

INTERDISCIPLINARY PROJECT 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

Anvesh N

(Reg. No.39120012)



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

APRIL 2022



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This is to certify that this Project Report is the bonafide work of **Anvesh N (Reg No. 39120012)** 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.Y.BEVISH JINILA M.E., Ph.D.,

HEAD OF THE DEPARTMENT

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

Submitted for Viva voice Examination held on _____

Internal Examiner

External Examiner

DECLARATION

I **Anvesh N (Reg No:39120012)** 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.Y.BEVISH JINILA 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.Y.BEVISH JINILA 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: JS02SATC017

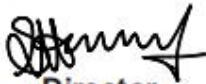
JS Software Testing Solution Centre

CERTIFICATE OF COMPLETION

This certificate is presented to

N. ANVESH

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 support Java without the need for recompilation.

- **Eclipse**

Eclipse is an integrated development environment (IDE) used in computer programming. 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 languages.

- **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.

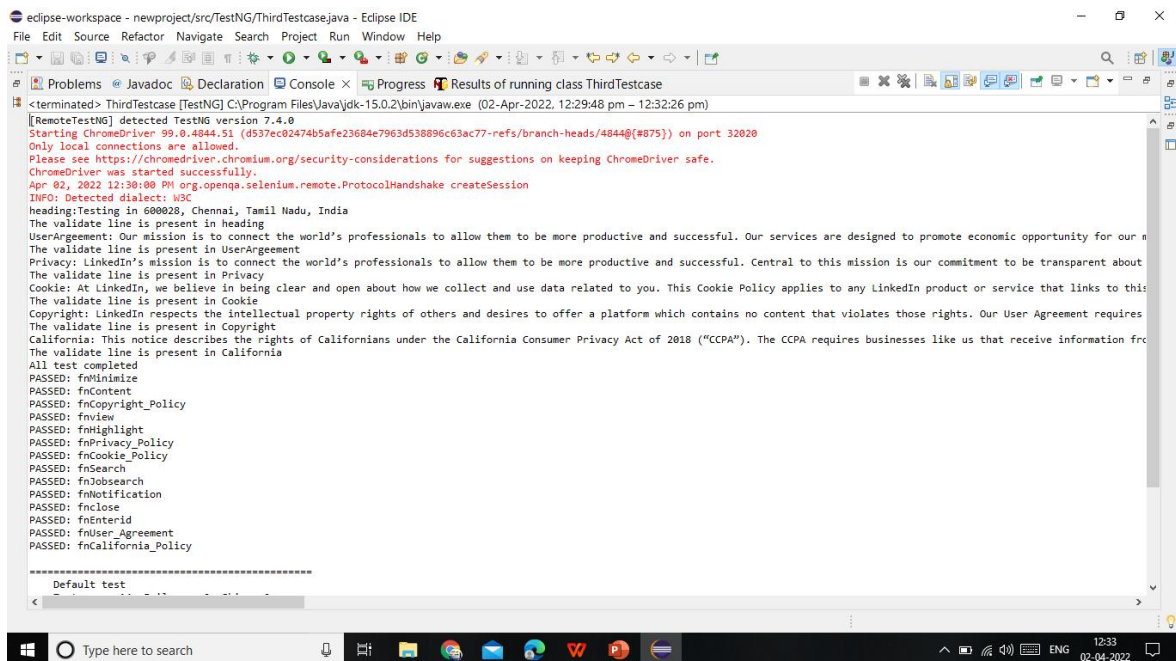
- **JIRA**

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

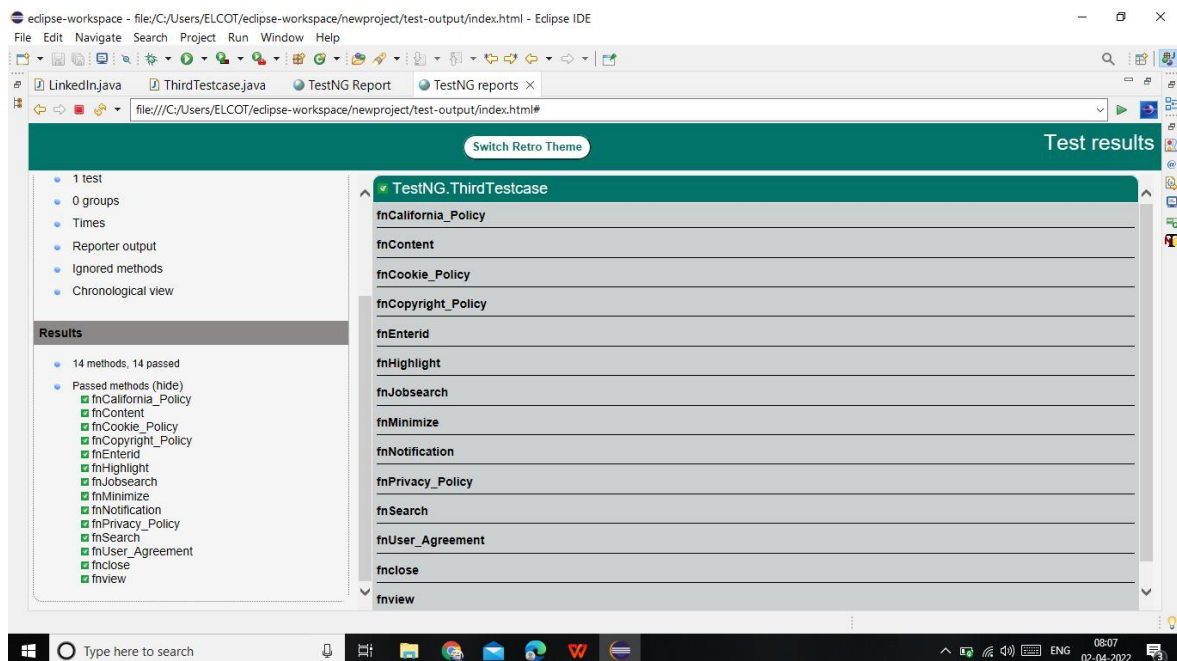
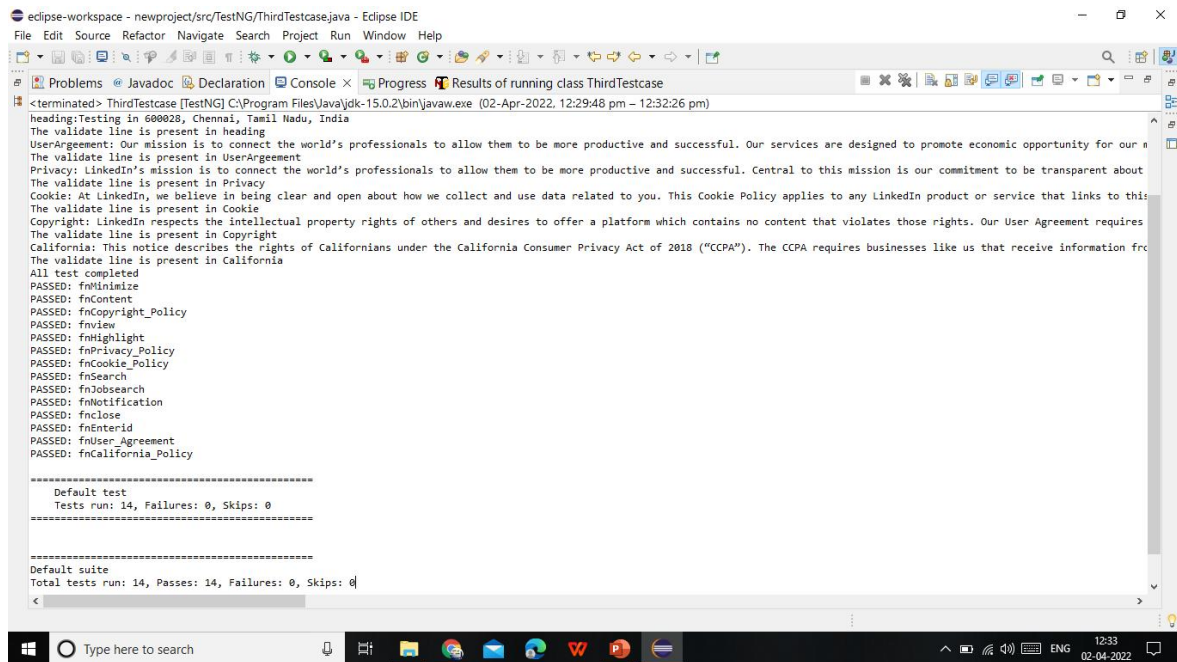
Using TestNG, successfully launched the browser and the Social Network, logged into terms & conditions, the valid code executed successfully. All testcases are passed.



```
edipse-workspace - newproject/src/TestNG/ThirdTestcase.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

[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 a
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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
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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 fr
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
```



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

File Edit Navigate Search Project Run Window Help

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	inCalifornia_Policy	1648866948306	3499
	inCartoon	1648866908722	953
	inCasting_Policy	1648866940320	4087
	inCartoon_Policy	1648866944411	3888
	inLegend	1648866850196	2324
	inBookHobby	1648866828605	21587
	inHobbyRank	1648866897938	10777
	inMinimizing	1648866852528	45394
	inSouthRoom	1648866909680	1993
	inDiversity_Policy	1648866934245	6060
	inSearch	1648866813435	15098
	inUser_Agreement	1648866925208	9023
	inBlog	1648866951820	5470
	inView	1648866911687	13505

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Chrome is being controlled by automated test software.

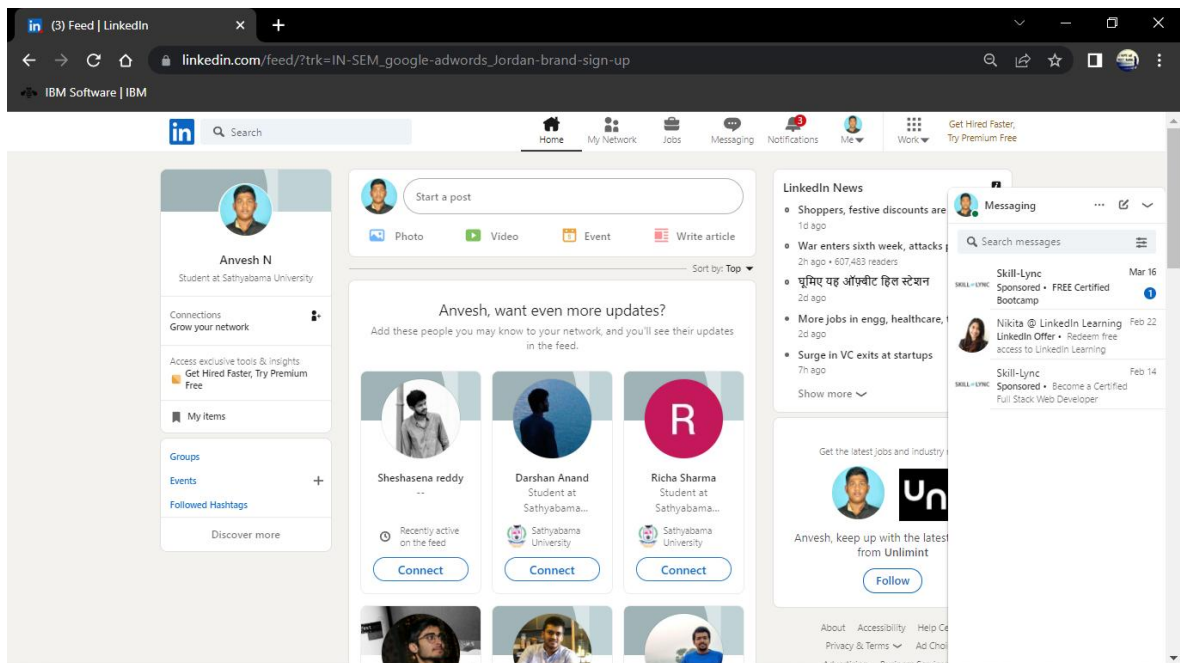
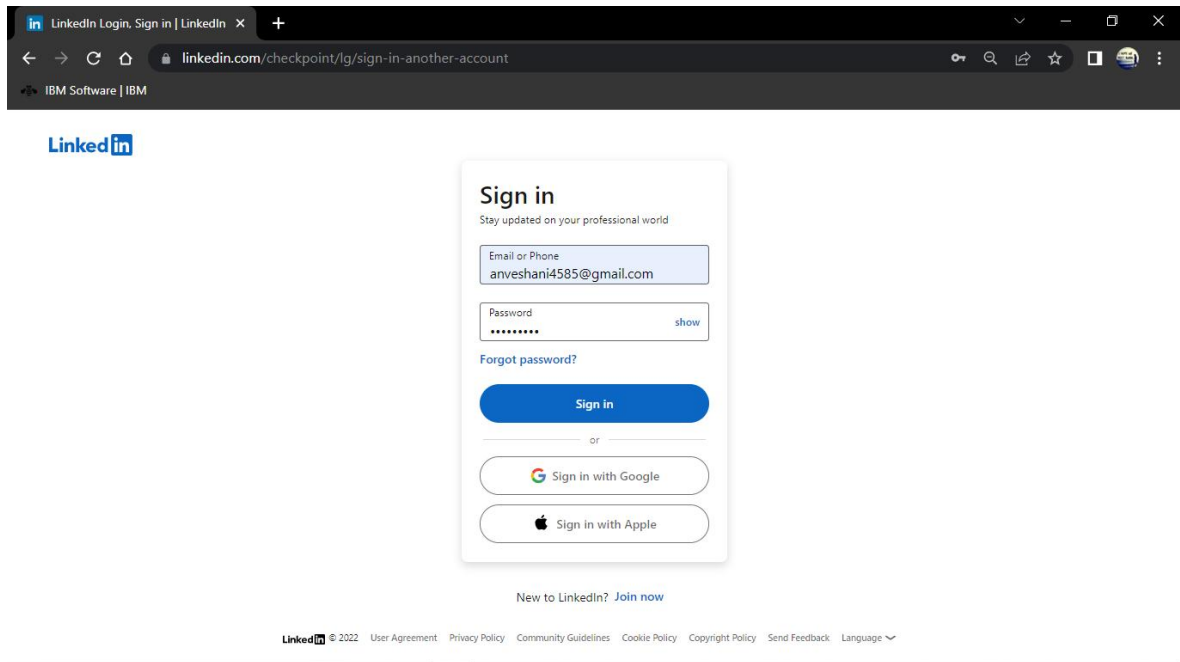
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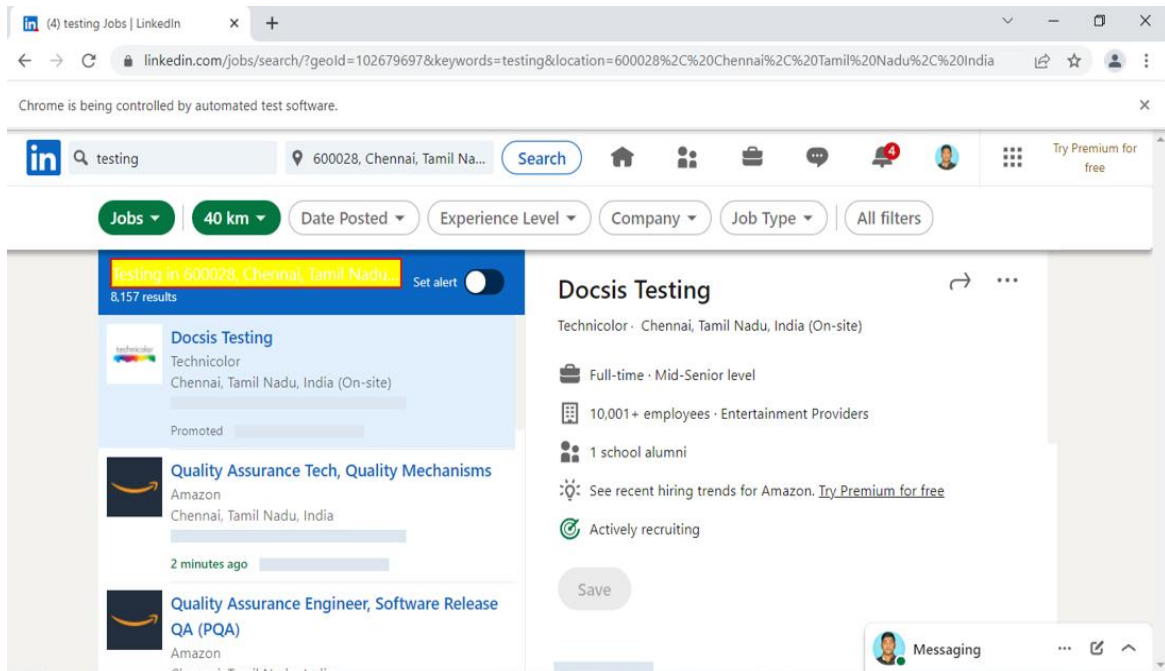
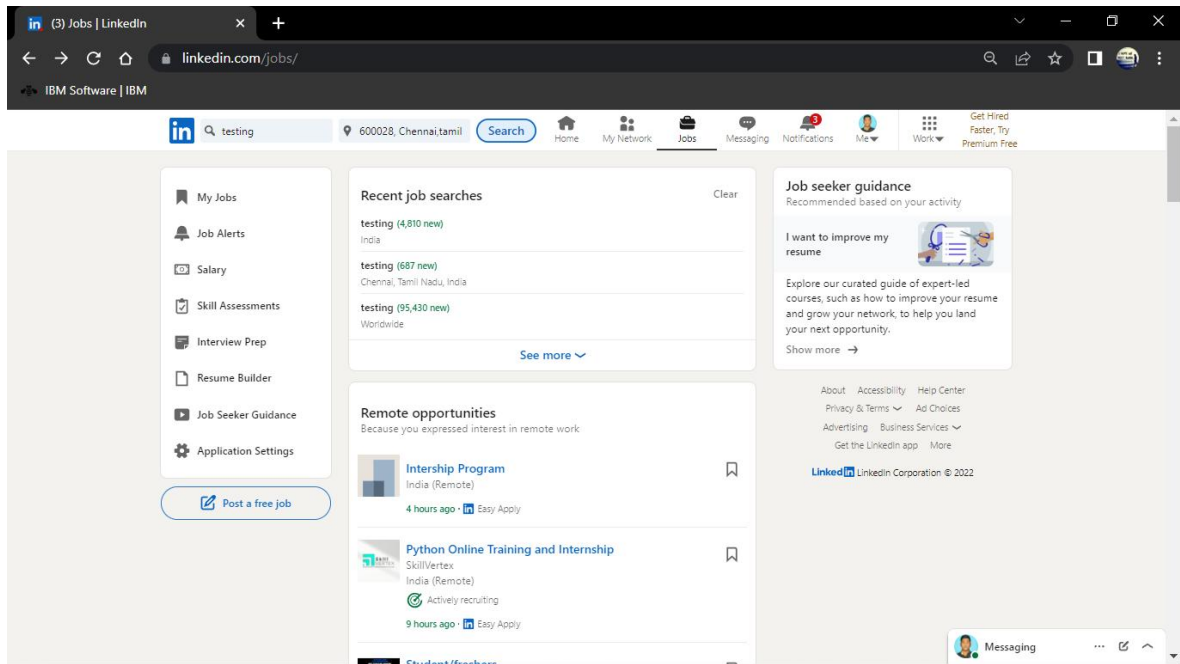
Welcome to your professional community

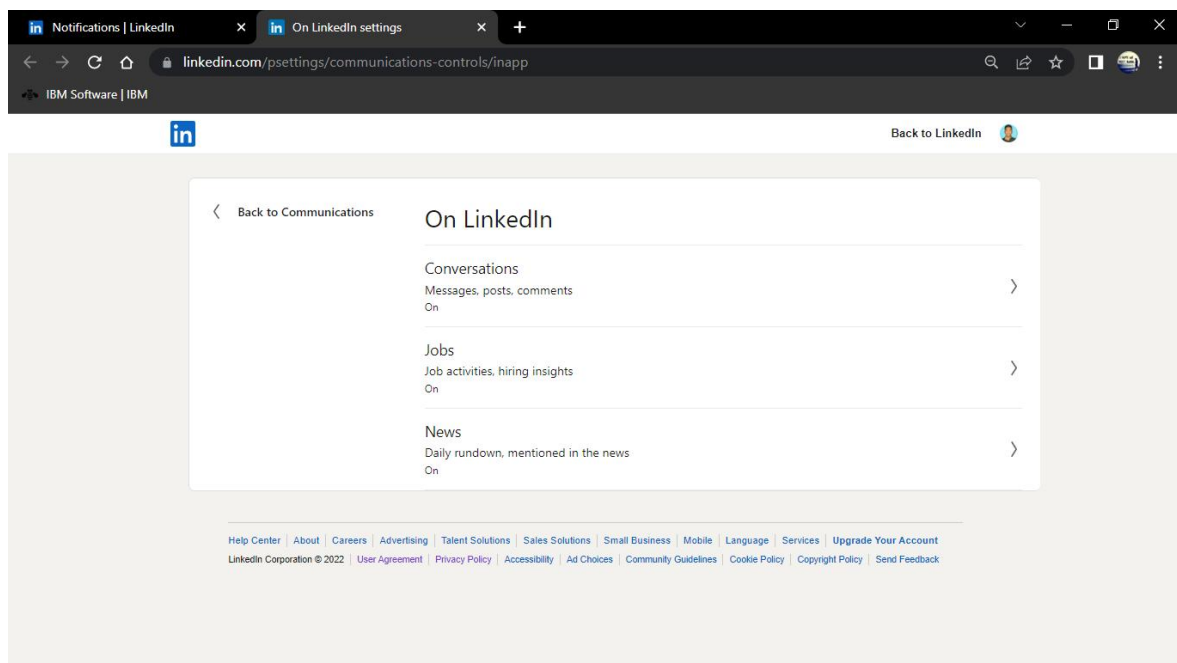
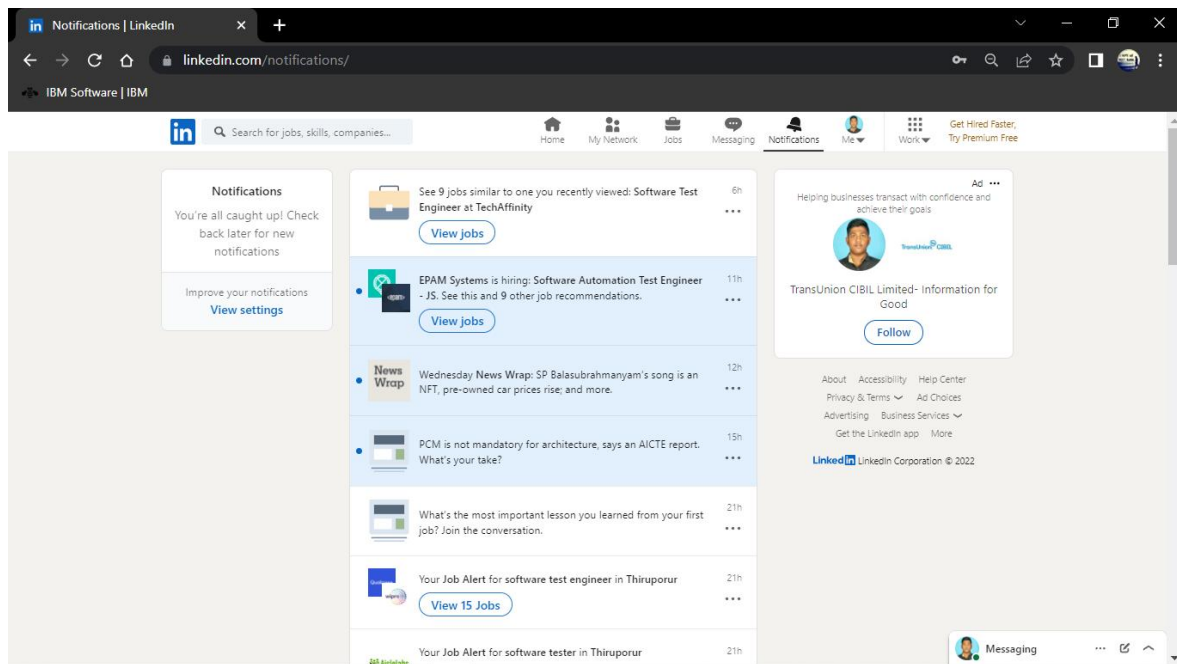
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Find a person you know >

Learn a new skill >







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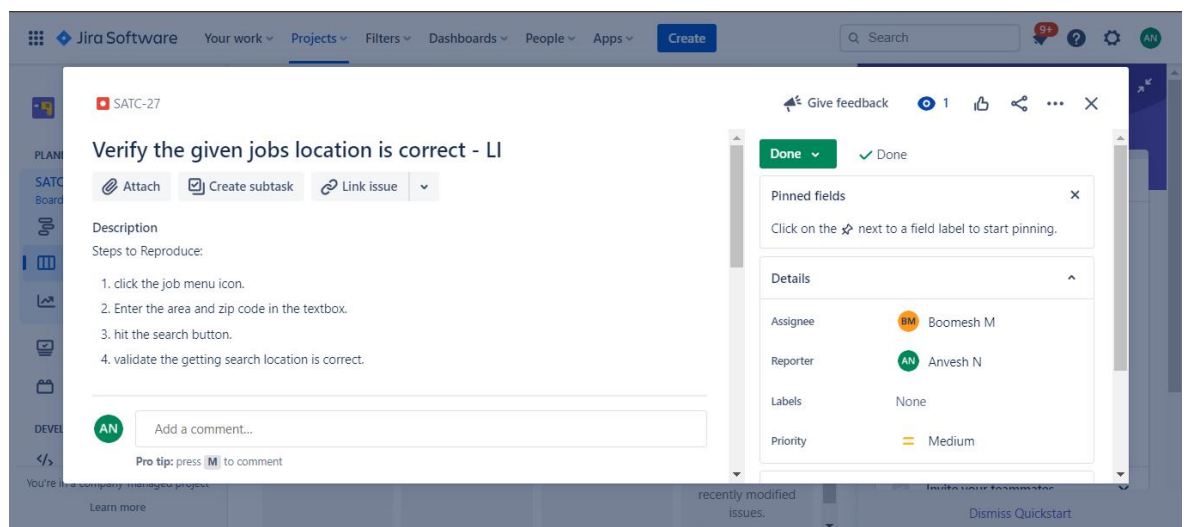
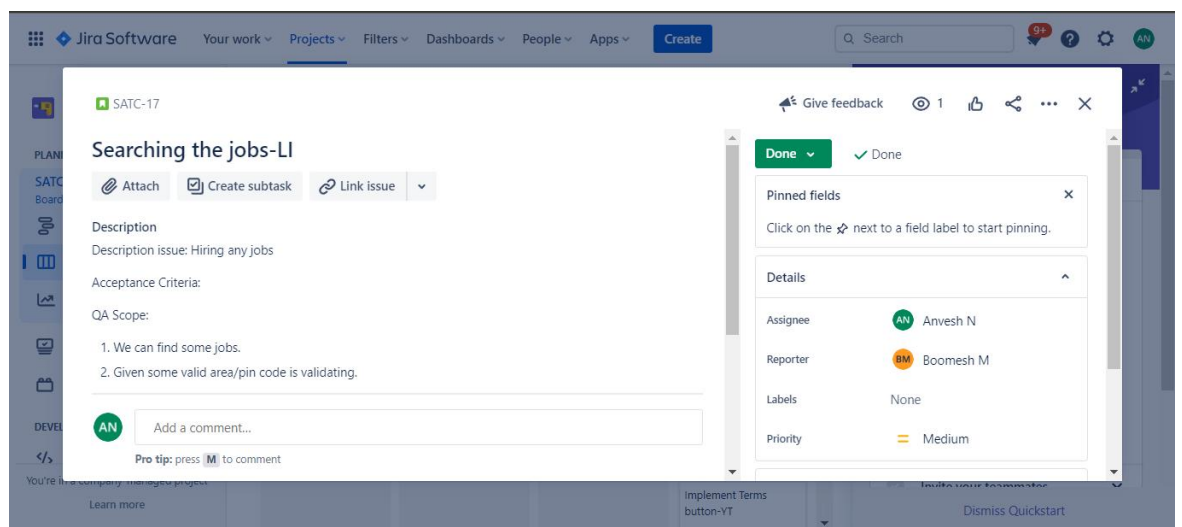
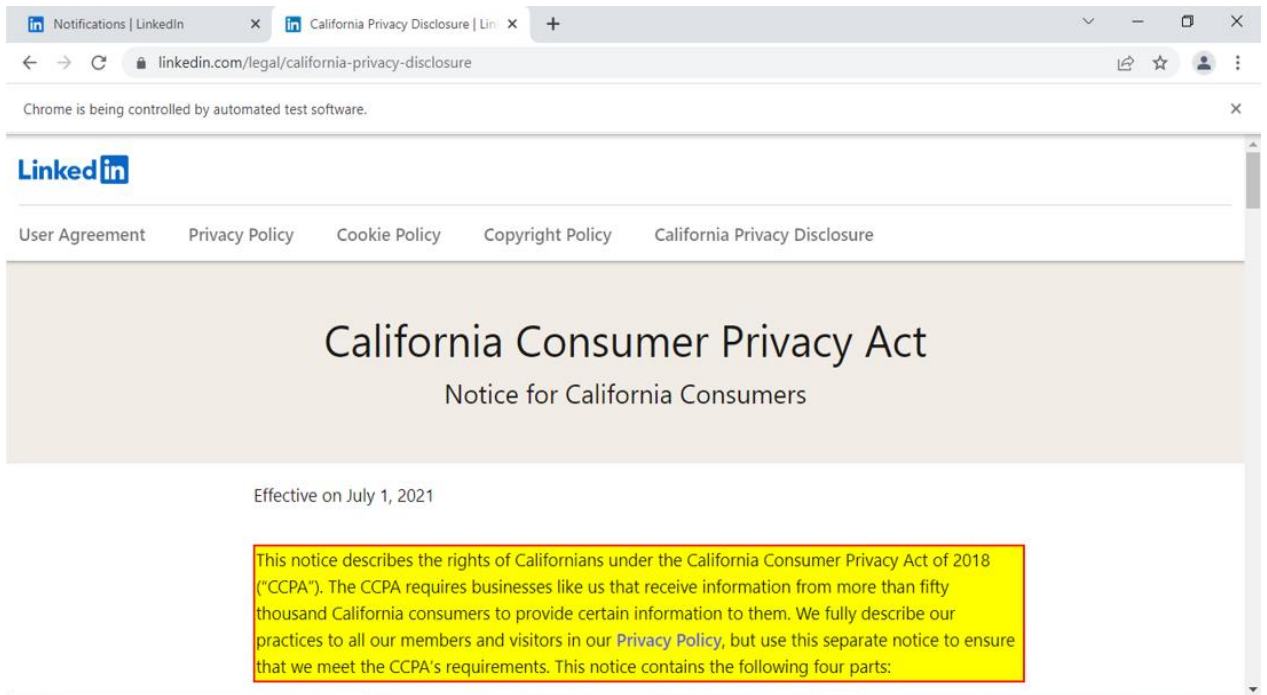
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Jira Software Your work Projects Filters Dashboards People Apps Create

Q Search 9+ ?

SATC-27

Expected Result: getting search location is correct.

Actual Result: getting search location is not correct.

Environment
None

Attachments (1)

AN Add a comment...
Pro tip: press **M** to comment

Give feedback 1

Click on the ✨ next to a field label to start pinning.

Details

Assignee **BM** Boomesh M
Reporter **AN** Anvesh N
Labels None
Priority **Medium**

More fields Original estimate, Time tracking, Epic Link, ...

Created 2 days ago Configure

Jira Software Your work Projects Filters Dashboards People Apps Create

Q Search 9+ ?

SATC-22

Implement User Agreement - LI

Attach Create subtask Link issue

Description
Description issue: Implementing User Agreement.

Acceptance Criteria:

QA scope:

1. Click the User agreement it will redirect to new page.
2. Validate the all 5 Terms:

AN Add a comment...
Pro tip: press **M** to comment

Give feedback 1

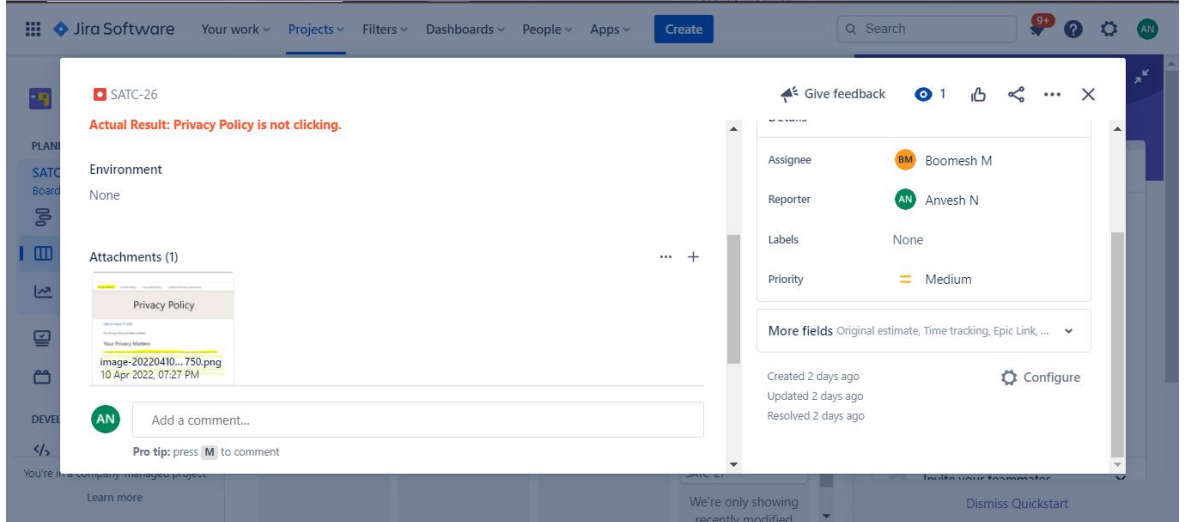
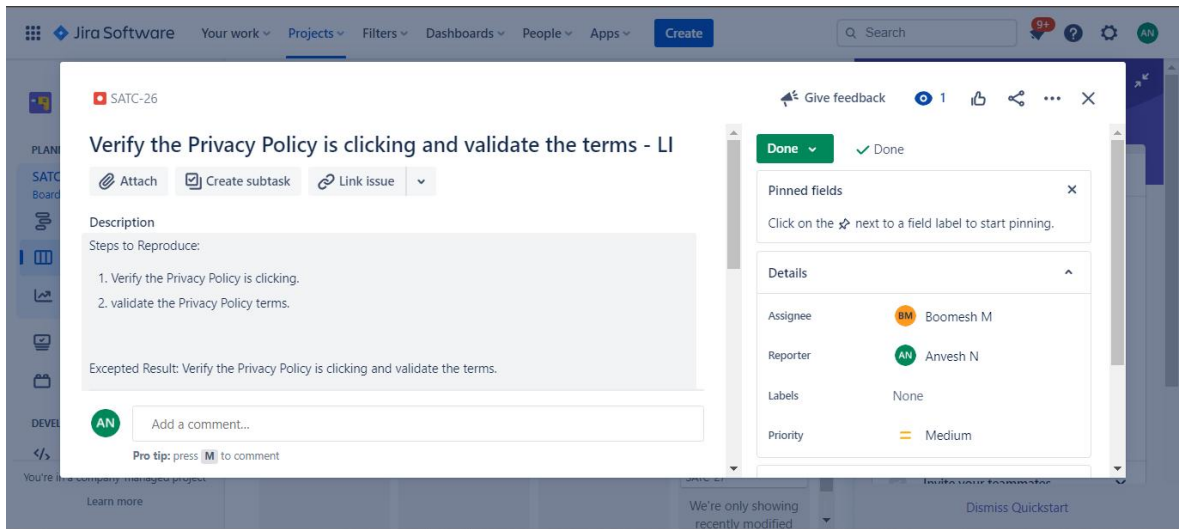
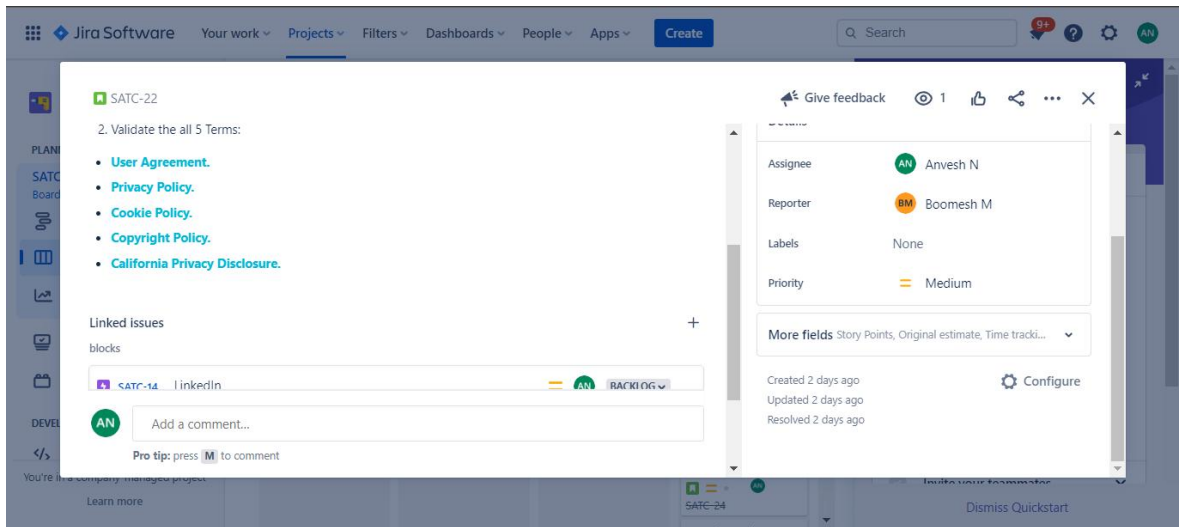
Done Done

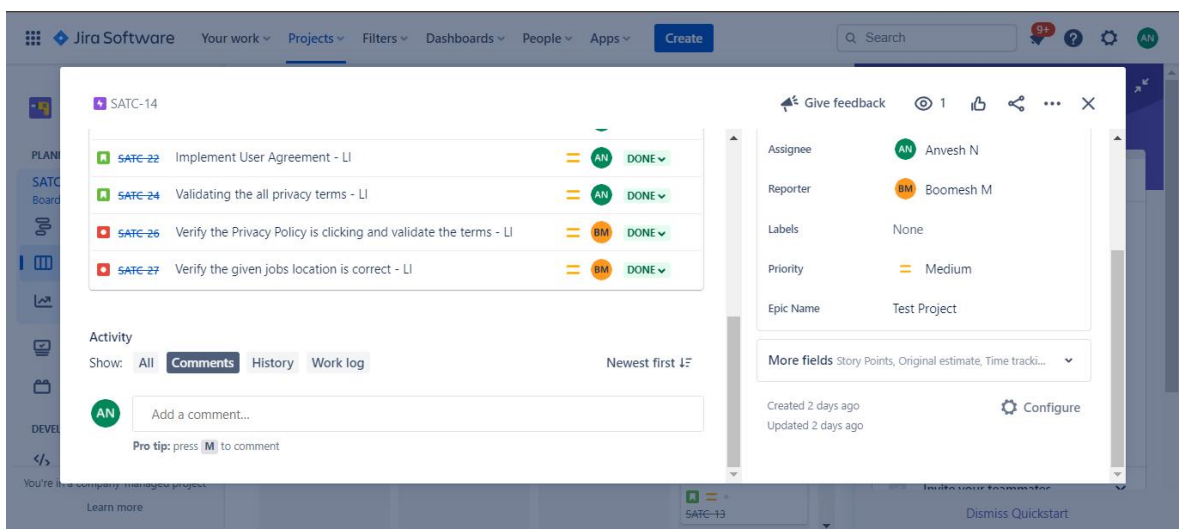
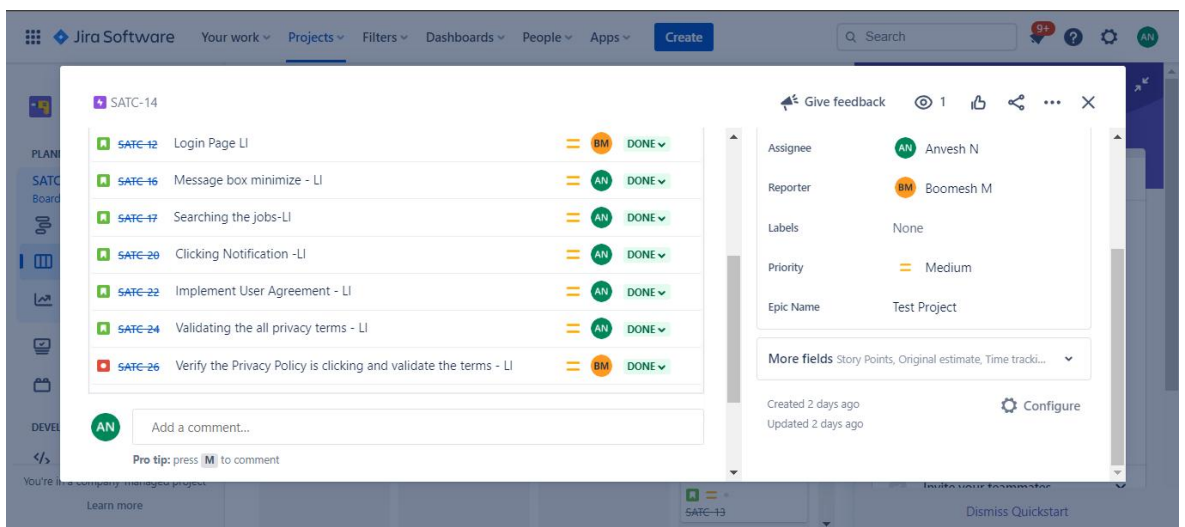
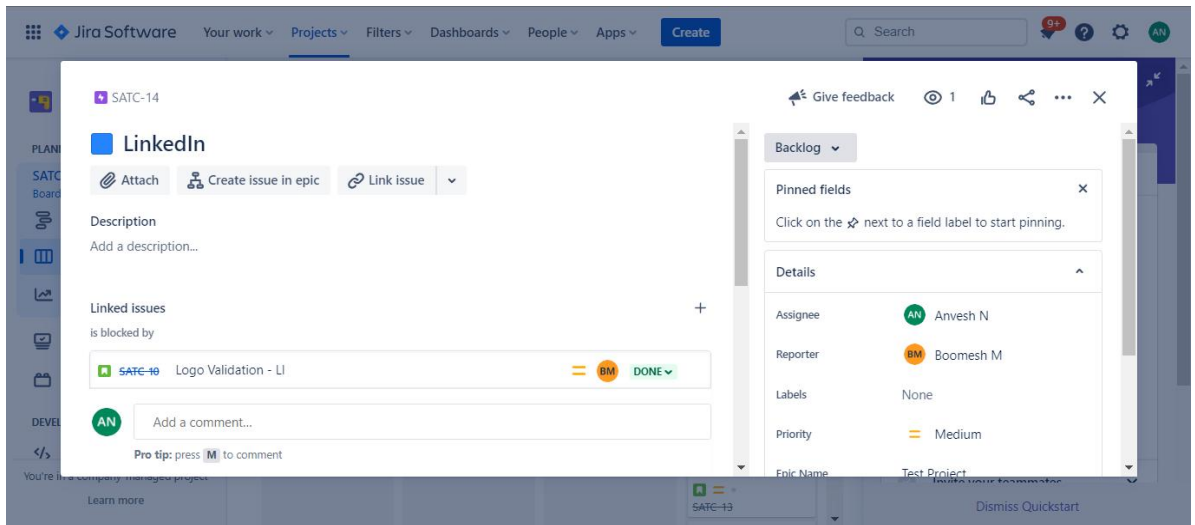
Pinned fields

Click on the ✨ next to a field label to start pinning.

Details

Assignee **AN** Anvesh N
Reporter **BM** Boomesh M
Labels None
Priority **Medium**





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.

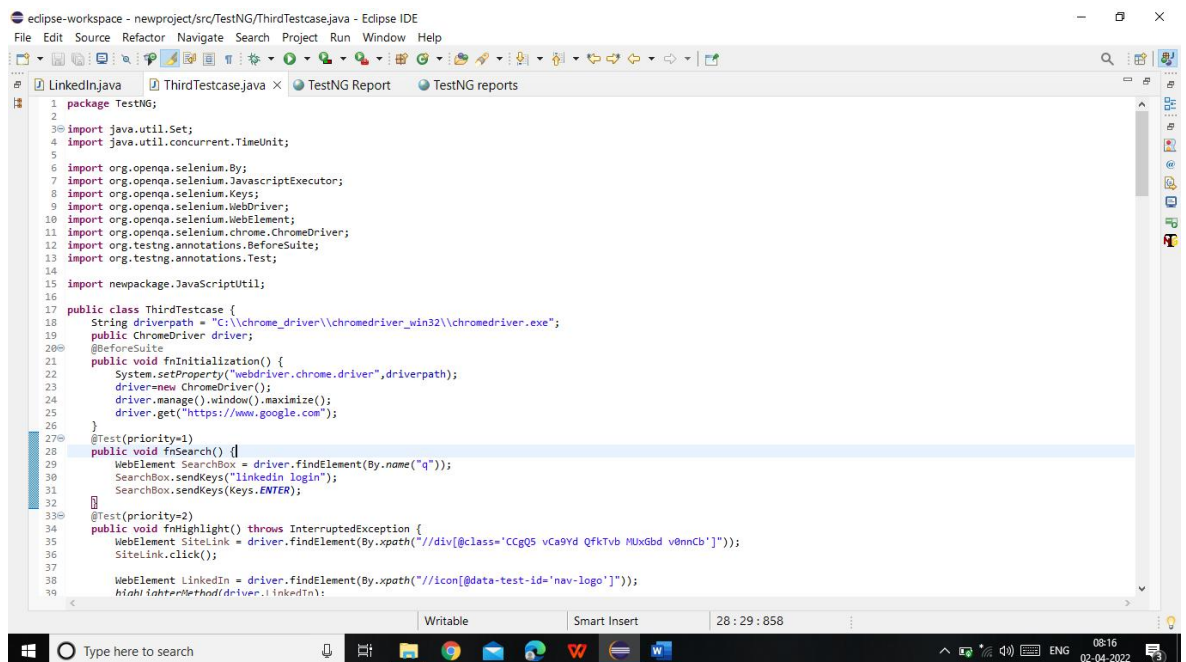
This project can be further implemented by testing the Social

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.

Cucumber is a testing approach which supports Behavior Driven Development (BDD).

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 MUxGbd v0nncb']"));
36         SiteLink.click();
37
38         WebElement LinkedIn = driver.findElement(By.xpath("//icon[@data-test-id='nav-logo']"));
39         hihi tahterMethod(driver, LinkedIn);
40     }
41 }
```

```

eclipse-workspace - newproject/src/TestNG/ThirdTestcase.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

ThirdTestcase.java
38 WebElement LinkedIn = driver.findElement(By.xpath("//icon[@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("anveshani4585@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     highlighterMethod(driver,Signin);
55     Signin.click();
56     WebElement Messaging = driver.findElement(By.xpath("//div[@id='msg-overlay']/div[1]/header/div[2]"));
57     Messaging.click();
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
65     WebElement keyword = driver.findElement(By.xpath("//input[@class='jobs-search-box_text-input jobs-search-box_keyboard-text-input']"));
66     keyword.sendKeys("testing");
67     WebElement zipcode = driver.findElement(By.xpath("//input[@aria-label='City, state, or zip code']"));
68     zipcode.sendKeys("600028");
69     WebElement search = driver.findElement(By.xpath("//button[@type='button']"));
70     search.click();
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

```

```

76
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 {

```

```
eclipse-workspace - newproject/src/TestNG/ThirdTestcase.java - Eclipse IDE
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@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.com/legal/privacy-policy']"));
    highlighterMethod(driver, PrivacyPolicy);
    PrivacyPolicy.click();
    WebElement privacy = driver.findElement(By.xpath("//*[id='keytermsintro']/div/p[1]/a/em"));
    JavaScriptUtil.scrollToView(privacy, driver);
    WebElement Privacy = driver.findElement(By.xpath("//*[id='keytermsintro']/div/p[3]"));
    highlighterMethod(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);
}

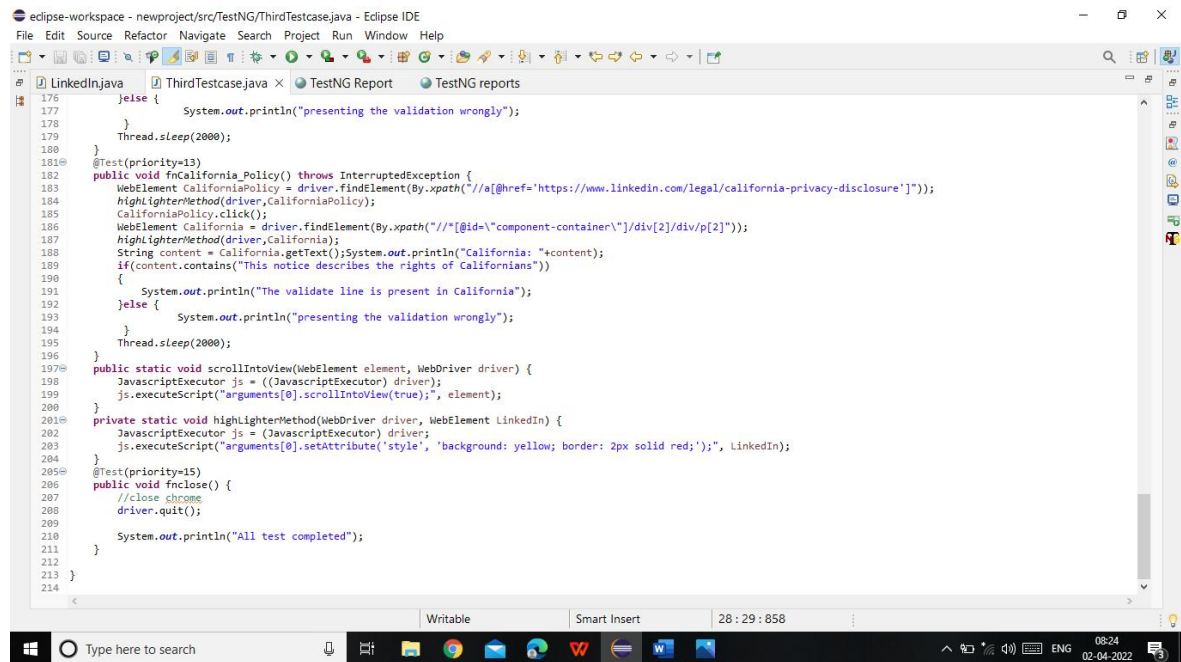
@Test(priority=11)
```

```
eclipse-workspace - newproject/src/TestNG/ThirdTestcase.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

@Test(priority=11)
public void fnCookie_Policy() throws InterruptedException {
    WebElement CookiePolicy = driver.findElement(By.xpath("//a[@href='https://www.linkedin.com/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.com/legal/copyright-policy']"));
    highlighterMethod(driver, CopyrightPolicy);
    CopyrightPolicy.click();
    WebElement Copyright = driver.findElement(By.xpath("//*[id='component-container']/div[2]/div/p/em"));
    JavaScriptUtil.scrollToView(Copyright, driver);
    String variable = Copyright.getText();
    System.out.println("Copyright: "+variable);
    if(variable.contains("Please note that any notice or counter-notice"))
    {
        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 {
```



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;

import newpackage.JavaScriptUtil;

public class ThirdTestcase {

String driverpath =

"C:\\chrome_driver\\chromedriver_win32\\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("anveshani4585@gmail.com");
    WebElement Password =
driver.findElement(By.id("password"));
    Password.sendKeys("@nvesh143");
}
@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.com/legal/privacy-policy']"));

```

```

        highLighterMethod(driver,PrivacyPolicy);
        PrivacyPolicy.click();
        WebElement privacy =
driver.findElement(By.xpath("//*[@id=\"keytermsintro\"]/div/p[1]/a/em"))
;
        JavaScriptUtil.scrollToView(privacy, driver);
        WebElement Privacy =
driver.findElement(By.xpath("//*[@id=\"keytermsintro\"]/div/p[3]"));
        highLighterMethod(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.com/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.com/legal/copyright-policy']"));

```

```

        highLighterMethod(driver, CopyrightPolicy);
        CopyrightPolicy.click();
        WebElement Copyright =
driver.findElement(By.xpath("//*[@id=\"component-
container\"]/div[2]/div/p/em"));
        JavaScriptUtil.scrollToView(Copyright, driver);
        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.com/lega
l/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);
    }
    public static void scrollToView(WebElement element,
WebDriver driver) {
        JavascriptExecutor js = ((JavascriptExecutor) driver);

```

```

        js.executeScript("arguments[0].scrollIntoView(true);",
element);
    }
    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

- <https://www.w3schools.in/software-testing/overview/>
- <https://www.javatpoint.com/automation-testing-tool>
- <https://www.testbytes.net/blog/automation-testing-tutorial/>
- <https://www.guru99.com/>