

PROFESSIONAL TRAINING REPORT

At

**SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
(Deemed to be University)**

Submitted in partial fulfillment of the requirements for the
award of Bachelor of Technology Degree in
Information Technology

By

Boomesh M

(Reg. No.39120016)



**DEPARTMENT OF INFORMATION TECHNOLOGY
SCHOOL OF COMPUTING
SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
JEPPIAAR NAGAR, RAJIV GANDHI SALAI,
CHENNAI - 600 119**

APRIL 2022



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

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SCHOOL OF COMPUTING

BONAFIDE CERTIFICATE

This is to certify that this Project Report is the bonafide work of **Boomesh M (Reg No. 39120016)** and who carried out the project entitled "**VALIDATION OF DATA CONTENTS IN THE SOCIAL NETWORK USING SELENIUM TOOL AND TRACKING THE DEFECTS IN JIRA**" under our supervision from February 2022 to April 2022.

INTERNAL GUIDE

Dr. S. GOWRI M.E., Ph.D.,

HEAD OF THE DEPARTMENT

Dr. R. SUBHASHINI M.E., Ph.D.,

Submitted for Viva voce Examination held on _____

Internal Examiner

External Examiner

DECLARATION

I **Boomesh M (Reg No:39120016)** hereby declare that the Project Report entitled **“VALIDATION OF DATA CONTENTS IN THE SOCIAL NETWORK USING SELENIUM TOOL AND TRACKING THE DEFECTS IN JIRA”** done by me under the guidance of **Dr. S. GOWRI M.E., Ph.D.**, is submitted in partial fulfillment of the requirements for the award of Bachelor of Technology degree in Information Technology.

DATE:

PLACE: CHENNAI

SIGNATURE OF THE CANDIDATE

ACKNOWLEDGEMENT

I am pleased to acknowledge our sincere thanks to Board of management of **SATHYABAMA** for their kind encouragement in doing this project and for completing it successfully. I am grateful to them.

I convey our thanks to **Dr. T. SASIKALA M.E., Ph.D.**, Dean, School of Computing and **Dr. R. SUBHASHINI M.E., Ph.D.**, Head of the Department, Department of Information Technology for providing us the necessary support and details at the right time during the progressive reviews.

I would like to express our sincere and deep sense of gratitude to our Project Guide **Dr. S. GOWRI M.E., Ph.D.**, for her valuable guidance, suggestions and constant encouragement paved way for the successful completion of my project work.

I wish to express our thanks to all Teaching and Non-teaching staff members of the Department of **INFORMATION TECHNOLOGY** who were helpful in many ways for the completion of the project.

TRAINING CERTIFICATE



No: JS02SATC001

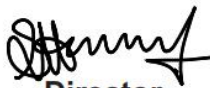
JS Software Testing Solution Centre

CERTIFICATE OF COMPLETION

This certificate is presented to

M. BOOMESH

in recognition of his/her hard work and dedication in completing the
Automation Selenium Testing Course from February 2022 to April 2022.


Director


Trainer

ABSTRACT

Over the last years software development life-cycles have continuously been shortened and new releases are being deployed at a more and more frequent level. In order to ensure the quality of those releases, a strong shift towards automated testing at all testing levels has become noticeable throughout the software development industry. At system testing level, the scope of testing is the developed product as a whole, tested in a test environment that has a very close resemblance to the production system. Because of this system-wide scope and the many potential sources for failures, the implementation of automated tests at this level is challenging. Exhaustive testing is neither feasible nor maintainable, therefore proper designed test cases that cover important functionality are essential. Due to increasing laws and regulations on data protection and data privacy, proper management of test data used in auto-mated testing is as important. This paper discusses how automated system.

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CHAPTER 1

INTRODUCTION

1.1 GENERAL

Software Testing Qualification Board (ISTQB), test automation is defined as using software to either support or perform testing activities. In test automation, software is used not only for test execution per se, but also for activities like management of test cases, design of test cases or the evaluation and reporting of test results. While initially seen as a possibility to increase efficiency and reduce costs, test automation has become an essential part of software development process

1.2 OUTLINE OF THE PROJECT

To update SOCIAL NETWORK description for more than 500+ people manually it takes days, weeks, papers and human energy to complete it. But by using this project we are able to complete our work in less than an hour. It saves time, money, energy and less paper work. It is also very convenient to check, change the description of the user profile. Many errors are saved in this method.

1.3 ORGANIZATION OF THE REPORT

Chapter 2 deals with Aim, Problem Statement, Literature Review and Scope of the present investigation. Chapter 3 deals with Requirement, Role of Java and Results and Discussion. Chapter 4 deals with Conclusion and Future work.

CHAPTER 2

AIM & SCOPE

2.1 AIM

- To test Social Network, If the provided user Id and password is correct, it gets directed to the user account-> jobs -> notification -> view settings -> terms & conditions.

The given all terms will be printed in the output.

2.2 PROBLEM STATEMENT

The problem statement, is to test the SOCIAL NETWORK and the portal in a very short period of time. To give the description to the valid users and error to the invalid users. To do this process manually it takes a lot of time and many paper works. So we are using this automation testing to reduce time and work.

2.3 LITERATURE REVIEW

Universities have shown a great interest adoption of new technologies. Many research studies that conducted about adoption of new technologies had used Technology Acceptance Model (TAM). Which was developed by Davis et al. in 1989. The web technology (SOCIAL NETWORK) which was used by many universities to deliver learning and teaching besides the usual face-to-face classroom.

The research studies of Trayek and Hassan (2013) and Majdalawi et al. (2014) concerning students attitude towards using of SOCIAL NETWORK have used the core constructs: perceived ease of use, perceived usefulness of TAM. Some research studies considered demographic factors of acceptance of SOCIAL NETWORK. The study of Claar et al. (2014) has said that demographic factors such as age, race, gender, and education levels contribute on student acceptance of SOCIAL NETWORK. In this study shows the different relationships among variables such as Perceived Ease of Use has a significant positive influence on perceived usefulness of SOCIAL NETWORK, Perceived usefulness and Perceived Ease of

Use has a significant positive influence on attitude toward using SOCIAL NETWORK,

Perceived Usefulness and Attitude toward using has a significant positive influence on behavioral intentions to use, The higher the educational level, the more likely new SOCIAL NETWORK systems will be accepted and the higher a person's age, the more likely he/she is to perceive a new SOCIAL NETWORK more negatively.

2.4 SCOPE

It is more efficient and convenient for the college. It reduces the manpower needed to perform the entire administration task by reducing the paper work needed, all the work is done by the computer there will be no chance of error.

In a nutshell, it can be summarized that the future scope of the project circles around maintaining information regarding.

- * We can add printer in future
- * We can give more advance software for Social Network including more facilities
- * We will host platform on online servers to make it accessible worldwide
- * Implement the backup mechanism for taking backup of codebase and database on regular basis on different servers.

CHAPTER 3

SYSTEM IMPLEMENTATION

3.1 REQUIREMENTS

I. HARDWARE REQUIREMENTS

- A 64-bit operating system like Windows 7 or later.
- Microsoft Internet Explorer 9.0 or later.
- Intel Core i5 or Intel Core i7 (the 3rd generation).

II. SOFTWARE REQUIREMENTS

- JAVA
- Eclipse
- TestNG
- JIRA

3.2 ROLE OF JAVA

- **Java**

Java is a class-based. Object-oriented programming language that is designed to have as few implementation dependencies as possible, It is a general-purpose programming language intended to let application developers write once, run anywhere (WORA), meaning that compiled java code can run on all platforms that supports Java without the need for recompilation.

- **Eclipse**

Eclipse is an integrated development environment (IDE) used in computer program. It contains a base workspace and an extensible plug-in system for customizing the environment. Eclipse is written mostly in Java and its primary use is for developing Java applications, but it may also be used to develop applications in other programming language.

- **TestNG**

TestNG is an automation testing framework in which NG stands for “Next Generation”. TestNG is inspired from JUnit which uses the annotations (@). TestNG overcomes the disadvantages of JUnit and is designed to make end to end testing easy.

- **JIRA**

JIRA is a software application used for issue tracking and project management tool used for issues and bugs tracking system. It is widely used as an issue-tracking tool for all types of testing.

JIRA Software is an agile project management tool that supports any agile methodology, be it scrum, kanban, or your own unique flavor.

3.2 RESULTS AND DISCUSSION

Using TestNG, successfully launched the browser and the Social Network, logged into terms & conditions, the valid code executed successfully. All testcases are passed.

```
<terminated> ThirdTestcase [TestNG] C:\Program Files\Java\jdk-15.0.2\bin\javaw.exe (02-Apr-2022, 12:29:48 pm - 12:32:26 pm)
[RemoteTestNG] detected TestNG version 7.4.0
Starting ChromeDriver 99.0.4844.51 (d537ec02474b5afe23684e7963d538896c63ac77-refs/branch-heads/4844@{#875}) on port 32020
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Apr 02, 2022 12:30:00 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
heading:Testing in 600028, Chennai, Tamil Nadu, India
The validate line is present in heading
UserAgeement: Our mission is to connect the world's professionals to allow them to be more productive and successful. Our services are designed to promote economic opportunity for our m
The validate line is present in UserAgeement
Privacy: LinkedIn's mission is to connect the world's professionals to allow them to be more productive and successful. Central to this mission is our commitment to be transparent about
The validate line is present in Privacy
Cookie: At LinkedIn, we believe in being clear and open about how we collect and use data related to you. This Cookie Policy applies to any LinkedIn product or service that links to this
The validate line is present in Cookie
Copyright: LinkedIn respects the intellectual property rights of others and desires to offer a platform which contains no content that violates those rights. Our User Agreement requires
The validate line is present in Copyright
California: This notice describes the rights of Californians under the California Consumer Privacy Act of 2018 ("CCPA"). The CCPA requires businesses like us that receive information fro
The validate line is present in California
All test completed
PASSED: fnMinimize
PASSED: fnContent
PASSED: fnCopyright_Policy
PASSED: fnview
PASSED: fnHighlight
PASSED: fnPrivacy_Policy
PASSED: fnCookie_Policy
PASSED: fnSearch
PASSED: fnJobsearch
PASSED: fnNotification
PASSED: fnClose
PASSED: fnEnterId
PASSED: fnUser_Agreement
PASSED: fnCalifornia_Policy

Default test
<
```

```
<terminated> ThirdTestcase [TestNG] C:\Program Files\Java\jdk-15.0.2\bin\javaw.exe (02-Apr-2022, 12:29:48 pm - 12:32:26 pm)
heading:Testing in 600028, Chennai, Tamil Nadu, India
The validate line is present in heading
UserAgeement: Our mission is to connect the world's professionals to allow them to be more productive and successful. Our services are designed to promote economic opportunity for our m
The validate line is present in UserAgeement
Privacy: LinkedIn's mission is to connect the world's professionals to allow them to be more productive and successful. Central to this mission is our commitment to be transparent about
The validate line is present in Privacy
Cookie: At LinkedIn, we believe in being clear and open about how we collect and use data related to you. This Cookie Policy applies to any LinkedIn product or service that links to this
The validate line is present in Cookie
Copyright: LinkedIn respects the intellectual property rights of others and desires to offer a platform which contains no content that violates those rights. Our User Agreement requires
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California: This notice describes the rights of Californians under the California Consumer Privacy Act of 2018 ("CCPA"). The CCPA requires businesses like us that receive information fro
The validate line is present in California
All test completed
PASSED: fnMinimize
PASSED: fnContent
PASSED: fnCopyright_Policy
PASSED: fnview
PASSED: fnHighlight
PASSED: fnPrivacy_Policy
PASSED: fnCookie_Policy
PASSED: fnSearch
PASSED: fnJobsearch
PASSED: fnNotification
PASSED: fnClose
PASSED: fnEnterId
PASSED: fnUser_Agreement
PASSED: fnCalifornia_Policy

Default test
Tests run: 14, Failures: 0, Skips: 0

Default suite
Total tests run: 14, Passes: 14, Failures: 0, Skips: 0
<
```

eclipse-workspace - file:///C:/Users/ELCOT/eclipse-workspace/newproject/test-output/index.html - Eclipse IDE

File Edit Navigate Search Project Run Window Help

LinkedIn.java ThirdTestcase.java TestNG Report TestNG reports x

file:///C:/Users/ELCOT/eclipse-workspace/newproject/test-output/index.html#

Switch Retro Theme

Test results

- 1 test
- 0 groups
- Times
- Reporter output
- Ignored methods
- Chronological view

Results

- 14 methods, 14 passed
- Passed methods (hide)
 - fnCalifornia_Policy
 - fnContent
 - fnCookie_Policy
 - fnCopyright_Policy
 - fnEnterid
 - fnHighlight
 - fnJobsearch
 - fnMinimize
 - fnNotification
 - fnPrivacy_Policy
 - fnSearch
 - fnUser_Agreement
 - fnClose
 - fnview

TestNG.ThirdTestcase

- fnCalifornia_Policy
- fnContent
- fnCookie_Policy
- fnCopyright_Policy
- fnEnterid
- fnHighlight
- fnJobsearch
- fnMinimize
- fnNotification
- fnPrivacy_Policy
- fnSearch
- fnUser_Agreement
- fnClose
- fnview

Type here to search

08:07 02-04-2022

eclipse-workspace - file:///C:/Users/ELCOT/eclipse-workspace/newproject/test-output/emailable-report.html - Eclipse IDE

File Edit Navigate Search Project Run Window Help

LinkedIn.java ThirdTestcase.java TestNG Report x TestNG reports

file:///C:/Users/ELCOT/eclipse-workspace/newproject/test-output/emailable-report.html#m0

Test	# Passed	# Skipped	# Retried	# Failed	Time (ms)	Included Groups	Excluded Groups
Default suite							
Default test	14	0	0	0	143,945		

Class	Method	Start	Time (ms)
Default suite			
Default test — passed			
TestNG.ThirdTestcase	fnCalifornia_Policy	1648866948306	3499
	fnContent	1648866908722	953
	fnCookie_Policy	1648866940320	4087
	fnCopyright_Policy	1648866944411	3888
	fnEnterid	1648866850196	2324
	fnHighlight	1648866828605	21587
	fnJobsearch	1648866897938	10777
	fnMinimize	1648866852528	45394
	fnNotification	1648866909680	1993
	fnPrivacy_Policy	1648866934245	6060
	fnSearch	1648866813435	15098
	fnUser_Agreement	1648866925208	9023
	fnClose	1648866951820	5470
	fnview	1648866911687	13505

Type here to search

08:07 02-04-2022

LinkedIn India: Log In or Sign Up

in.linkedin.com/?trk=IN-SEM_google-adwords_Jordan-brand-sign-up&mcid=6844056167778418689&trk2=ga_campid=14650114...

IBM Software | IBM

LinkedIn

Discover People Learning Jobs Join now Sign in

Welcome to your professional community

Search for a job >

Find a person you know >

Learn a new skill >



LinkedIn

Sign in

Stay updated on your professional world

Email or Phone

boomeshm815@gmail.com

Password

show

[Forgot password?](#)

Sign in

or

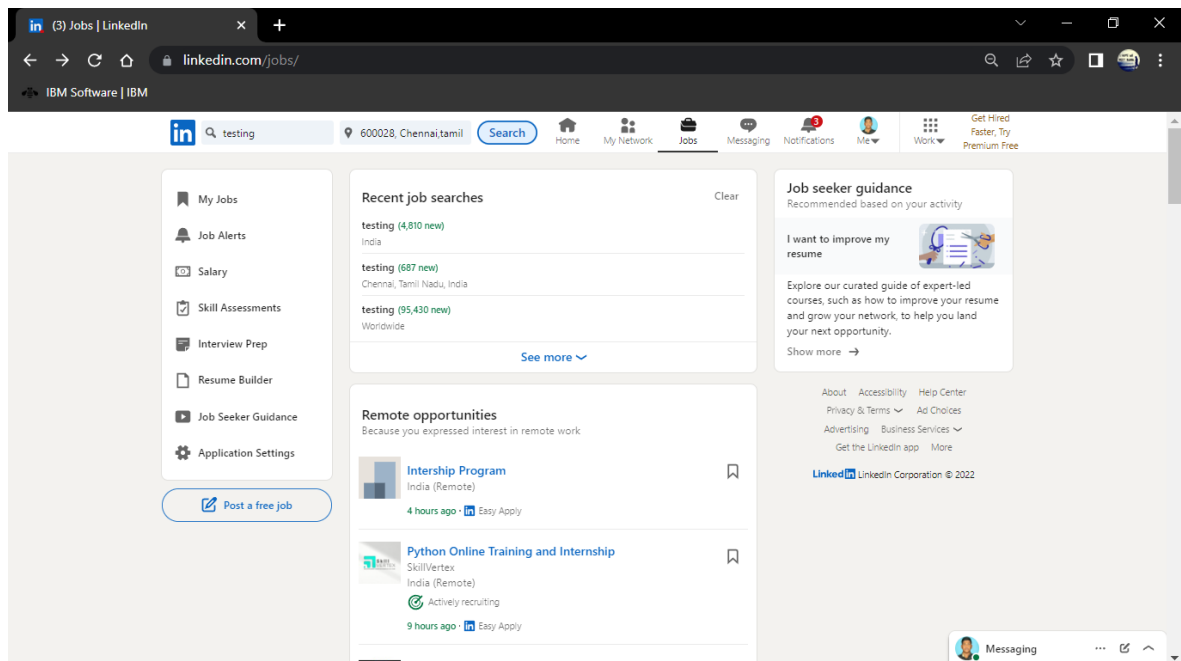
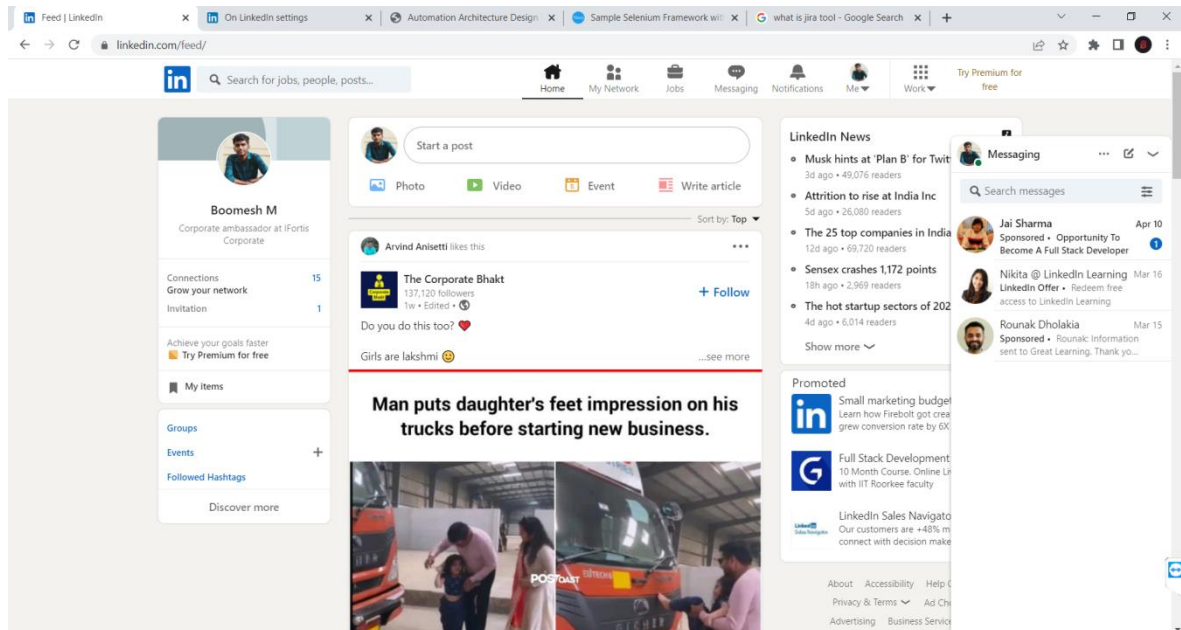
Sign in with Google

Sign in with Apple

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Establishing secure connection...



The screenshot shows a LinkedIn job search interface. The search criteria are 'testing' with a location filter for '600028, Chennai, Tamil Nadu, India'. The results list includes:

- Engineer, Systems Integration Testing** at IntelSat, Chennai, Tamil Nadu, India. 7,923 results. Promoted.
- Testing Associate, Device OS** at Amazon, Chennai, Tamil Nadu, India. 177 alumni work here. Promoted.
- IT Quality Analyst 2 - C10** at Citi, Chennai, Tamil Nadu, India. 50 alumni work here. 1 week ago.
- Testing Associate, Device OS** at Amazon, Chennai, Tamil Nadu, India. 177 alumni work here. 1 day ago.

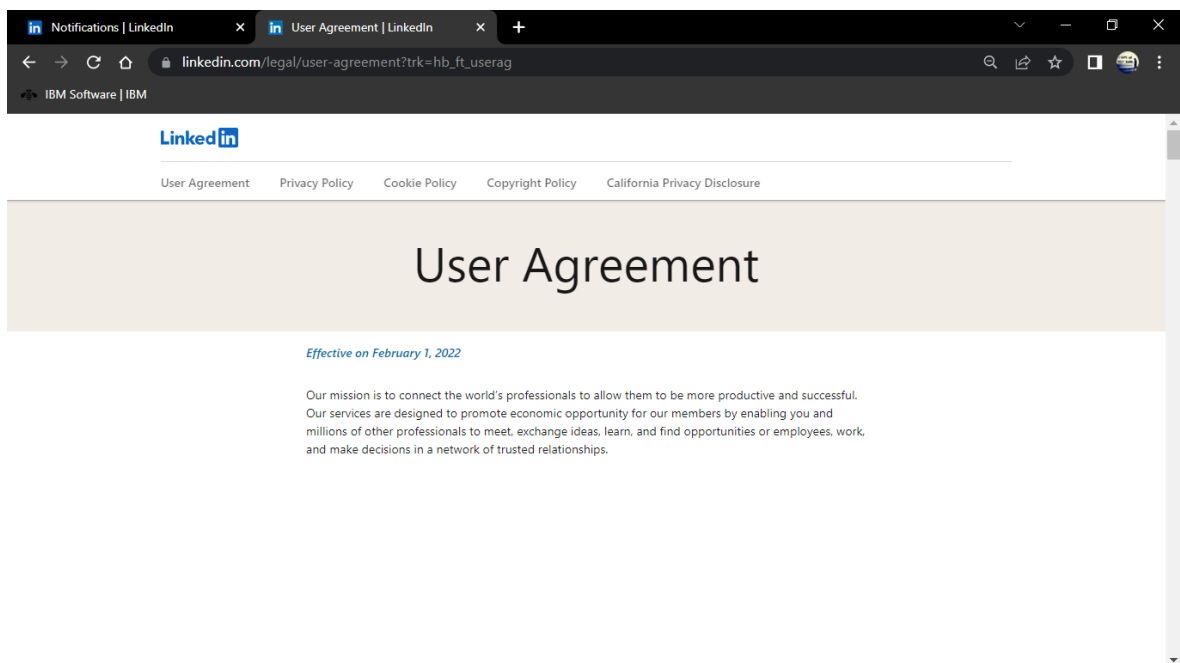
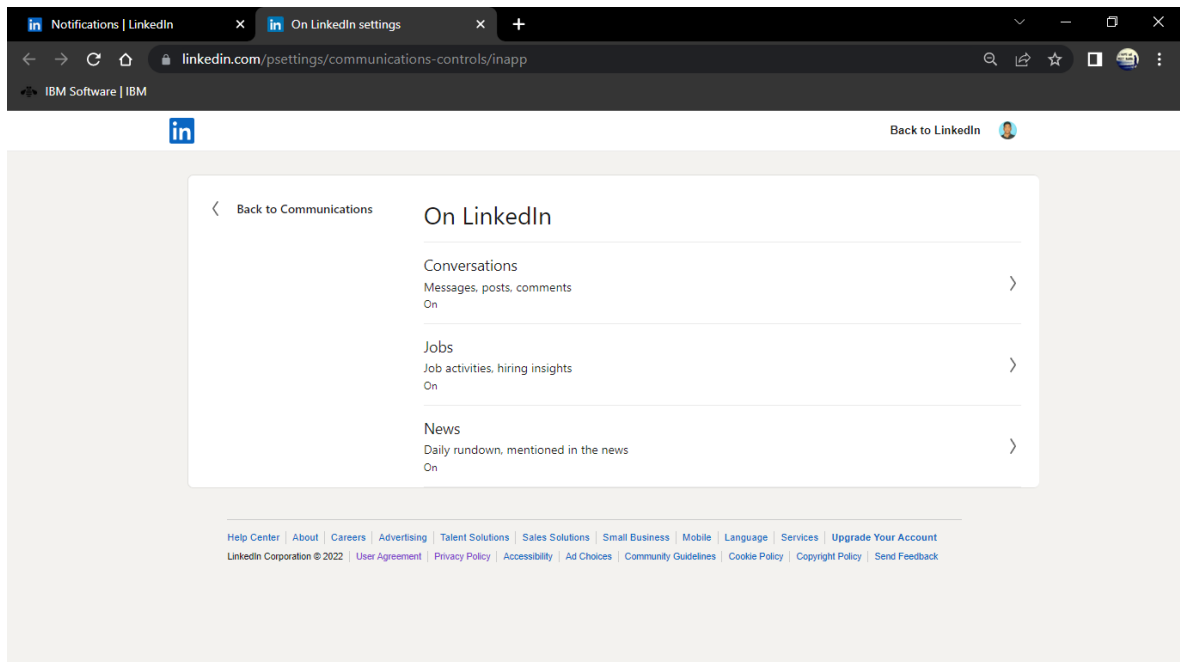
The detailed view for the 'Engineer, Systems Integration Testing' job at IntelSat shows:

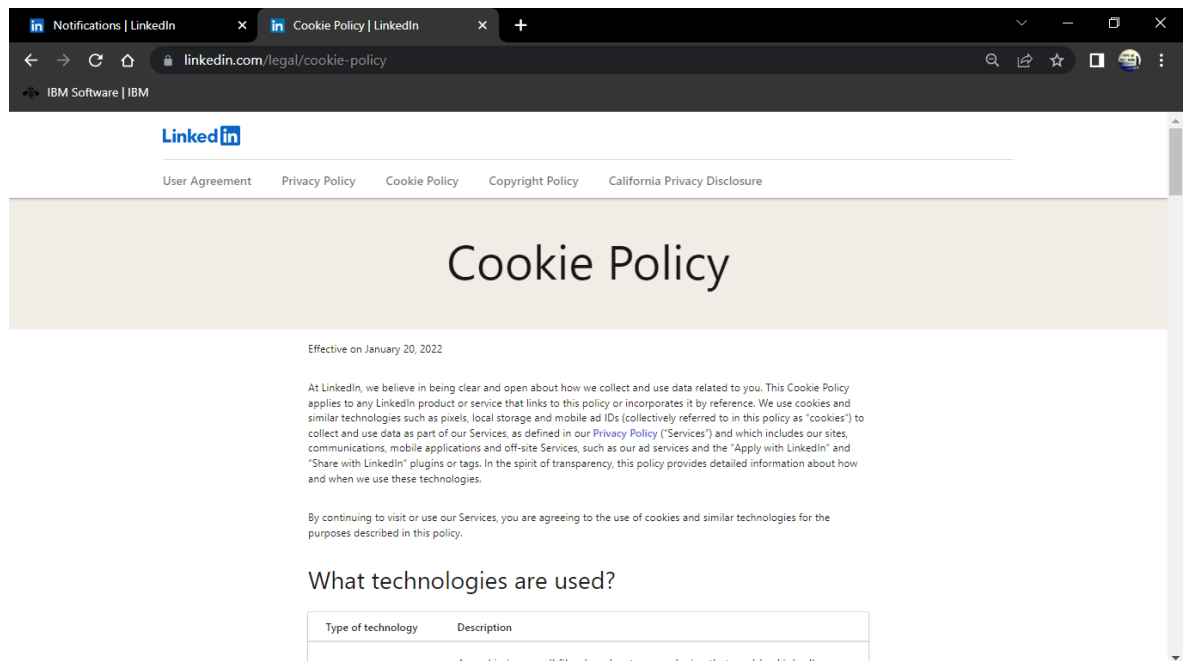
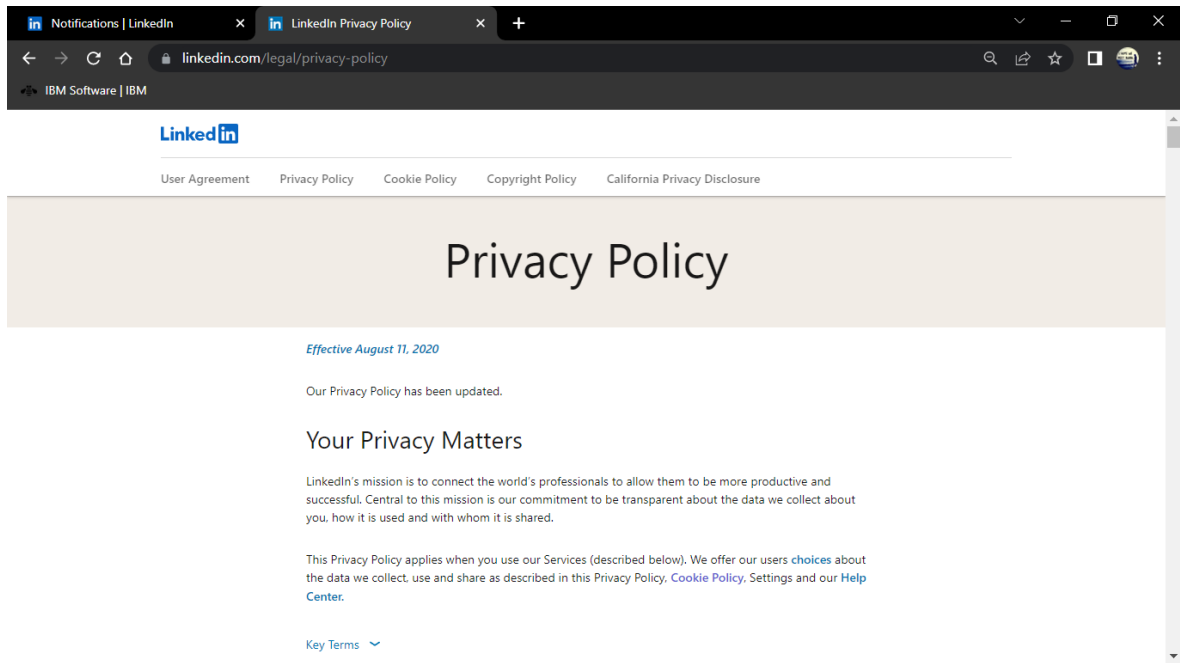
- Job Details:** Full-time - Entry level, 1,001-5,000 employees - Telecommunications, 1 school alumni. See how you compare to 227 applicants. Try Premium for free. Actively recruiting.
- Job Description:** Your role in helping us shape the future: You will play a vital role in the creation and upkeep of all Automated and Manual testing endeavors. As an integral part of the release cycle you will partner with developers internal business owners and other departments to define and influence the overall performance of our products.
- Are you up to the challenge?**
 - Work with System Design Product and Development to build testing and validation test plans.
 - Collaborate with product design and broader organization teams on feature

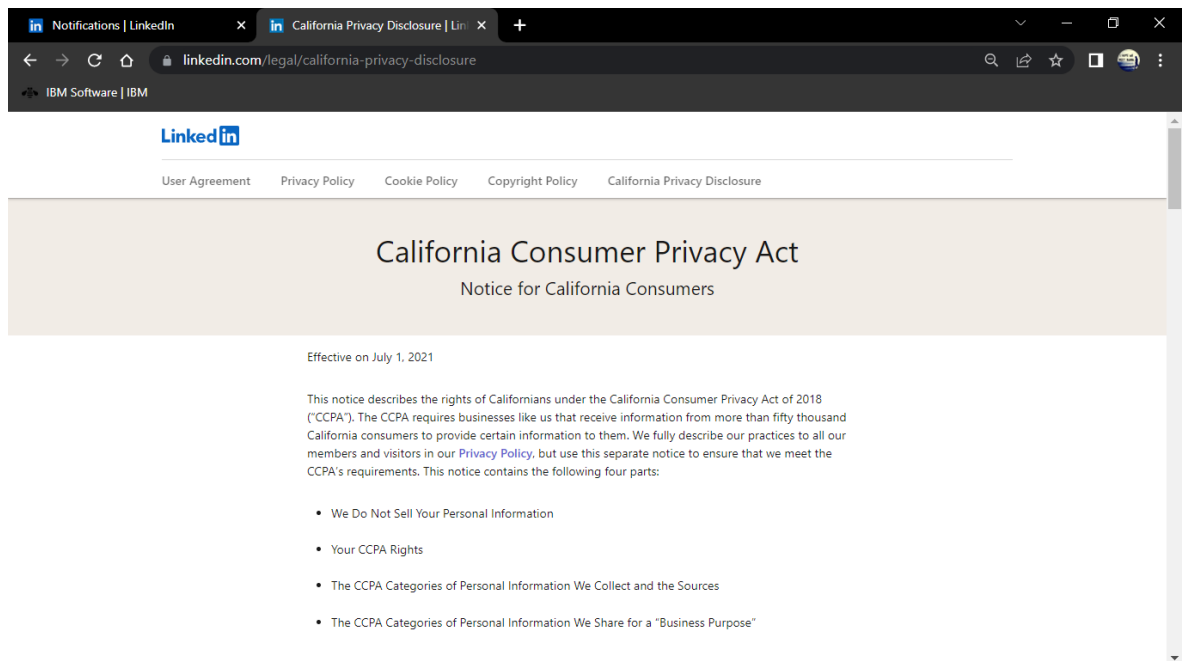
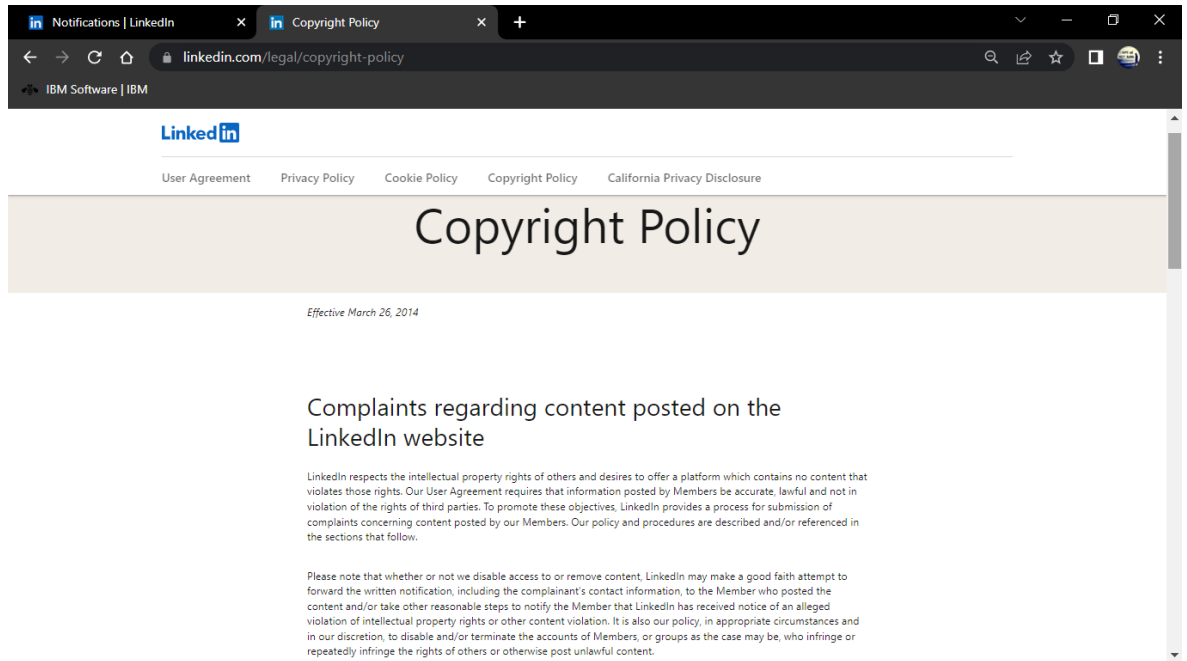
The screenshot shows a LinkedIn notifications page. The notifications include:

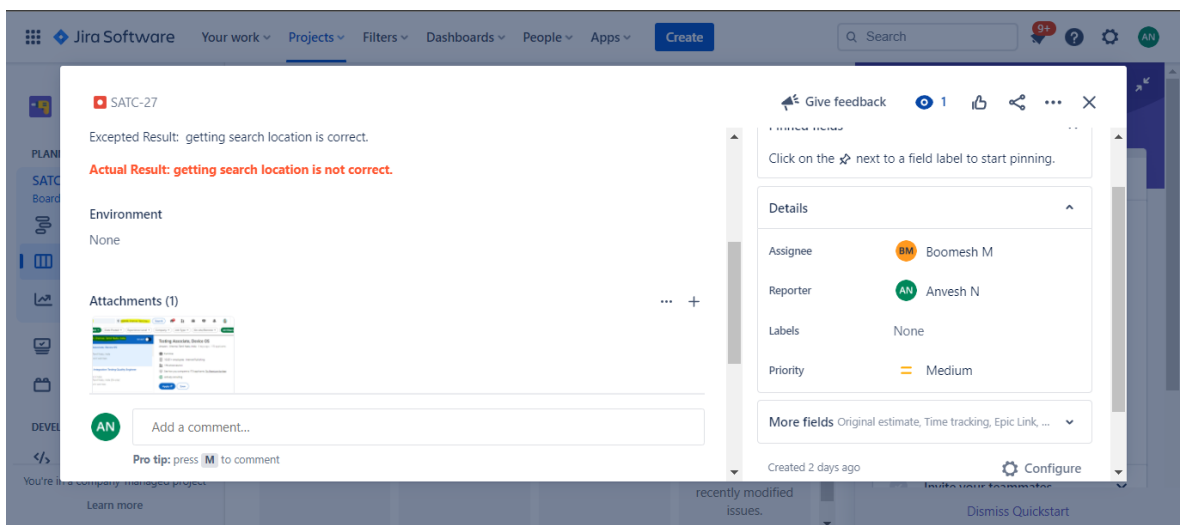
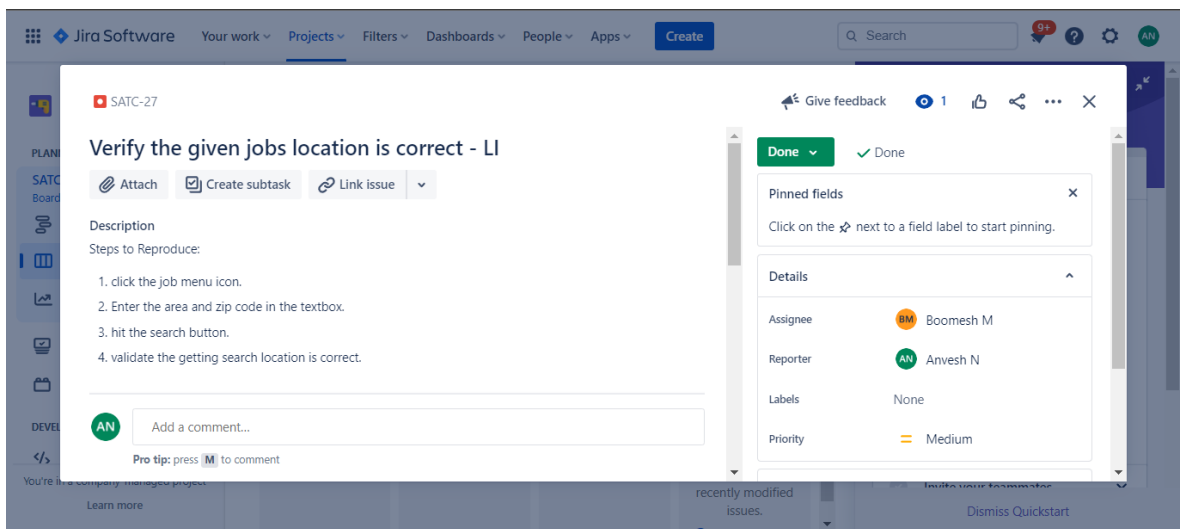
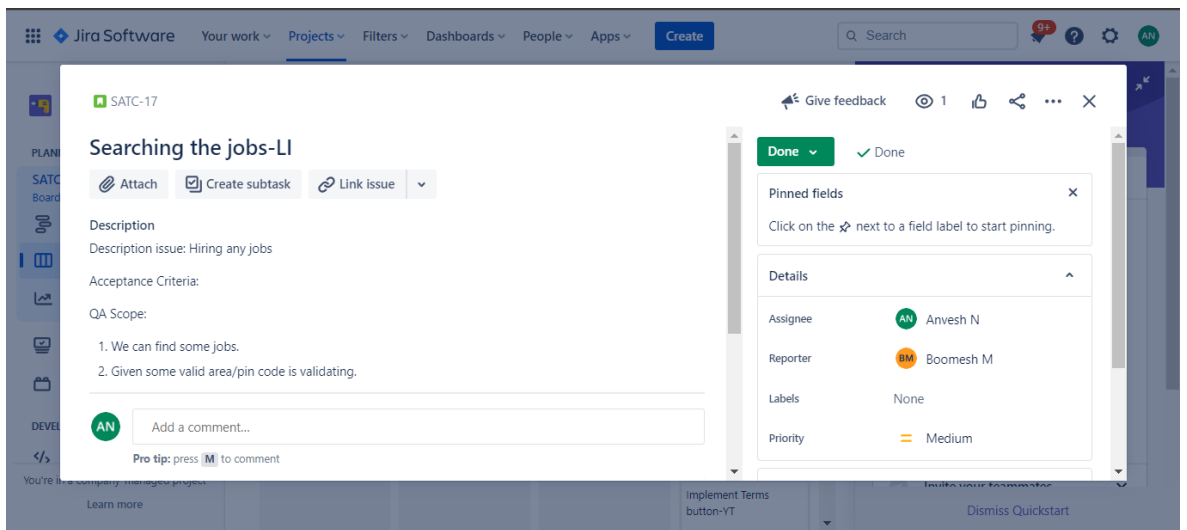
- Your Tuesday Daily Rundown:** Swiggy invests in Rapido; Sensex crashes 1,172 points; and other top news for you. 4h.
- Monday News Wrap:** Passenger vehicle exports from India rise 43%; Indian startups big on work from anywhere; and more. 18h.
- ONLINE WORK FROM HOME WONDERFUL OPPORTUNITY** is hiring: Online work. See this and 9 other job recommendations. 23h.
- Your Monday Daily Rundown:** The 'green flags' of job searching: Applying for fresher roles? Watch this; and other top news for you. 1d.
- This post is popular at Google:** Great article by Cat Clifford featuring our own Michael Terrell & Maud Texier. Read about our ambition to operate on 24/7 carbon-free energy by 203... 627 Reactions • 36 Comments. 1d.
- You appeared in 2 searches** this week. 3d.

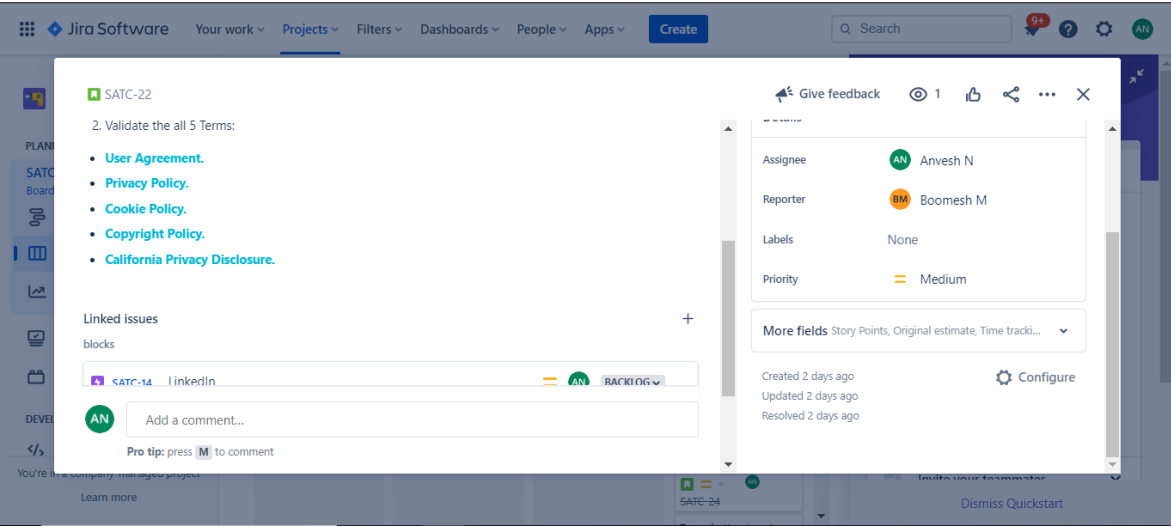
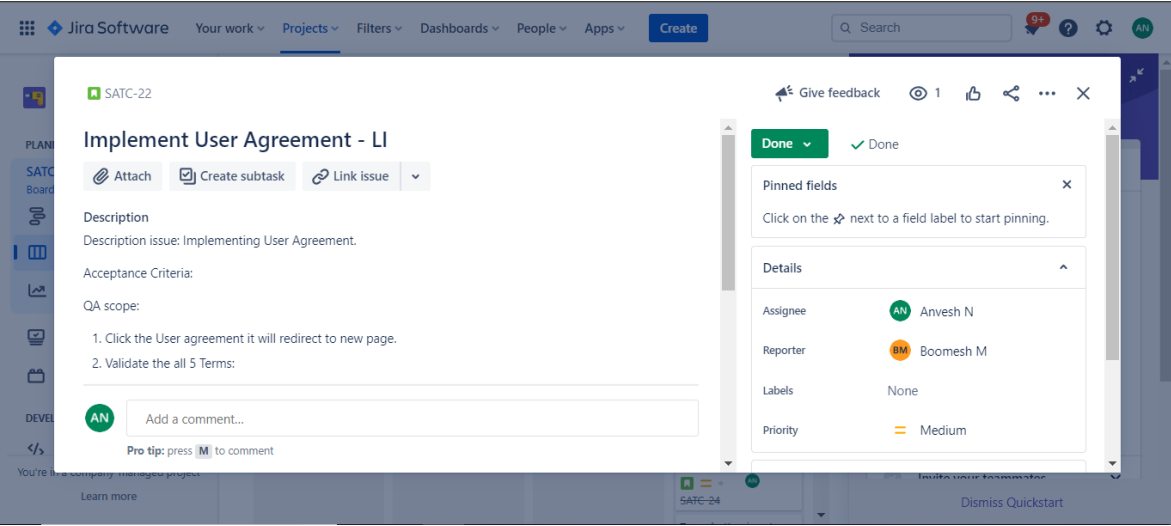
On the right side, there is an advertisement for Boomesh, exploring relevant opportunities with GRUNDFOS. The bottom of the page shows a 'Waiting for sb.scorecardresearch.com...' message and a 'Messaging' button.

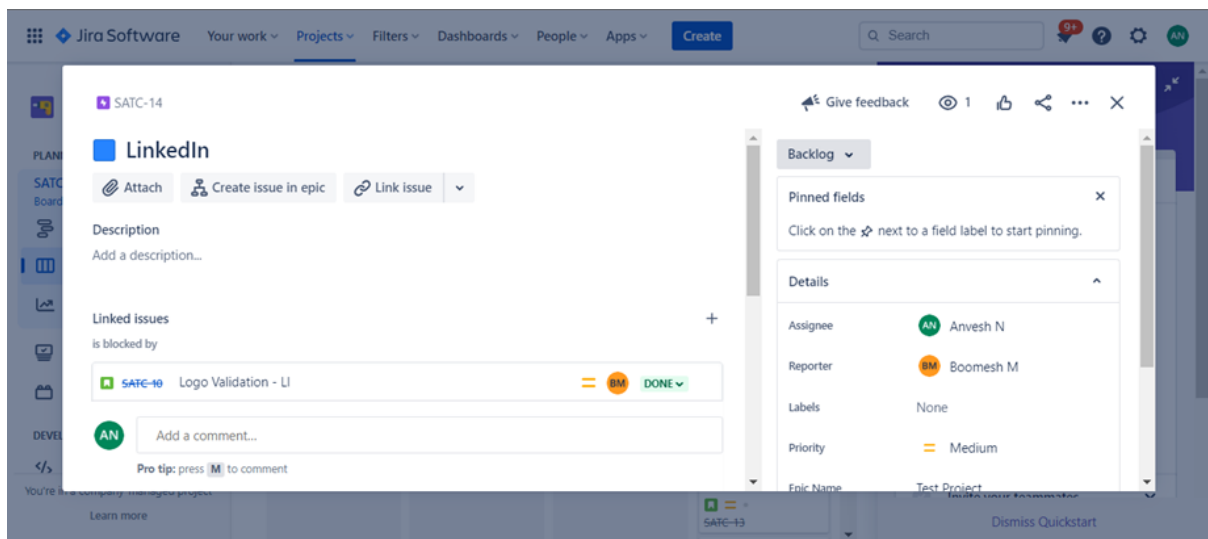
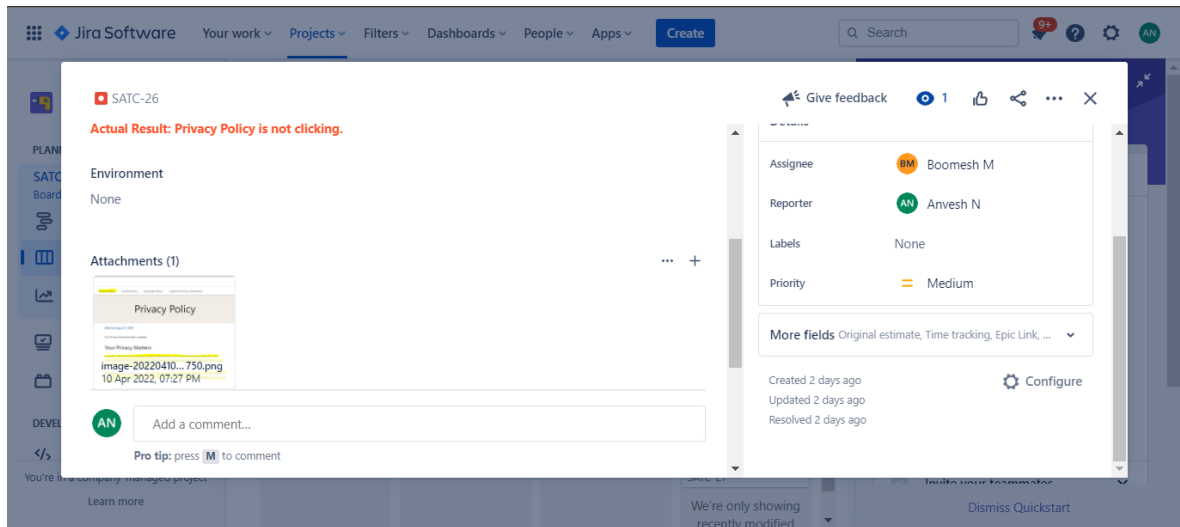
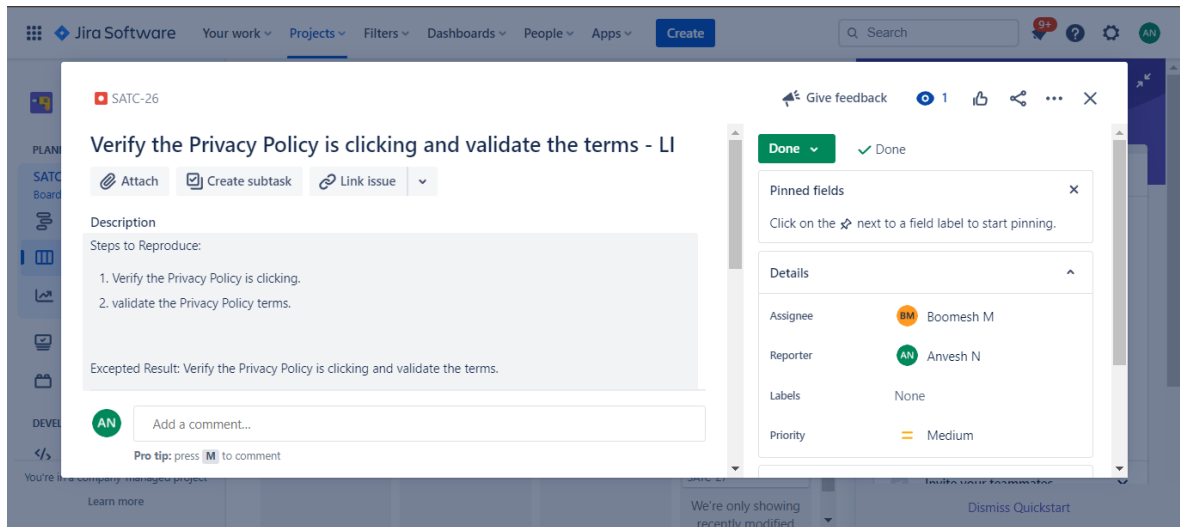












Jira Software Your work Projects Filters Dashboards People Apps Create

SATC-14

SATE-12	Login Page LI	BM	DONE
SATE-16	Message box minimize - LI	AN	DONE
SATE-17	Searching the jobs-LI	AN	DONE
SATE-20	Clicking Notification -LI	AN	DONE
SATE-22	Implement User Agreement - LI	AN	DONE
SATE-24	Validating the all privacy terms - LI	AN	DONE
SATE-26	Verify the Privacy Policy is clicking and validate the terms - LI	BM	DONE

Add a comment...

Pro tip: press **M** to comment

Give feedback 1

Assignee: AN Anvesh N

Reporter: BM Boomesh M

Labels: None

Priority: Medium

Epic Name: Test Project

More fields Story Points, Original estimate, Time tracki...

Created 2 days ago Updated 2 days ago

Configure

Jira Software Your work Projects Filters Dashboards People Apps Create

SATC-14

SATE-22	Implement User Agreement - LI	AN	DONE
SATE-24	Validating the all privacy terms - LI	AN	DONE
SATE-26	Verify the Privacy Policy is clicking and validate the terms - LI	BM	DONE
SATE-27	Verify the given jobs location is correct - LI	BM	DONE

Activity

Show: All Comments History Work log

Newest first

Add a comment...

Pro tip: press **M** to comment

Give feedback 1

Assignee: AN Anvesh N

Reporter: BM Boomesh M

Labels: None

Priority: Medium

Epic Name: Test Project

More fields Story Points, Original estimate, Time tracki...

Created 2 days ago Updated 2 days ago

Configure

CHAPTER 4

CONCLUSION AND FUTURE WORK

4.1 CONCLUSION

Selenium is a cost-effective and flexible tool developers can use in the automation testing of their web applications. The most intriguing feature of this software is the ability to test applications across various web browsers.

This ensures that websites do not crash or breakdown in certain browsers. The Selenium software is ideal for companies developing applications that support heavy traffic, especially social platforms and e-commerce websites.

I say that this project has given me a great experience. Thanks to this project, I learned a lot of technical skill as well as I was personally benefited.

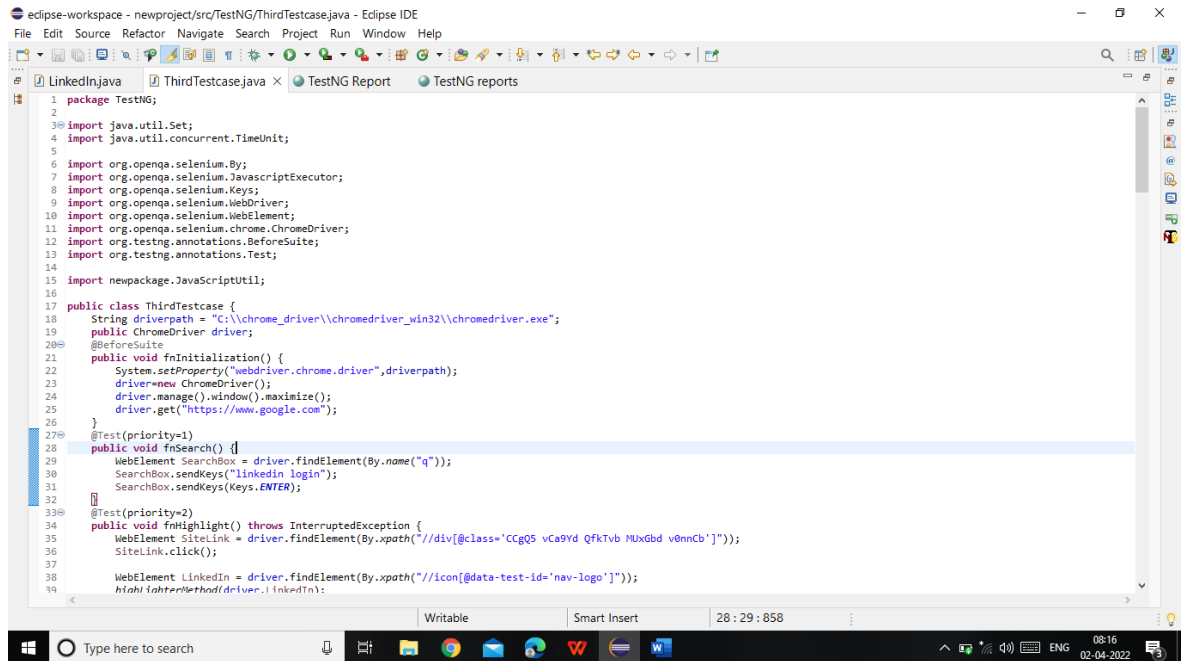
4.2 FUTURE WORK

There is a future scope of this facility that many more features such as online lectures video tutorials can be added by teachers as well as online assignments submission facility, a feature of group chat where students can discuss various issues of engineering can be added to this project thus making it more interactive more user friendly and project which fulfills each users need in the best way possible.

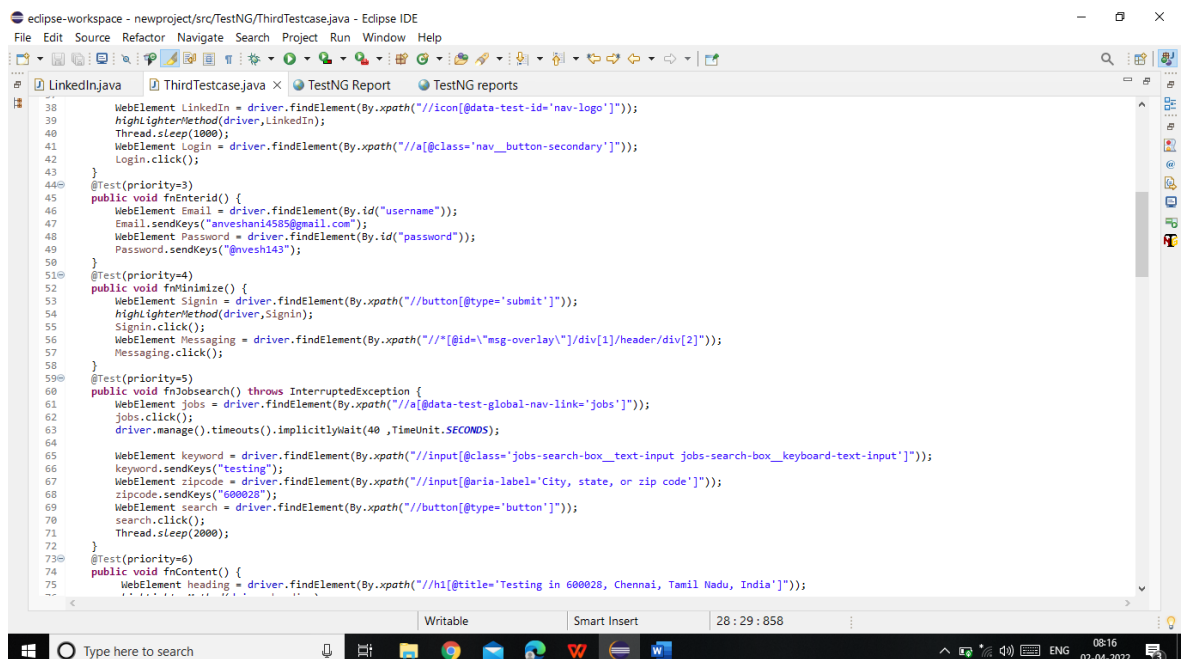
This project can be further implemented by testing the Social Network by directing it into different jobs, or notification. The code can be developed in eclipse application and by the help of JavaScript, the code is executed in TestNG tool.

APPENDICES

A. SCREENSHOTS



```
1 package TestNG;
2
3 import java.util.Set;
4 import java.util.concurrent.TimeUnit;
5
6 import org.openqa.selenium.By;
7 import org.openqa.selenium.JavascriptExecutor;
8 import org.openqa.selenium.Keys;
9 import org.openqa.selenium.WebDriver;
10 import org.openqa.selenium.WebElement;
11 import org.openqa.selenium.chrome.ChromeDriver;
12 import org.testng.annotations.BeforeSuite;
13 import org.testng.annotations.Test;
14
15 import newpackage.JavaScriptUtil;
16
17 public class ThirdTestcase {
18     String driverpath = "C:\\chrome_driver\\chromedriver_win32\\chromedriver.exe";
19     public ChromeDriver driver;
20     @BeforeSuite
21     public void fnInitialization() {
22         System.setProperty("webdriver.chrome.driver", driverpath);
23         driver = new ChromeDriver();
24         driver.manage().window().maximize();
25         driver.get("https://www.google.com");
26     }
27     @Test(priority=1)
28     public void fnSearch() {
29         WebElement SearchBox = driver.findElement(By.name("q"));
30         SearchBox.sendKeys("linkedin login");
31         SearchBox.sendKeys(Keys.ENTER);
32     }
33     @Test(priority=2)
34     public void fnHighlight() throws InterruptedException {
35         WebElement SiteLink = driver.findElement(By.xpath("//div[@class='CCgQ5 vCa9Yd QfkTvB MUXbd v0nnCb']"));
36         SiteLink.click();
37         WebElement LinkedIn = driver.findElement(By.xpath("//img[@data-test-id='nav-logo']"));
38         highlighterMethod(driver, LinkedIn);
39     }
40 }
```



```
38     WebElement LinkedIn = driver.findElement(By.xpath("//img[@data-test-id='nav-logo']"));
39     highlighterMethod(driver, LinkedIn);
40     Thread.sleep(1000);
41     WebElement Login = driver.findElement(By.xpath("//a[@class='nav__button-secondary']"));
42     Login.click();
43 }
44 @Test(priority=3)
45 public void fnEnterId() {
46     WebElement Email = driver.findElement(By.id("username"));
47     Email.sendKeys("anveshani458@gmail.com");
48     WebElement Password = driver.findElement(By.id("password"));
49     Password.sendKeys("@nvesh143");
50 }
51 @Test(priority=4)
52 public void fnMinimize() {
53     WebElement Signin = driver.findElement(By.xpath("//button[@type='submit']"));
54     Signin.click();
55     WebElement Messaging = driver.findElement(By.xpath("//div[@id='msg-overlay']/div[1]/header/div[2]"));
56     Messaging.click();
57 }
58 }
59 @Test(priority=5)
60 public void fnJobsearch() throws InterruptedException {
61     WebElement jobs = driver.findElement(By.xpath("//a[@data-test-global-nav-link='jobs']"));
62     jobs.click();
63     driver.manage().timeouts().implicitlyWait(40, TimeUnit.SECONDS);
64     WebElement keyword = driver.findElement(By.xpath("//input[@class='jobs-search-box__text-input jobs-search-box__keyboard-text-input']"));
65     keyword.sendKeys("testing");
66     WebElement zipcode = driver.findElement(By.xpath("//input[@aria-label='City, state, or zip code']"));
67     zipcode.sendKeys("600028");
68     WebElement search = driver.findElement(By.xpath("//button[@type='button']"));
69     search.click();
70     Thread.sleep(2000);
71 }
72 }
73 @Test(priority=6)
74 public void fnContent() {
75     WebElement heading = driver.findElement(By.xpath("//h1[@title='Testing in 600028, Chennai, Tamil Nadu, India']"));
76 }
```

```
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71 Thread.sleep(2000);
72 }
73 @Test(priority=6)
74 public void fnContent() {
75     WebElement heading = driver.findElement(By.xpath("//h1[title='Testing in 600028, Chennai, Tamil Nadu, India']"));
76     highlightMethod(driver, heading);
77     String txt = heading.getText();
78     System.out.println("heading: "+txt);
79     if(txt.contains("Testing in 600028"))
80     {
81         System.out.println("The validate line is present in heading");
82     }
83     else {
84         System.out.println("presenting the validation wrongly");
85     }
86 }
87 @Test(priority=7)
88 public void fnNotification() throws InterruptedException {
89     WebElement notification = driver.findElement(By.xpath("//a[data-test-global-nav-link='notifications']"));
90     notification.click();
91     Thread.sleep(1000);
92 }
93 @Test(priority=8)
94 public void fnview() throws InterruptedException {
95     String parent=driver.getWindowHandle();
96     WebElement view = driver.findElement(By.xpath("//a[@rel='noopener noreferrer']"));
97     view.click();
98     Set<String> handles = driver.getWindowHandles();
99     for (String handle : handles) {
100         if(handle.equals(parent)) {
101             driver.switchTo().window(handle);
102             WebElement terms = driver.findElement(By.xpath("//a[contains(text),'User Agreement']"));
103             terms.click();
104             Thread.sleep(3000);
105         }
106     }
107 }
108 @Test(priority=9)
109 public void fnUser_Agreement() throws InterruptedException {
```

```
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108 @Test(priority=9)
109 public void fnUser_Agreement() throws InterruptedException {
110     WebElement User = driver.findElement(By.xpath("//a[@href='https://www.linkedin.com/legal/user-agreement']"));
111     highlightMethod(driver, User);
112     User.click();
113     WebElement UserAgreement = driver.findElement(By.xpath("//div[@id='component-container']/div[2]/div/p[2]"));
114     highlightMethod(driver, UserAgreement);
115     String text = UserAgreement.getText();
116     System.out.println("UserAgreement: "+text);
117     if(text.contains("Our mission is to connect the world's"))
118     {
119         System.out.println("The validate line is present in UserAgreement");
120     }
121     else {
122         System.out.println("presenting the validation wrongly");
123     }
124     Thread.sleep(2000);
125 }
126 @Test(priority=10)
127 public void fnPrivacy_Policy() throws InterruptedException {
128     WebElement PrivacyPolicy = driver.findElement(By.xpath("//a[@href='https://www.linkedin.com/legal/privacy-policy']"));
129     highlightMethod(driver, PrivacyPolicy);
130     PrivacyPolicy.click();
131     WebElement privacy = driver.findElement(By.xpath("//div[@id='keytermsintro']/div/p[1]/a/em"));
132     JavaScriptUtil.scrollToView(privacy, driver);
133     WebElement Privacy = driver.findElement(By.xpath("//div[@id='keytermsintro']/div/p[3]"));
134     highlightMethod(driver, Privacy);
135     String type = Privacy.getText();
136     System.out.println("Privacy: "+type);
137     if(type.contains("LinkedIn's mission is to connect the world's"))
138     {
139         System.out.println("The validate line is present in Privacy ");
140     }
141     else {
142         System.out.println("presenting the validation wrongly");
143     }
144     Thread.sleep(2000);
145 }
146 @Test(priority=11)
```

```
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144
145 @Test(priority=11)
146 public void fnCookie_Policy() throws InterruptedException {
147     WebElement CookiePolicy = driver.findElement(By.xpath("//a[@href='https://www.linkedin.com/legal/cookie-policy']"));
148     highlighterMethod(driver, CookiePolicy);
149     CookiePolicy.click();
150     WebElement Cookie = driver.findElement(By.xpath("//div[@id='component-container']/div[2]/div/p[2]"));
151     highlighterMethod(driver, Cookie);
152     String enter = Cookie.getText();
153     System.out.println("Cookie: "+enter);
154     if(enter.contains("At LinkedIn, we believe in being clear and open"))
155     {
156         System.out.println("The validate line is present in Cookie");
157     }
158     else {
159         System.out.println("presenting the validation wrongly");
160     }
161     Thread.sleep(2000);
162 }
163 @Test(priority=12)
164 public void fnCopyright_Policy() throws InterruptedException {
165     WebElement CopyrightPolicy = driver.findElement(By.xpath("//a[@href='https://www.linkedin.com/legal/copyright-policy']"));
166     highlighterMethod(driver, CopyrightPolicy);
167     CopyrightPolicy.click();
168     WebElement Copyright = driver.findElement(By.xpath("//div[@id='component-container']/div[2]/div/p/em"));
169     JavaScriptUtil.scrollIntoView(Copyright, driver);
170     WebElement Copyright = driver.findElement(By.xpath("//div[@id='component-container']/div[3]/div/p[1]"));
171     highlighterMethod(driver, Copyright);
172     String variable = Copyright.getText();
173     System.out.println("Copyright: "+variable);
174     if(variable.contains("Please note that any notice or counter-notice"))
175     {
176         System.out.println("The validate line is present in Copyright");
177     }
178     else {
179         System.out.println("presenting the validation wrongly");
180     }
181     Thread.sleep(2000);
182 }
183 @Test(priority=13)
184 public void fnCalifornia_Policy() throws InterruptedException {
```

```
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176     }
177     System.out.println("presenting the validation wrongly");
178     Thread.sleep(2000);
179 }
180 }
181 @Test(priority=13)
182 public void fnCalifornia_Policy() throws InterruptedException {
183     WebElement CaliforniaPolicy = driver.findElement(By.xpath("//a[@href='https://www.linkedin.com/legal/california-privacy-disclosure']"));
184     highlighterMethod(driver, CaliforniaPolicy);
185     CaliforniaPolicy.click();
186     WebElement California = driver.findElement(By.xpath("//div[@id='component-container']/div[2]/div/p[2]"));
187     highlighterMethod(driver, California);
188     String content = California.getText();
189     System.out.println("California: "+content);
190     if(content.contains("This notice describes the rights of Californians"))
191     {
192         System.out.println("The validate line is present in California");
193     }
194     else {
195         System.out.println("presenting the validation wrongly");
196     }
197     Thread.sleep(2000);
198 }
199 public static void scrollIntoView(WebElement element, WebDriver driver) {
200     JavascriptExecutor js = ((JavascriptExecutor) driver);
201     js.executeScript("arguments[0].scrollIntoView(true);", element);
202 }
203 private static void highlighterMethod(WebDriver driver, WebElement LinkedIn) {
204     JavascriptExecutor js = ((JavascriptExecutor) driver);
205     js.executeScript("arguments[0].setAttribute('style', 'background: yellow; border: 2px solid red;');", LinkedIn);
206 }
207 @Test(priority=15)
208 public void fnClose() {
209     //close chrome
210     driver.quit();
211     System.out.println("All test completed");
212 }
213 }
214 }
```

SOURCE CODE:

```
package TestNG;
import java.util.Set;
import java.util.concurrent.TimeUnit;
import org.openqa.selenium.By;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.BeforeSuite;
import org.testng.annotations.Test;

public class testng2 {
    String driverpath = "C:\\chrome_driver\\chromedriver_win32
(1)\\chromedriver.exe";
    public ChromeDriver driver;
    @BeforeSuite
    public void fnInitialization() {
        System.setProperty("webdriver.chrome.driver",driverpath);
        driver=new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://www.google.com");
    }
    @Test(priority=1)
    public void fnSearch() {
        WebElement SearchBox = driver.findElement(By.name("q"));
        SearchBox.sendKeys("linkedin login");
        SearchBox.sendKeys(Keys.ENTER);
    }
    @Test(priority=2)
    public void fnHighlight() throws InterruptedException {
```

```

WebElement SiteLink =
driver.findElement(By.xpath("//div[@class='CCgQ5 vCa9Yd
QfkTvb MUxGbd v0nnCb']"));
SiteLink.click();

```

```

WebElement LinkedIn =
driver.findElement(By.xpath("//icon[@data-test-id='nav-
logo']"));
highLighterMethod(driver,LinkedIn);
Thread.sleep(1000);

```

```

WebElement Login =
driver.findElement(By.xpath("//a[@class='nav__button-
secondary']"));
Login.click();

```

```

}

```

```

@Test(priority=3)

```

```

public void fnEnterid() {

```

```

WebElement Email = driver.findElement(By.id("username"));

```

```

Email.sendKeys("boomeshm815@gmail.com");

```

```

WebElement Password =
driver.findElement(By.id("password"));

```

```

Password.sendKeys("boomesh%#@2002");

```

```

}

```

```

@Test(priority=4)

```

```

public void fnMinimize() {

```

```

WebElement Signin =
driver.findElement(By.xpath("//button[@type='submit']"));

```

```

highLighterMethod(driver,Signin);

```

```

Signin.click();

```

```

WebElement Messaging =
driver.findElement(By.xpath("//*[@id='msg-
overlay']/div[1]/header/div[2]"));

```

```

Messaging.click();

```

```

}

```

```

@Test(priority=5)

```

```

public void fnJobsearch() throws InterruptedException {

```

```

WebElement jobs = driver.findElement(By.xpath("//a[@data-

```

```

test-global-nav-link='jobs']"));
    jobs.click();
    driver.manage().timeouts().implicitlyWait(40
, TimeUnit.SECONDS);

    WebElement keyword =
driver.findElement(By.xpath("//input[@class='jobs-search-
box__text-input jobs-search-box__keyboard-text-input']"));
    keyword.sendKeys("testing");
    WebElement zipcode =
driver.findElement(By.xpath("//input[@aria-label='City, state, or
zip code']"));
    zipcode.sendKeys("600028");
    WebElement search =
driver.findElement(By.xpath("//button[@type='button']"));
    search.click();
    Thread.sleep(2000);
}
@Test(priority=6)
public void fnContent() {
    WebElement heading =
driver.findElement(By.xpath("//h1[@title='Testing in 600028,
Chennai, Tamil Nadu, India']"));
    highLighterMethod(driver, heading);
    String txt = heading.getText();
    System.out.println("heading:"+txt);
    if(txt.contains("Testing in 600028"))
    {
        System.out.println("The validate line is present in heading");
    }
    else {
        System.out.println("presenting the validation wrongly");
    }
}
@Test(priority=7)
public void fnNotification() throws InterruptedException {
    WebElement notification =

```

```

driver.findElement(By.xpath("//a[@data-test-global-nav-link='notifications']"));
    notification.click();
    Thread.sleep(1000);
}

@Test(priority=8)
public void fnview() throws InterruptedException {
    String parent=driver.getWindowHandle();
    WebElement view =
driver.findElement(By.xpath("//a[@rel='noopener noreferrer']"));
    view.click();
    Set<String> handles = driver.getWindowHandles();
    for (String handle : handles) {
        if(!handle.equals(parent)) {
            driver.switchTo().window(handle);
            WebElement terms =
driver.findElement(By.xpath("//a[contains(text(),'User Agreement')]"));
            terms.click();
            Thread.sleep(3000);
        }
    }
}

@Test(priority=9)
public void fnUser_Agreement() throws InterruptedException {

    WebElement User =
driver.findElement(By.xpath("//a[@href='https://www.linkedin.com/legal/user-agreement']"));
    highLighterMethod(driver,User);
    User.click();

    WebElement UserArgeement =
driver.findElement(By.xpath("//*[@id=\"component-container\"]/div[2]/div/p[2]"));
    highLighterMethod(driver,UserArgeement);
    String text =UserArgeement.getText();
    System.out.println("UserArgeement: "+text);
}

```

```

        if(text.contains("Our mission is to connect the world's"))
        {
            System.out.println("The validate line is present in
UserArgeement");
        }else {
            System.out.println("presenting the validation
wrongly");
        }
        Thread.sleep(2000);
    }
    @Test(priority=10)
    public void fnPrivacy_Policy() throws InterruptedException {
        WebElement PrivacyPolicy =
driver.findElement(By.xpath("//a[@href='https://www.linkedin.c
om/legal/privacy-policy']"));
        highlightMethod(driver,PrivacyPolicy);
        PrivacyPolicy.click();
        WebElement Privacy =
driver.findElement(By.xpath("//*[@id=\"keytermsintro\"]/div/p[3]
"));
        highlightMethod(driver,Privacy);
        String type = Privacy.getText();
        System.out.println("Privacy: "+type);
        if(type.contains("LinkedIn's mission is to connect the
world's"))
        {
            System.out.println("The validate line is present in
Privacy ");
        }else {
            System.out.println("presenting the validation
wrongly");
        }
        Thread.sleep(2000);
    }
    @Test(priority=11)
    public void fnCookie_Policy() throws InterruptedException {
        WebElement CookiePolicy =

```

```

driver.findElement(By.xpath("//a[@href='https://www.linkedin.c
om/legal/cookie-policy']"));
    highLighterMethod(driver, CookiePolicy);
    CookiePolicy.click();

    WebElement Cookie =
driver.findElement(By.xpath("//*[@id=\"component-
container\"]/div[2]/div/p[2]"));
    highLighterMethod(driver, Cookie);
    String enter = Cookie.getText();
    System.out.println("Cookie: "+enter);
    if(enter.contains("At LinkedIn, we believe in being clear
and open"))
    {
        System.out.println("The validate line is present in
Cookie");
    }else {
        System.out.println("presenting the validation
wrongly");
    }
    Thread.sleep(2000);
}

@Test(priority=12)
public void fnCopyright_Policy() throws InterruptedException
{
    WebElement CopyrightPolicy =
driver.findElement(By.xpath("//a[@href='https://www.linkedin.c
om/legal/copyright-policy']"));
    highLighterMethod(driver, CopyrightPolicy);
    CopyrightPolicy.click();

    WebElement Copyright =
driver.findElement(By.xpath("//*[@id=\"component-
container\"]/div[3]/div/p[1]"));
    highLighterMethod(driver, Copyright);
    String variable = Copyright.getText();
    System.out.println("Copyright: "+variable);
    if(variable.contains("Please note that any notice or
counter-noticet"))
    {

```

```

        System.out.println("The validate line is present in
Copyright");
    }else {
        System.out.println("presenting the validation
wrongly");
    }
    Thread.sleep(2000);
}
@Test(priority=13)
public void fnCalifornia_Policy() throws InterruptedException
{
    WebElement CaliforniaPolicy =
driver.findElement(By.xpath("//a[@href='https://www.linkedin.c
om/legal/california-privacy-disclosure']"));
    highLighterMethod(driver,CaliforniaPolicy);
    CaliforniaPolicy.click();
    WebElement California =
driver.findElement(By.xpath("//*[@id=\"component-
container\"]/div[2]/div/p[2]"));
    highLighterMethod(driver,California);
    String content =
California.getText();System.out.println("California: "+content);
    if(content.contains("This notice describes the rights of
Californians"))
    {
        System.out.println("The validate line is present in
California");
    }else {
        System.out.println("presenting the validation
wrongly");
    }
    Thread.sleep(2000);
}
private static void highLighterMethod(WebDriver driver,
WebElement LinkedIn) {
    JavascriptExecutor js = (JavascriptExecutor) driver;
    js.executeScript("arguments[0].setAttribute('style',
'background: yellow; border: 2px solid red;');", LinkedIn);
}

```

```
}  
@Test(priority=15)  
    public void fnclose() {  
        //close chrome  
        driver.quit();  
  
        System.out.println("All test completed");  
    }  
  
}
```

REFERENCES

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