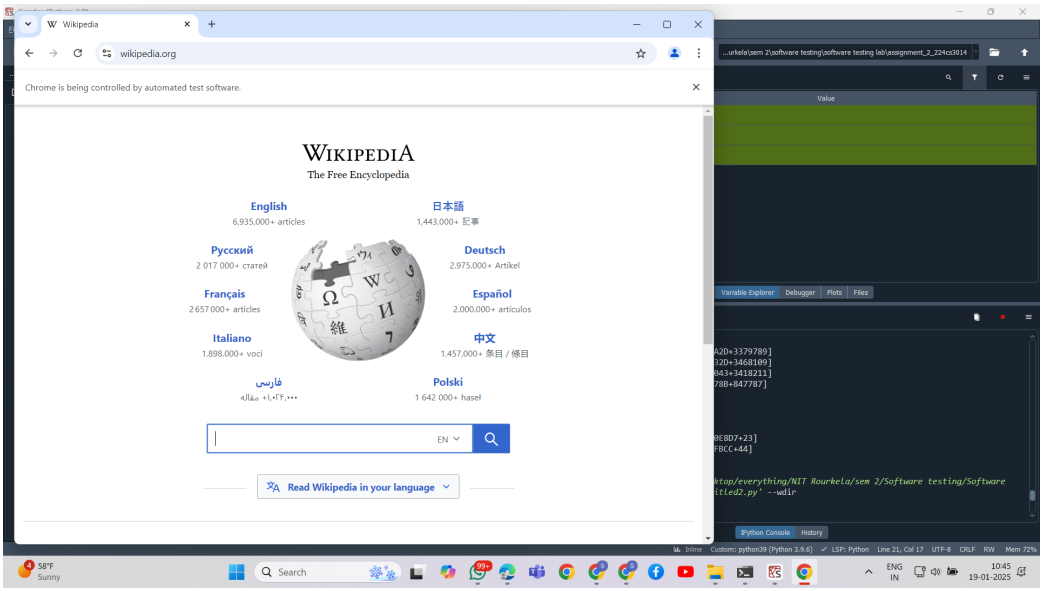

Figure 3: Screenshot related to Wikipedia

```
        browser = getBrowser()
        print("Browser initialized")
        browser.get(url)
        sleep(5)
        tryItFreeButton = browser.find_element(By.XPATH,
            "//*[text()= Try it free ]")
        tryItFreeButton.click()
        sleep(5)
        print("Clicked Try it free successfully")
    except Exception as e:
        print(f"Error occurred: {e}")
    finally:
        browser.quit()
clickTryItFree()
```

1.3 Wikipedia

1.3.1 LINK

https://www.wikipedia.org/

1.3.2 Screenshot

1.3.3 Code

Python Code: Below is the content of the Python test case file:

Listing 3: External Python Code File

```
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.common.keys import Keys
from time import sleep
url = "https://www.wikipedia.org/"
def getBrowser():
    options = webdriver.ChromeOptions()
    options.use_chromium = True
    return webdriver.Chrome(options=options)
def search():
    try:
        browser = getBrowser()
        print("Browser initialized")
        browser.get(url)
        sleep(3) # Wait for the page to load
        searchbox = browser.find_element(By.ID, "
           searchInput")
        searchbox.click()
        query = "Computer Engineering";
        searchbox.send_keys(query)
        searchbox.send_keys(Keys.RETURN)
        sleep(5)
        print("Browser Completed.")
    except Exception as e:
        print(f"Error occurred: {e}")
    finally:
        browser.quit()
search()
```

1.4 W3Schools

1.4.1 LINK

https://www.w3schools.com/

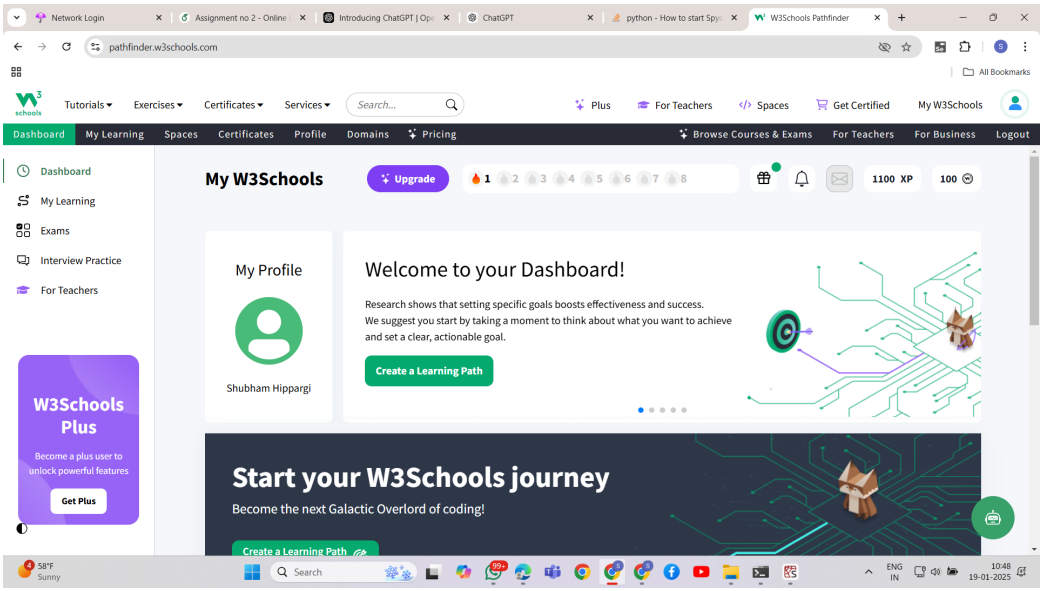

Figure 4: Screenshot related to W3*school*

1.4.2 Screenshot

1.4.3 Code

Python Code: Below is the content of the Python test case file:

Listing 4: External Python Code File

```
from selenium import webdriver
from time import sleep
from selenium.webdriver.common.by import By
url = "https://profile.w3schools.com/login?redirect_url=
    https %3A%2F%2Fwww.w3schools.com%2F"
def getBrowser():
    options = webdriver.ChromeOptions()
    options.use_chromium = True
    return webdriver.Chrome(options=options)
def login(username, password):
    try:
        browser = getBrowser()
        print("Browser opened")
        browser.get(url)
        sleep(2)
        # Input username and password
        username_input = browser.find_element(By.NAME, "
            email")
```

```
        password_input = browser.find_element(By.NAME, "
            password")
        username_input.send_keys(username)
        password_input.send_keys(password)
        # Click the login button
        login_button = browser.find_element(By.XPATH, "
            //button[@type=    submit    ]")
        login_button.click()
        sleep(5)
        print("Browser Completed.")
    except Exception as e:
        print(f"Error Occurred: {e}")
    finally:
        browser.quit()
        username = ""
        password = ""
        # Perform login
login(username, password)
```

1.5 Apna College

1.5.1 LINK

https://www.apnacollege.in/

1.5.2 Screenshot

1.5.3 Code

Python Code: Below is the content of the Python test case file:

Listing 5: External Python Code File

```
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.common.keys import Keys
from time import sleep

url = "https://www.apnacollege.in/"  # Replace with the
    actual website URL

def getBrowser():
    options = webdriver.ChromeOptions()
    options.use_chromium = True
```

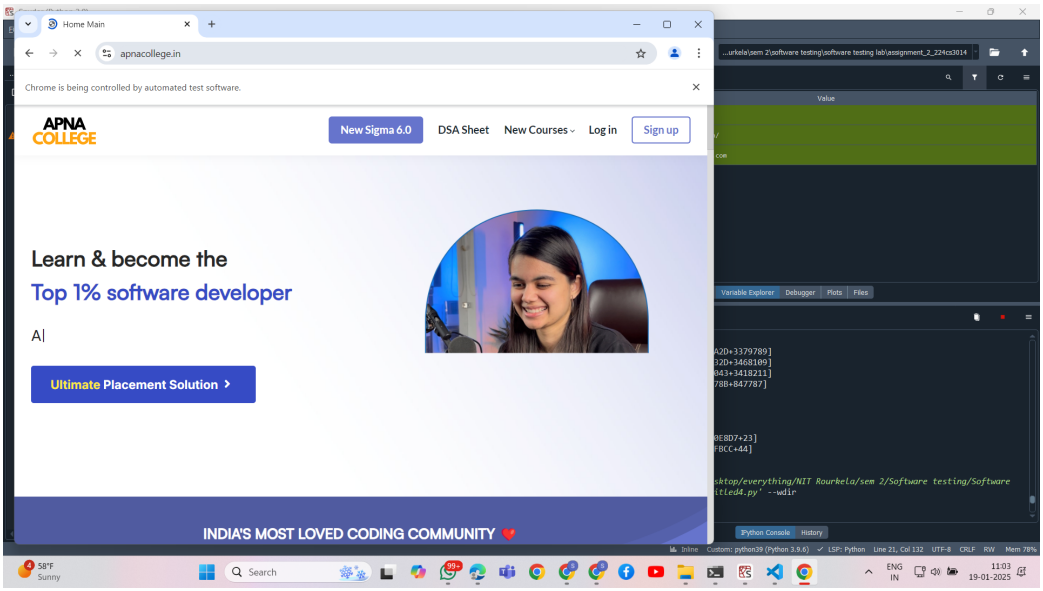

Figure 5: Screenshot related to Apna college

```
    return webdriver.Chrome(options=options)

def login(username, password):
    try:
        browser = getBrowser()
        print("Browser opened")
        browser.get(url)
        sleep(2)

        # Click the login button to open the login form
        login_button = browser.find_element(By.
            CLASS_NAME, "learnworlds-main-text-large
            mobile-nav-menu-link lw-link-text text-only")
        login_button.click()
        sleep(2)  # Wait for the login modal/page to
            load

        # Input username and password
        username_input = browser.find_element(By.NAME, "
            email")
        password_input = browser.find_element(By.NAME, "
            password")
        username_input.send_keys(username)
        password_input.send_keys(password)
```

```
30
31          # Click the login button
32          submit_button = browser.find_element(By.ID, "
                submitLogin")
33          submit_button.click()
34          sleep(5)
35
36          print("Login Successful.")
37
38      except Exception as e:
39          print(f"Error Occurred: {e}")
40
41      finally:
42          browser.quit()
43
44  # Provide your credentials here
45  username = "shubhamhiit@gmail.com"
46  password = "Sh"
47
48  # Perform login
49  login(username, password)
```

1.6 GFG

1.6.1 LINK

https://www.geeksforgeeks.org/

1.6.2 Screenshot

1.6.3 Code

Python Code: Below is the content of the Python test case file:

Listing 6: External Python Code File

```
1  from selenium import webdriver
2  from selenium.webdriver.common.by import By
3  from selenium.webdriver.common.keys import Keys
4  from time import sleep
5  url = "https://www.geeksforgeeks.org/"
6  def getBrowser():
7      options = webdriver.ChromeOptions()
8      options.use_chromium = True
```

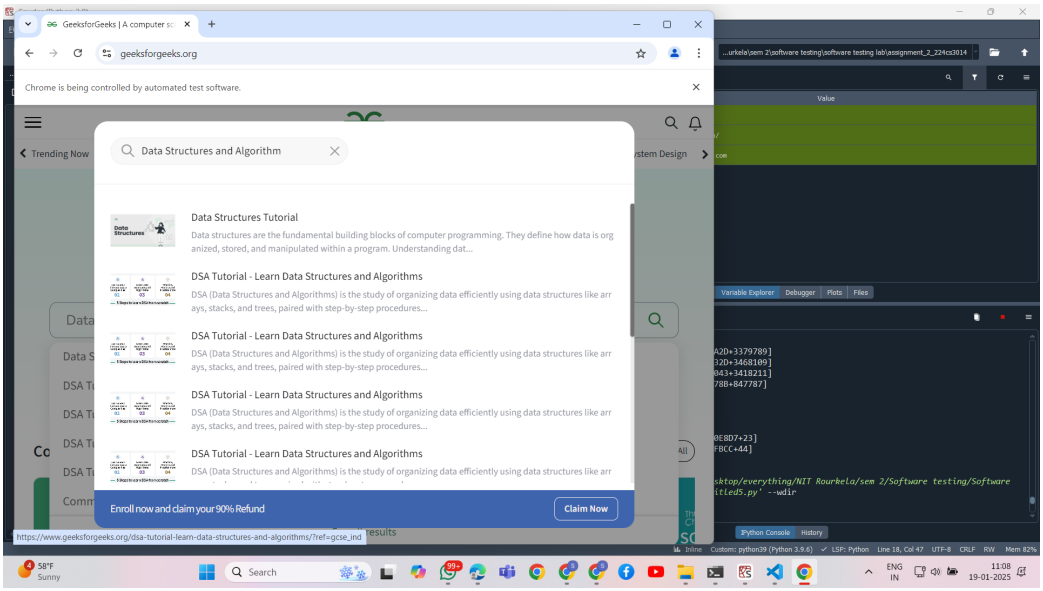

Figure 6: Screenshot related to GFG

```
    return webdriver.Chrome(options=options)
def search():
    try:
        browser = getBrowser()
        print("Browser initialized")
        browser.get(url)
        sleep(3) # Wait for the page to load
        searchbox = browser.find_element(By.CLASS_NAME,
            "
            HomePageSearchContainer_homePageSearchContainer_container_inp
            ")
        searchbox.click()
        query = "Data Structures and Algorithm";
        searchbox.send_keys(query)
        searchbox.send_keys(Keys.RETURN)
        sleep(5)
        print("Browser Completed.")
    except Exception as e:
        print(f"Error occurred: {e}")
    finally:
        browser.quit()
search()
```

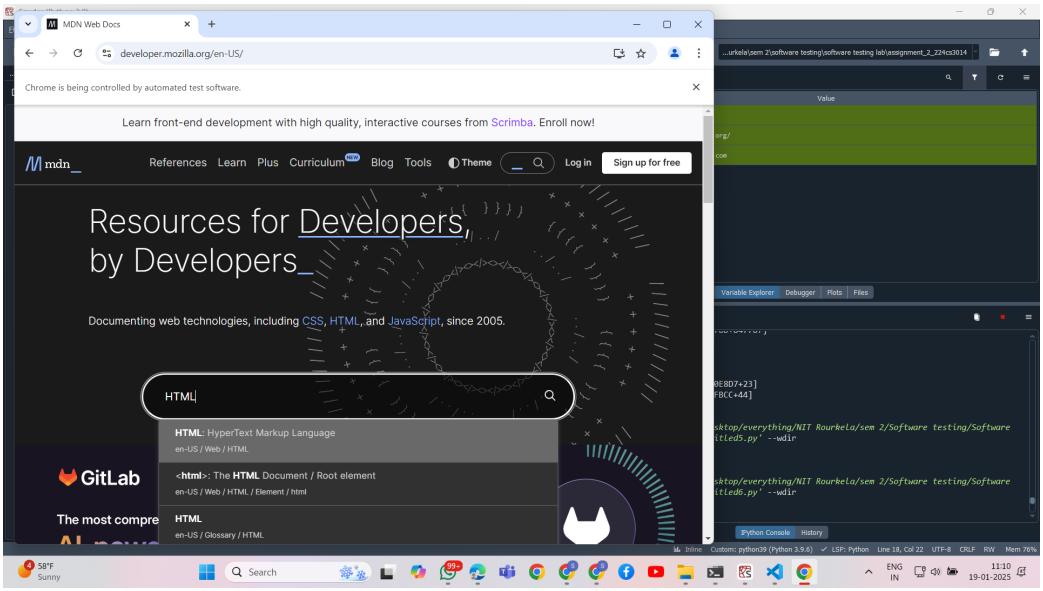

Figure 7: Screenshot related to MDN

1.7 MDN

1.7.1 LINK

https://developer.mozilla.org/en-US/

1.7.2 Screenshot

1.7.3 Code

Python Code: Below is the content of the Python test case file:

Listing 7: External Python Code File

```
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.common.keys import Keys
from time import sleep
url = "https://developer.mozilla.org/en-US/"
def getBrowser():
    options = webdriver.ChromeOptions()
    options.use_chromium = True
    return webdriver.Chrome(options=options)
def search():
    try:
        browser = getBrowser()
```

```
        print("Browser initialized")
        browser.get(url)
        sleep(3) # Wait for the page to load
        searchbox = browser.find_element(By.ID, "hp-
            search-input")
        searchbox.click()
        query = "HTML";
        searchbox.send_keys(query)
        searchbox.send_keys(Keys.RETURN)
        sleep(5)
        print("Browser Completed.")
    except Exception as e:
        print(f"Error occurred: {e}")
    finally:
        browser.quit()
search()
```

1.8 Rajib Mall

1.8.1 LINK

https://snu.edu.in/faculty/rajib-mall/

1.8.2 Screenshot

1.8.3 Code

Python Code: Below is the content of the Python test case file:

Listing 8: External Python Code File

```
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.common.keys import Keys
from time import sleep
url = "https://snu.edu.in/faculty/rajib-mall/"
def getBrowser():
    options = webdriver.ChromeOptions()
    options.use_chromium = True
    return webdriver.Chrome(options=options)
def search():
    try:
        browser = getBrowser()
        print("Browser initialized")
```

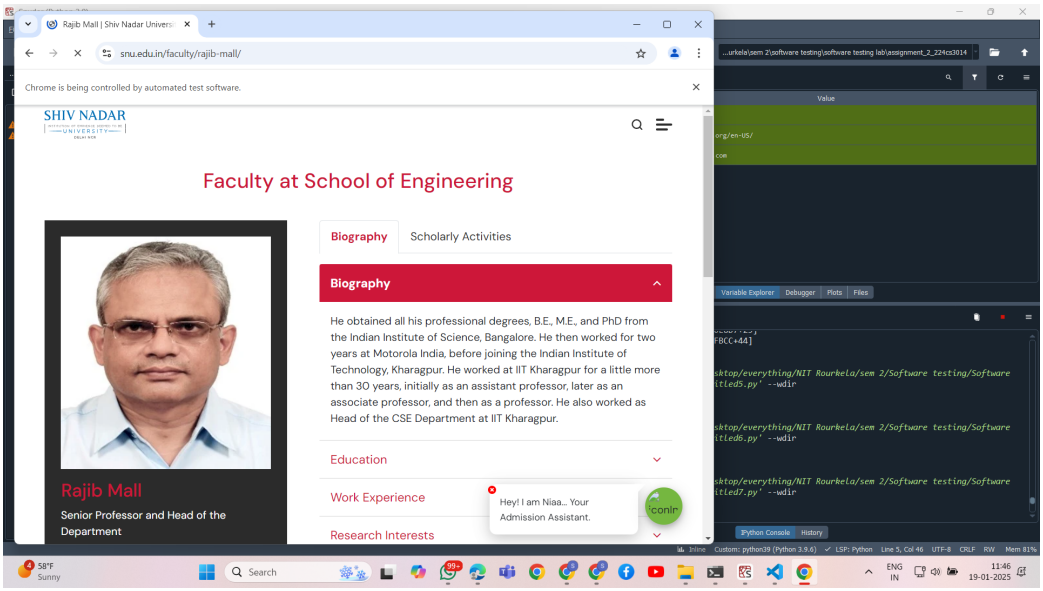

Figure 8: Screenshot related to Rajib Mall

```
        browser.get(url)
        sleep(3) # Wait for the page to load
        print("Browser Completed.")
    except Exception as e:
        print(f"Error occurred: {e}")
    finally:
        browser.quit()
search()
```

1.9 PMPML

1.9.1 LINK

https://pmpml.org/

1.9.2 Screenshot

1.9.3 Code

Python Code: Below is the content of the Python test case file:

Listing 9: External Python Code File

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

Figure 9: Screenshot related to PMPML

```
from selenium.webdriver.common.keys import Keys
from time import sleep
url = "https://pmpml.org/"
def getBrowser():
    options = webdriver.ChromeOptions()
    options.use_chromium = True
    return webdriver.Chrome(options=options)
def search():
    try:
        browser = getBrowser()
        print("Browser initialized")
        browser.get(url)
        sleep(3) # Wait for the page to load
        searchbox = browser.find_element(By.NAME, "lang"
            )
        searchbox.click()


        sleep(5)
        print("Browser Completed.")
    except Exception as e:
        print(f"Error occurred: {e}")
    finally:
        browser.quit()
```

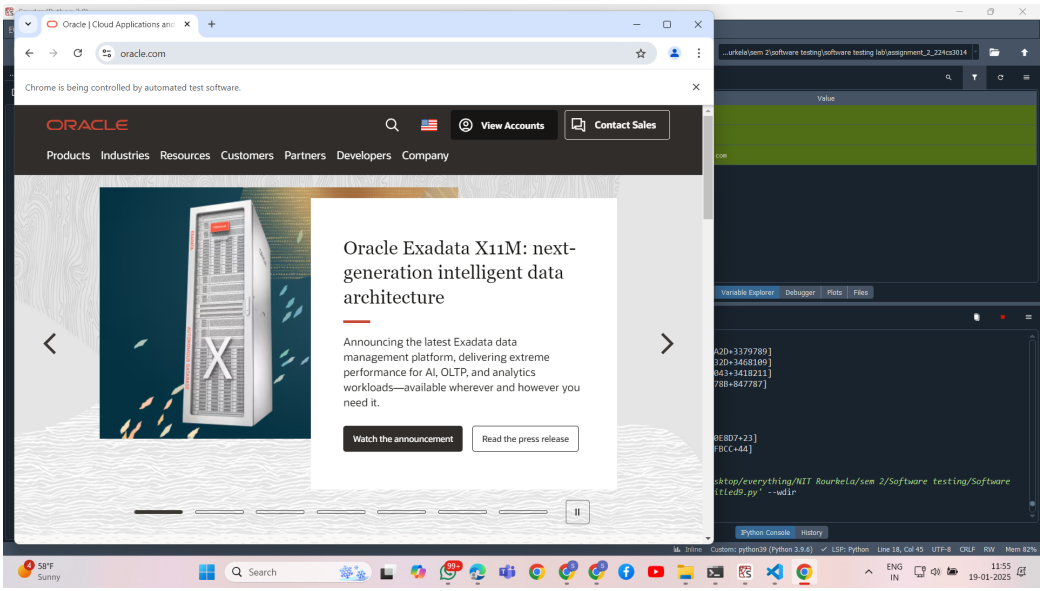

Figure 10: Screenshot related to Oracle

```
26 search()
```

1.10 Oracle

1.10.1 LINK

https://pmpml.org/

1.10.2 Screenshot

1.10.3 Code

Python Code: Below is the content of the Python test case file:

Listing 10: External Python Code File

```
1 from selenium import webdriver
2 from selenium.webdriver.common.by import By
3 from selenium.webdriver.common.keys import Keys
4 from time import sleep
5 url = "https://www.oracle.com/"
6 def getBrowser():
7     options = webdriver.ChromeOptions()
8     options.use_chromium = True
9     return webdriver.Chrome(options=options)
```

```
def search():
    try:
        browser = getBrowser()
        print("Browser initialized")
        browser.get(url)
        sleep(3) # Wait for the page to load
        searchbox = browser.find_element(By.ID, "u30")
        searchbox.click()
        query = "oracle cloud infrastructure";
        searchbox.send_keys(query)
        searchbox.send_keys(Keys.RETURN)
        sleep(5)
        print("Browser Completed.")
    except Exception as e:
        print(f"Error occurred: {e}")
    finally:
        browser.quit()
search()
```