



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

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Master of Technology

Department of Computer Science & Engineering

NIT, Rourkela

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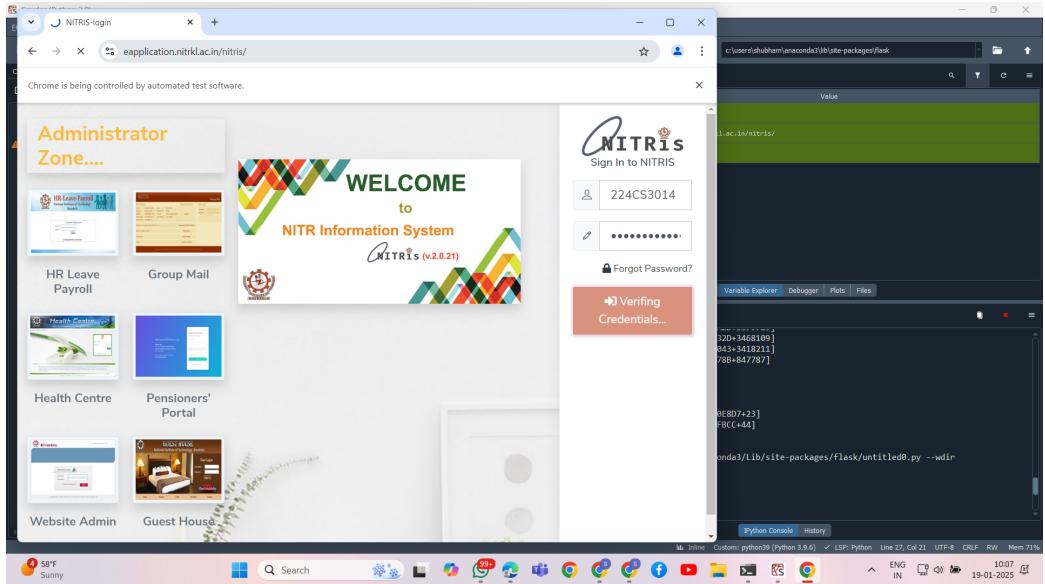


Figure 1: Screenshot related to Nitrис

1 Test Case Website

1.1 NITRIS

1.1.1 LINK

<https://eapplication.nitrl.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

```

1  from selenium import webdriver
2  from time import sleep;
3  from selenium.webdriver.common.by import By
4  from selenium.webdriver.common.keys import Keys
5
6  url="https://eapplication.nitrl.ac.in/nitris/"
7  def getbrowser():
8      options=webdriver.ChromeOptions()
9      options.use_chromium=True;
10     return webdriver.Chrome(options=options);

```

```

11 def login(username ,password):
12     try:
13         browser=getbrowser()
14         print("Browser completed");
15         browser.get(url)
16         sleep(5)
17         userBox=browser.find_element(By.ID , "txtUserName"
18             )
18         userBox.send_keys(username)
19         passwordBox=browser.find_element(By.ID , "
20             txtPassword")
20         passwordBox.send_keys(password)
21         browser.find_element(By.ID , "btnLogin").click()
22         sleep(5)
23         try:
24             close_button = browser.find_element(By.XPATH
25                 , "//button[@class= btn btn-default
26                     and @dataDismiss= modal ]")
26             close_button.click()
27             print("Popup closed.")
27             sleep(2)
28         except Exception as e:
29             print("No popup found or error closing popup
29                 :", e)
30         browser.find_element(By.ID , "Academic").click()
31         sleep(5)
32         browser.find_element(By.LINK_TEXT , "Examination")
32             .click()
33         sleep(5)
34         browser.find_element(By.LINK_TEXT , "Examination
34             Results").click()
35         sleep(5)
36         browser.find_element(By.LINK_TEXT , "View Grade
36             Card").click()
37         sleep(20)
38     except Exception as e:
39         print(f"An error occurred:{e}")
40     finally:
41         browser.quit()
42 username="224CS3014"
43 password="Shubham@1411"
44 login(username ,password)

```

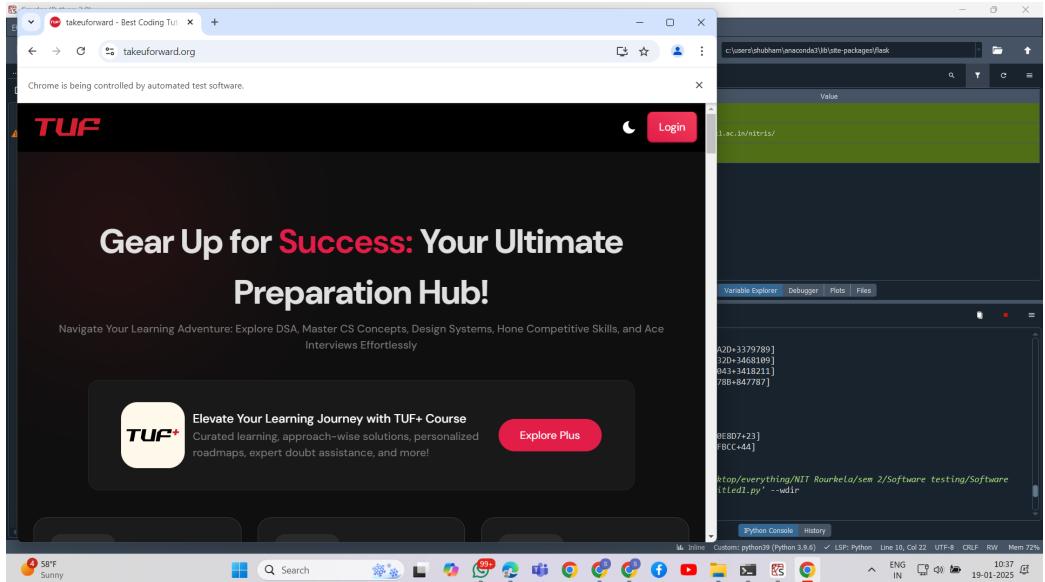


Figure 2: Screenshot related to Take U Forward

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

```

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://takeuforward.org/"
6 def getBrowser():
7     options = webdriver.ChromeOptions()
8     options.use_chromium = True
9     return webdriver.Chrome(options=options)
10 def clickTryItFree():
11     try:
12

```

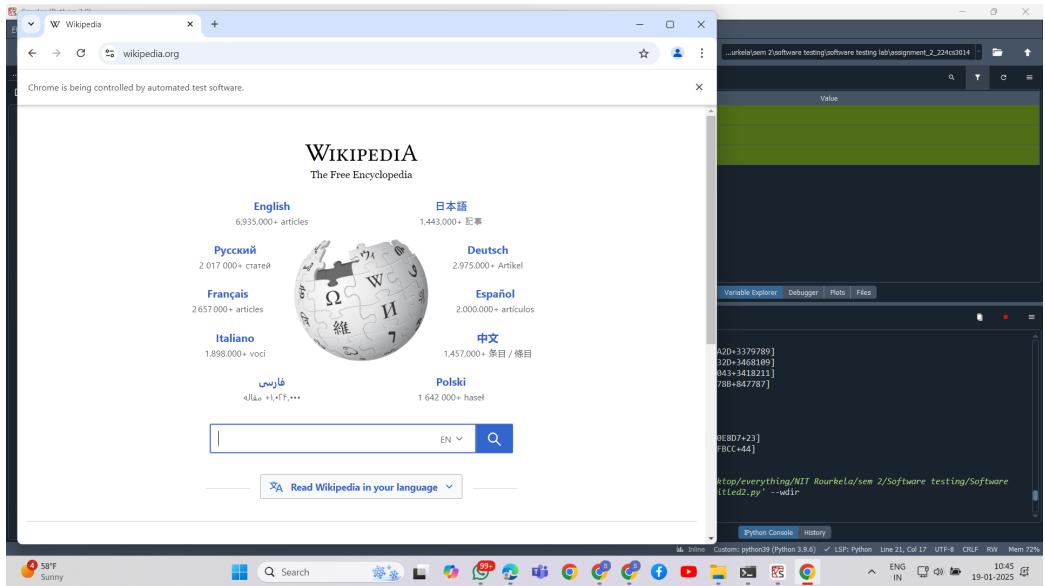


Figure 3: Screenshot related to Wikipedia

```

13     browser = getBrowser()
14     print("Browser initialized")
15     browser.get(url)
16     sleep(5)
17     tryItFreeButton = browser.find_element(By.XPATH,
18         "//*[text()=' Try it free ']")
19     tryItFreeButton.click()
20     sleep(5)
21     print("Clicked Try it free successfully")
22 except Exception as e:
23     print(f"Error occurred: {e}")
24 finally:
25     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

```
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.wikipedia.org/"
6 def getBrowser():
7     options = webdriver.ChromeOptions()
8     options.use_chromium = True
9     return webdriver.Chrome(options=options)
10 def search():
11     try:
12         browser = getBrowser()
13         print("Browser initialized")
14         browser.get(url)
15         sleep(3) # Wait for the page to load
16         searchbox = browser.find_element(By.ID, "searchInput")
17         searchbox.click()
18         query = "Computer Engineering";
19         searchbox.send_keys(query)
20         searchbox.send_keys(Keys.RETURN)
21         sleep(5)
22         print("Browser Completed.")
23     except Exception as e:
24         print(f"Error occurred: {e}")
25     finally:
26         browser.quit()
27 search()
```

1.4 W3Schools

1.4.1 LINK

<https://www.w3schools.com/>

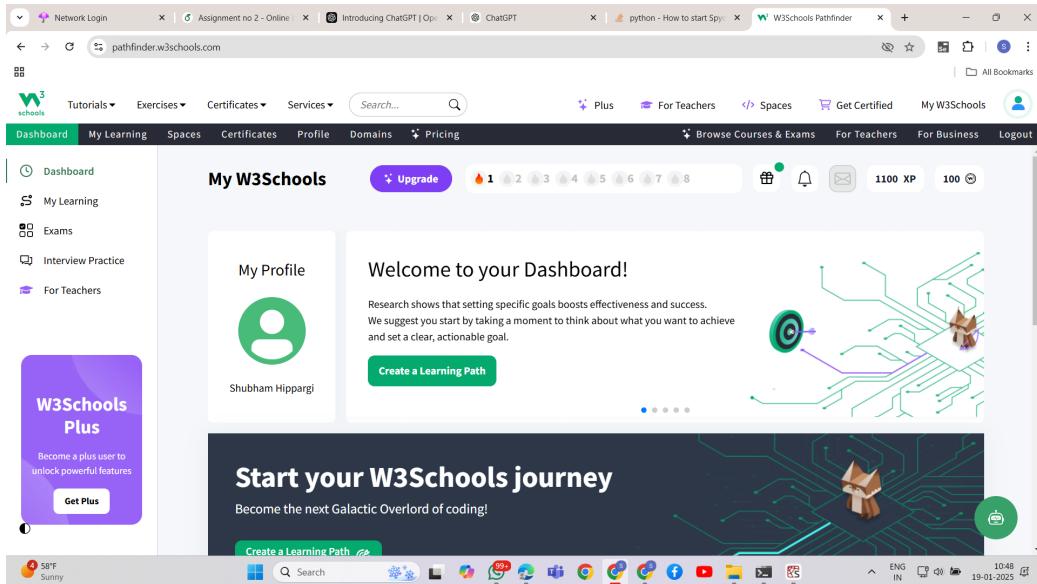


Figure 4: Screenshot related to W3Schools

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

```

1 from selenium import webdriver
2 from time import sleep
3 from selenium.webdriver.common.by import By
4 url = "https://profile.w3schools.com/login?redirect_url=
      https%3A%2F%2Fwww.w3schools.com%2F"
5 def getBrowser():
6     options = webdriver.ChromeOptions()
7     options.use_chromium = True
8     return webdriver.Chrome(options=options)
9 def login(username, password):
10    try:
11        browser = getBrowser()
12        print("Browser opened")
13        browser.get(url)
14        sleep(2)
15        # Input username and password
16        username_input = browser.find_element(By.NAME, "email")

```

```

17     password_input = browser.find_element(By.NAME, "password")
18     username_input.send_keys(username)
19     password_input.send_keys(password)
20     # Click the login button
21     login_button = browser.find_element(By.XPATH, "//button[@type='submit']")
22     login_button.click()
23     sleep(5)
24     print("Browser Completed.")
25 except Exception as e:
26     print(f"Error Occurred: {e}")
27 finally:
28     browser.quit()
29     username = ""
30     password = ""
31     # Perform login
32 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

```

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
6 url = "https://www.apnacollege.in/" # Replace with the
7     actual website URL
8
9 def getBrowser():
10     options = webdriver.ChromeOptions()
11     options.use_chromium = True

```

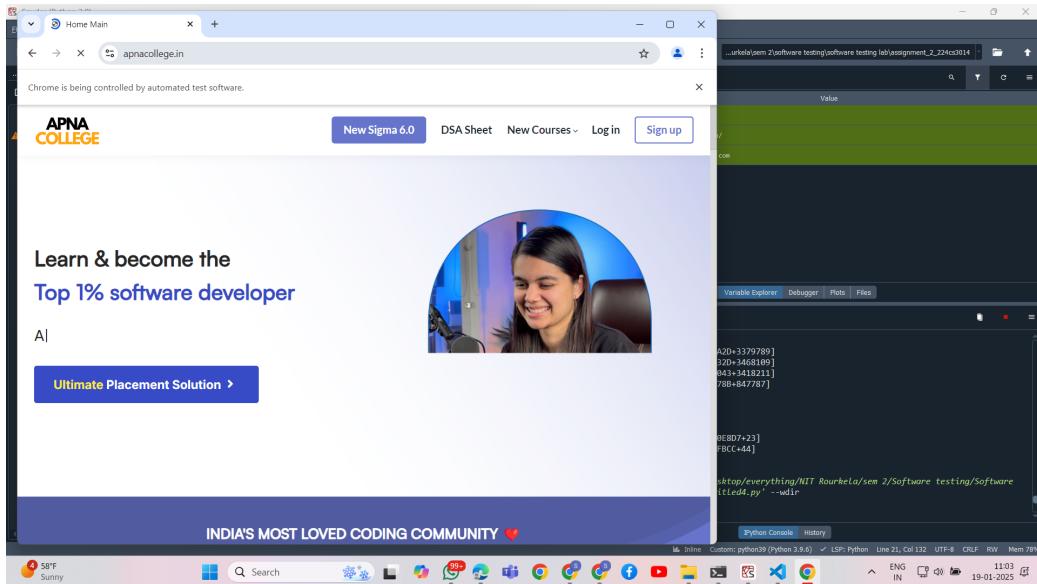


Figure 5: Screenshot related to Apna college

```

11     return webdriver.Chrome(options=options)
12
13 def login(username , password):
14     try:
15         browser = getBrowser()
16         print("Browser opened")
17         browser.get(url)
18         sleep(2)
19
20         # Click the login button to open the login form
21         login_button = browser.find_element(By.
22             CLASS_NAME , "learnworlds-main-text-large
23             mobile-nav-menu-link lw-link-text text-only")
24         login_button.click()
25         sleep(2) # Wait for the login modal/page to
26             load
27
28         # Input username and password
29         username_input = browser.find_element(By.NAME ,
30             "email")
31         password_input = browser.find_element(By.NAME ,
32             "password")
33         username_input.send_keys(username)
34         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

```

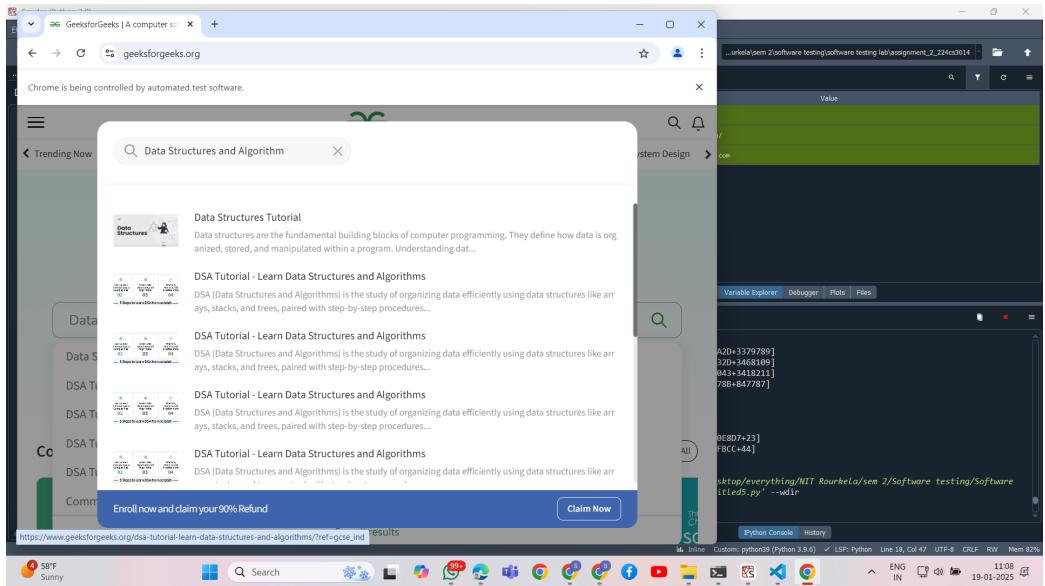


Figure 6: Screenshot related to GFG

```

9      return webdriver.Chrome(options=options)
10 def search():
11     try:
12         browser = getBrowser()
13         print("Browser initialized")
14         browser.get(url)
15         sleep(3) # Wait for the page to load
16         searchbox = browser.find_element(By.CLASS_NAME,
17             "HomePageSearchContainer_homePageSearchContainer_container_inp")
18         searchbox.click()
19         query = "Data Structures and Algorithm";
20         searchbox.send_keys(query)
21         searchbox.send_keys(Keys.RETURN)
22         sleep(5)
23         print("Browser Completed.")
24     except Exception as e:
25         print(f"Error occurred: {e}")
26     finally:
27         browser.quit()
search()

```

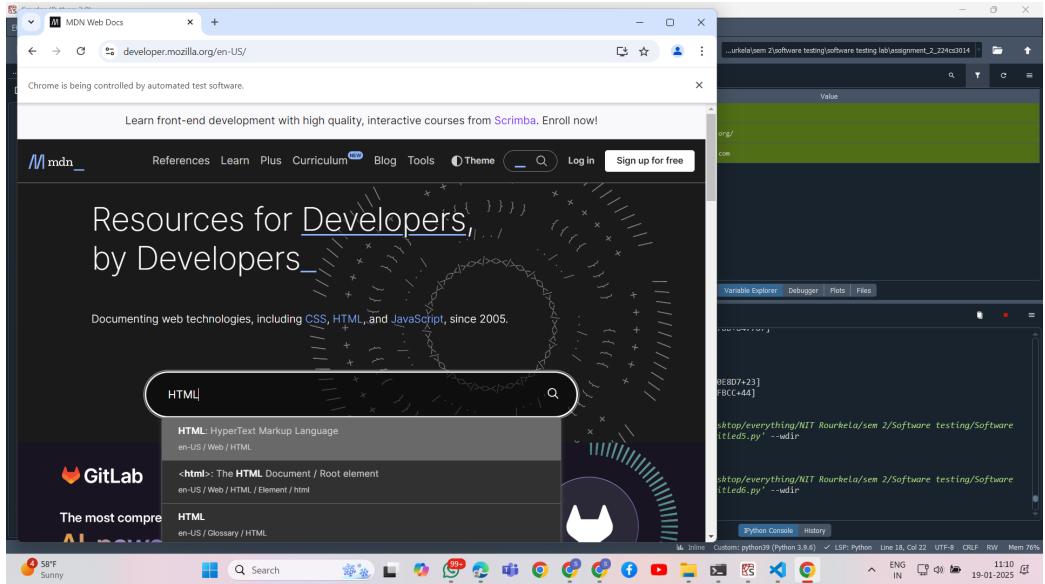


Figure 7: Screenshot related to MDN

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

```

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://developer.mozilla.org/en-US/"
6 def getBrowser():
7     options = webdriver.ChromeOptions()
8     options.use_chromium = True
9     return webdriver.Chrome(options=options)
10 def search():
11     try:
12         browser = getBrowser()

```

```

13     print("Browser initialized")
14     browser.get(url)
15     sleep(3) # Wait for the page to load
16     searchbox = browser.find_element(By.ID, "hp-
17         search-input")
18     searchbox.click()
19     query = "HTML";
20     searchbox.send_keys(query)
21     searchbox.send_keys(Keys.RETURN)
22     sleep(5)
23     print("Browser Completed.")
24 except Exception as e:
25     print(f"Error occurred: {e}")
26 finally:
27     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

```

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://snu.edu.in/faculty/rajib-mall/"
6 def getBrowser():
7     options = webdriver.ChromeOptions()
8     options.use_chromium = True
9     return webdriver.Chrome(options=options)
10 def search():
11     try:
12         browser = getBrowser()
13         print("Browser initialized")

```

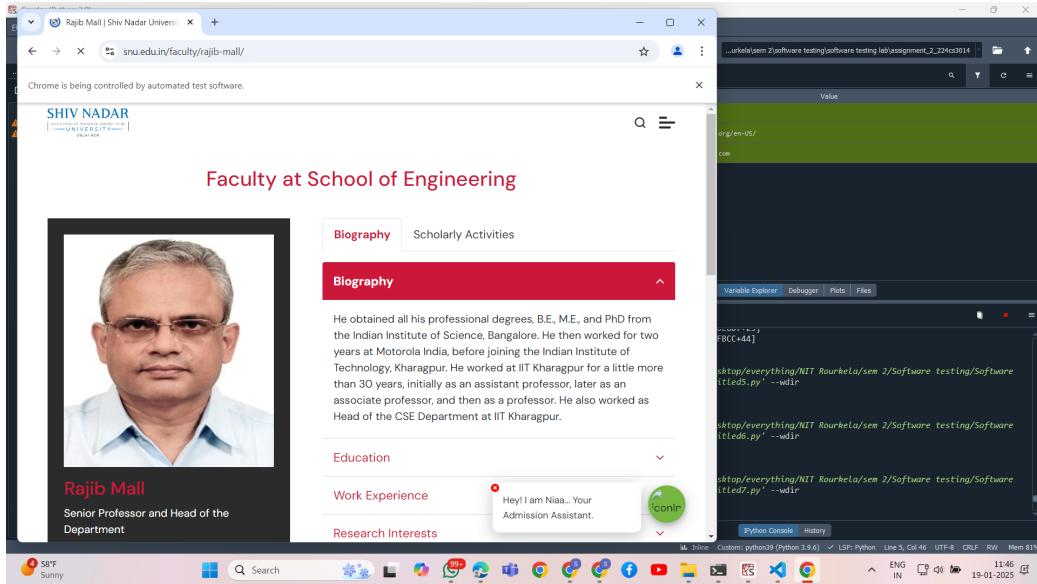


Figure 8: Screenshot related to Rajib Mall

```

14     browser.get(url)
15     sleep(3) # Wait for the page to load
16     print("Browser Completed.")
17 except Exception as e:
18     print(f"Error occurred: {e}")
19 finally:
20     browser.quit()
21 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

```

1 from selenium import webdriver
2 from selenium.webdriver.common.by import By

```

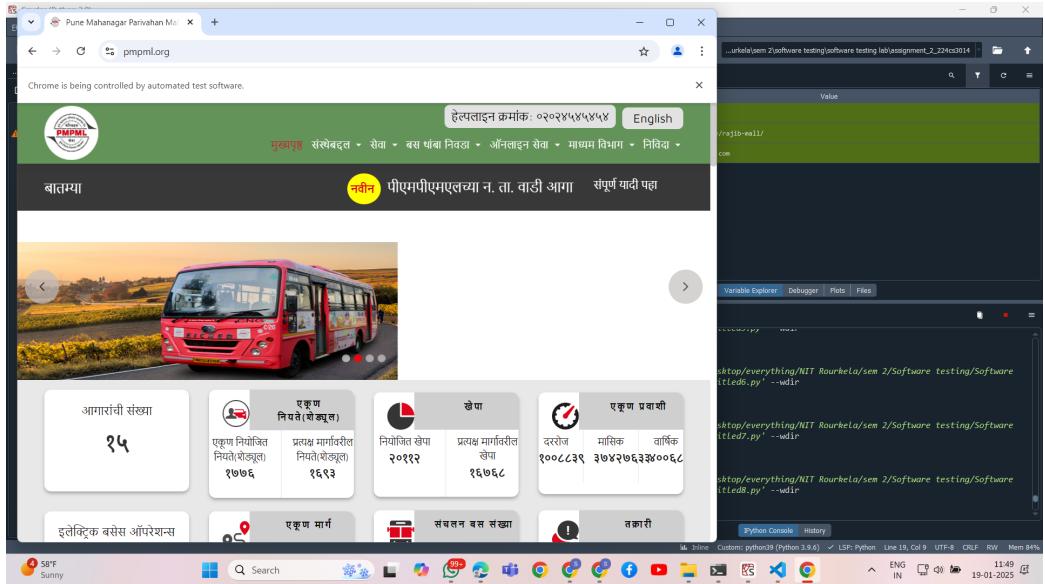


Figure 9: Screenshot related to PMPML

```

3  from selenium.webdriver.common.keys import Keys
4  from time import sleep
5  url = "https://pmpml.org/"
6  def getBrowser():
7      options = webdriver.ChromeOptions()
8      options.use_chromium = True
9      return webdriver.Chrome(options=options)
10 def search():
11     try:
12         browser = getBrowser()
13         print("Browser initialized")
14         browser.get(url)
15         sleep(3) # Wait for the page to load
16         searchbox = browser.find_element(By.NAME, "lang")
17         )
18         searchbox.click()
19
20         sleep(5)
21         print("Browser Completed.")
22     except Exception as e:
23         print(f"Error occurred: {e}")
24     finally:
25         browser.quit()

```

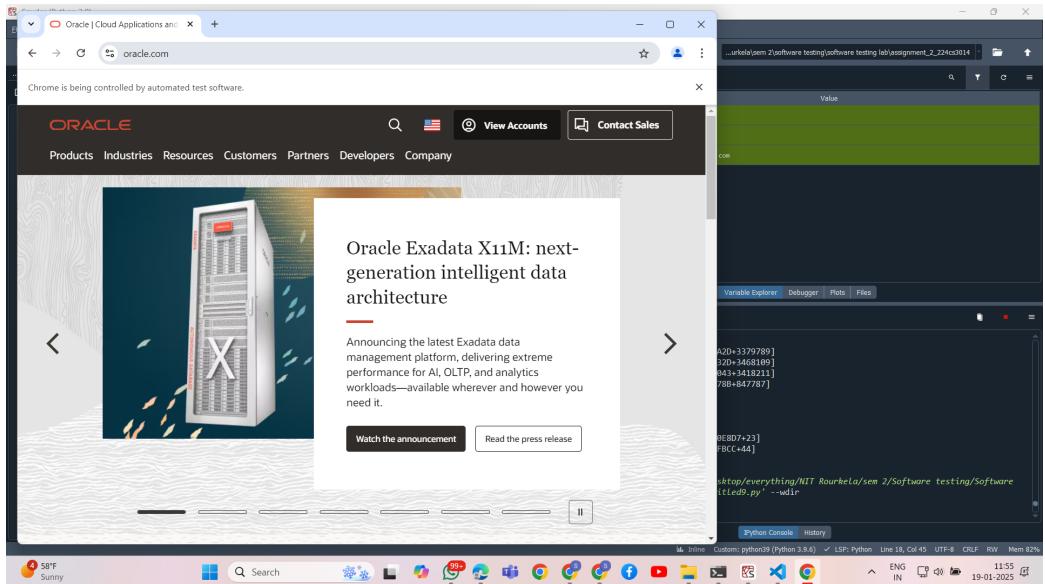


Figure 10: Screenshot related to Oracle

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)

```

```
10 | def search():
11 |     try:
12 |         browser = getBrowser()
13 |         print("Browser initialized")
14 |         browser.get(url)
15 |         sleep(3) # Wait for the page to load
16 |         searchbox = browser.find_element(By.ID, "u30")
17 |         searchbox.click()
18 |         query = "oracle cloud infrastructure";
19 |         searchbox.send_keys(query)
20 |         searchbox.send_keys(Keys.RETURN)
21 |         sleep(5)
22 |         print("Browser Completed.")
23 |     except Exception as e:
24 |         print(f"Error occurred: {e}")
25 |     finally:
26 |         browser.quit()
27 | search()
```