

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

LAKSHMINARAYANA.K

(Reg. No.39120060)



DEPARTMENT OF INFORMATION TECHNOLOGY

SCHOOL OF COMPUTING

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

JEPPIAAR NAGAR, RAJIV GANDHI SALAI,

CHENNAI - 600 119

NOVEMBER 2021



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

Accredited with "A" Grade by NAAC

Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600 119.

Phone: 044 - 2450 3150 / 51 / 52 / 54 / 55 Fax: 044 - 2450 2344

www.sathyabama.ac.in



SCHOOL OF COMPUTING

BONAFIDE CERTIFICATE

This is to certify that this Project Report is the bonafide work of LAKSHMINARAYANA.K (Reg No. 39120060) and who carried out the project entitled “Automation Testing Flipkart Application” under our supervision from Feb 2022 to April 2022.

INTERNAL GUIDE

Dr.Bevis Jinila.Y,

HEAD OF THE DEPARTMENT

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

Submitted for Viva voce Examination held on _____

Internal Examiner

External Examiner

DECLARATION

I LakshmiNarayana.K (**Reg No:39120060**) hereby declare that the Project Report entitled “**Automation Testing Flipkart Application**” done by me under the guidance of **Dr.Bevish Jinila.Y**, 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 Computer Science and Engineering 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. Bevish Jinila.Y** 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: JS02SATC033

JS Software Testing Solution Centre

CERTIFICATE OF COMPLETION

This certificate is presented to

K. Lakshminarayana

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.

TABLE OF CONTENTS

CHAPTER NO.	TITLE	PG.NO
	ABSTRACT	i
1.	INTRODUCTION 1.1 GENERAL 1.2 OUTLINE OF THE PROJECT 1.3 ORGANIZATION OF THE REPORT	 1 1 1
2.	AIM 2.1 AIM 2.2 PROBLEM STATEMENT 2.3 LITERATURE REVIEW 2.4 SCOPE	 2 2 2-3 4
3.	SYSTEM IMPLEMENTATION 4.1 REQUIREMENTS 4.2 ROLE OF LINUX 4.3 RESULTS	 5 6 7

4.	CONCLUSION AND FUTURE WORK 4.1 CONCLUSION 4.2 FUTURE WORK	 13 13
	REFERENCES APPENDIX A. SCREEN SHOTS B. SOURCE CODE	20 14-16 17-19

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 Flipkark 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 Flipkark Application, the given user id is valid or invalid. If the provided user ID and password is incorrect, it gives as invalid. If the provided user Id and password is correct, it gets directed to the user account-> profile-> edit profile-> description. The given statement will be printed in the description box.

2.2 PROBLEM STATEMENT

The problem statement, is to test the Flipkark Application 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 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 have used the core constructs: perceived ease of use, perceived usefulness of TAM. Some research studies considered demographic factors of acceptance of . 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 . In this study shows the different relationships among variables such as Perceived Ease of Use has a significant positive influence on perceived usefulness of Perceived usefulness and Perceived Ease of Use has a significant positive influence on attitude toward using Flipkart,

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 LMS systems will be accepted and the higher a person's age, the more likely he/she is to perceive a new 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 Learning Management System 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

- Eclipse
- TestNG
- Java

3.2 ROLE OF 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 complied 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.

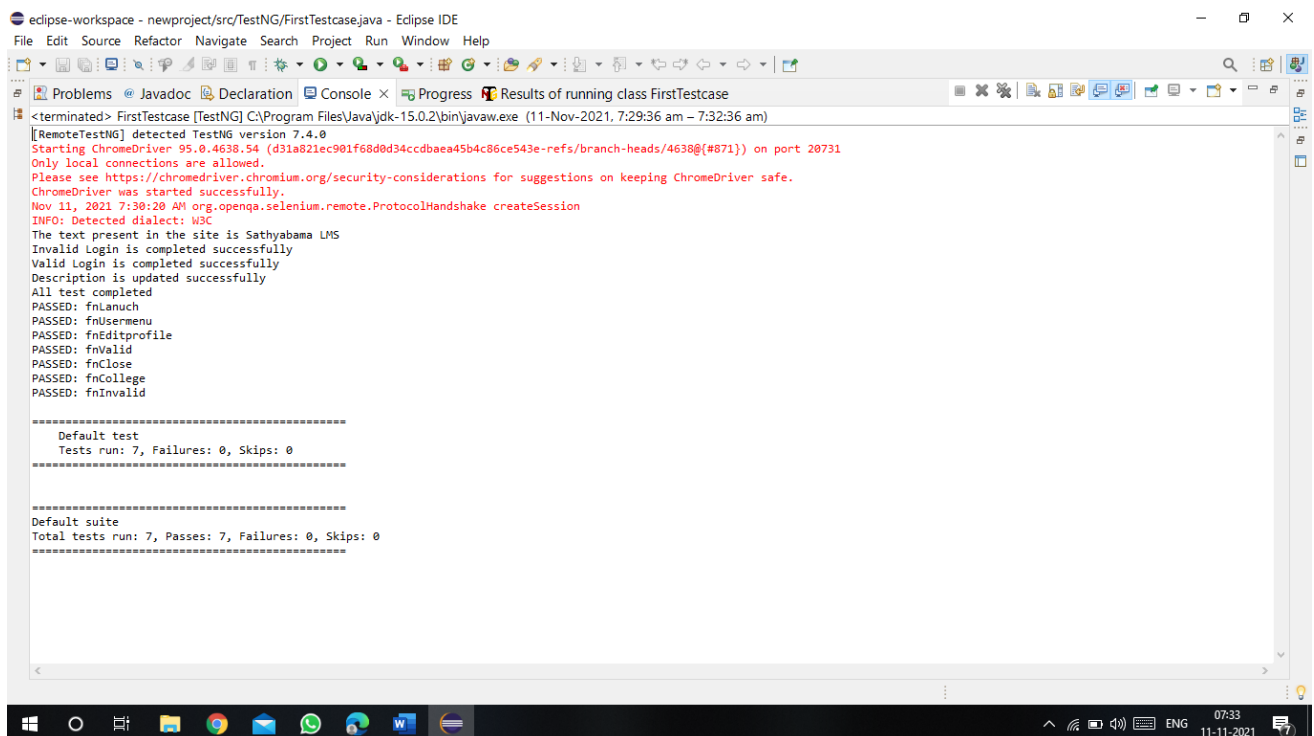
- TestNG

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.

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.

3.2 RESULTS AND DISCUSSION

Using TestNG, successfully launched the browser and the Learning Management System, logged into description, the valid code executed successfully.
All testcases are passed.

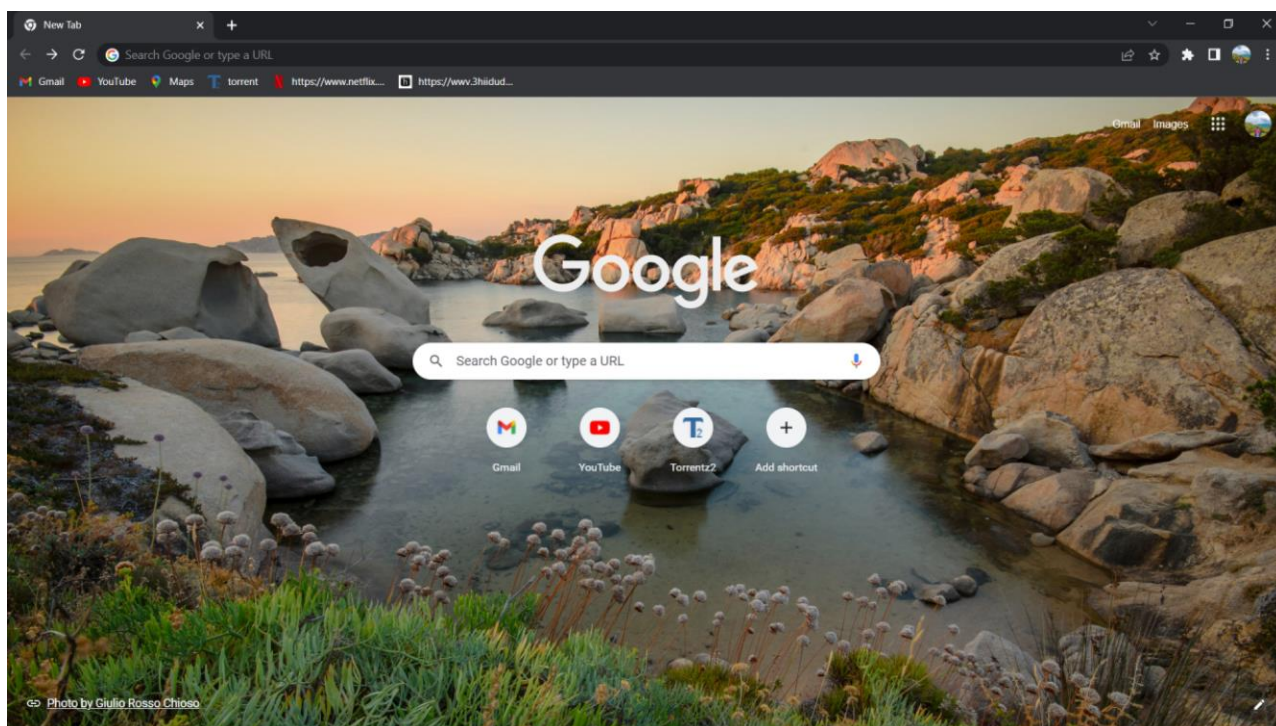


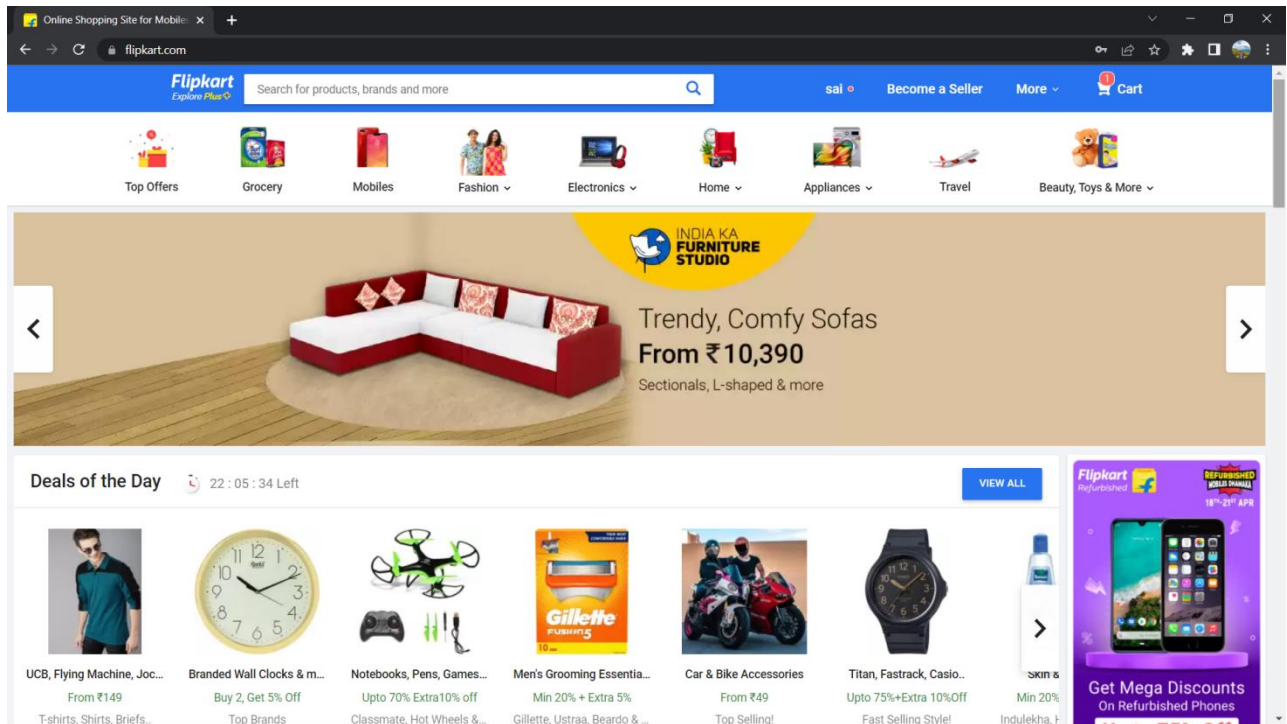
```
edipse-workspace - newproject/src/TestNG/FirstTestcase.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

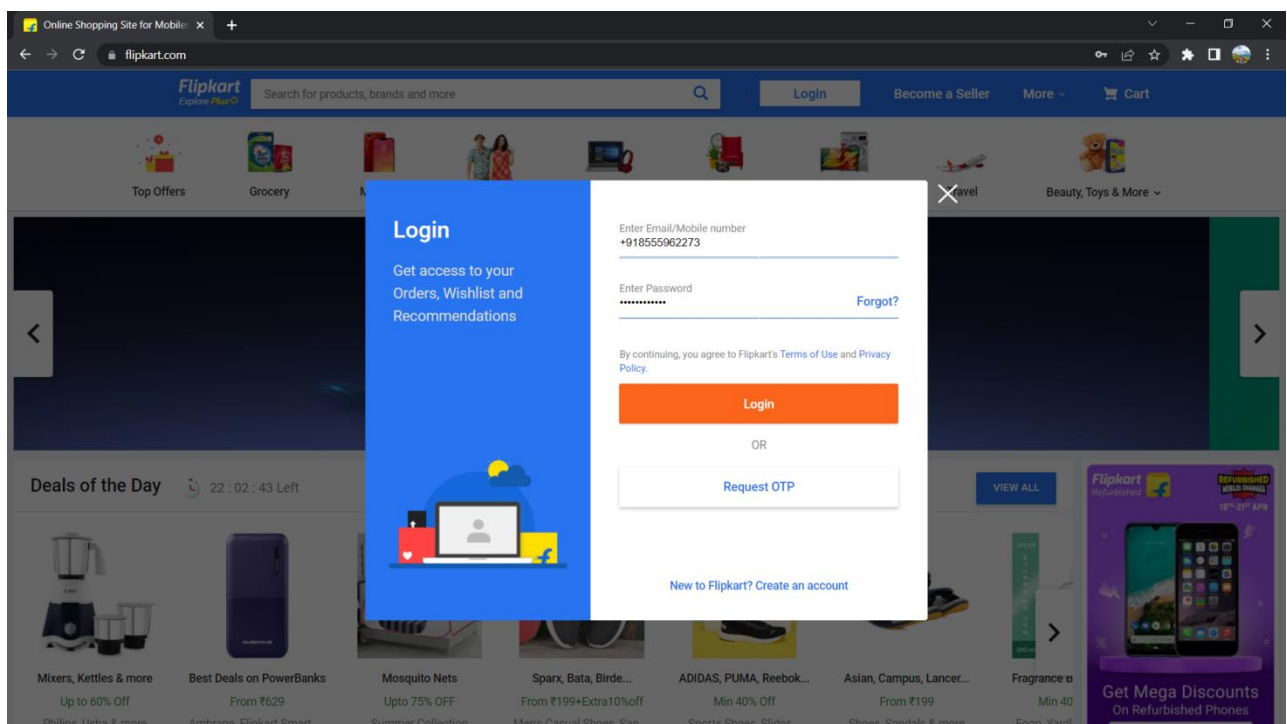
<terminated> FirstTestcase [TestNG] C:\Program Files\Java\jdk-15.0.2\bin\javaw.exe (11-Nov-2021, 7:29:36 am - 7:32:36 am)
[RemoteTestNG] detected TestNG version 7.4.0
Starting ChromeDriver 95.0.4638.54 (d31a821ec901f68d0d34ccdbaea45b4c86ce543e-refs/branch-heads/4638@{#871}) on port 20731
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Nov 11, 2021 7:30:20 AM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
The text present in the site is Sathyabama LMS
Invalid Login is completed successfully
Valid Login is completed successfully
Description is updated successfully
All test completed
PASSED: fnLanuch
PASSED: fnUsermenu
PASSED: fnEditprofile
PASSED: fnValid
PASSED: fnClose
PASSED: fnCollege
PASSED: fnInvalid

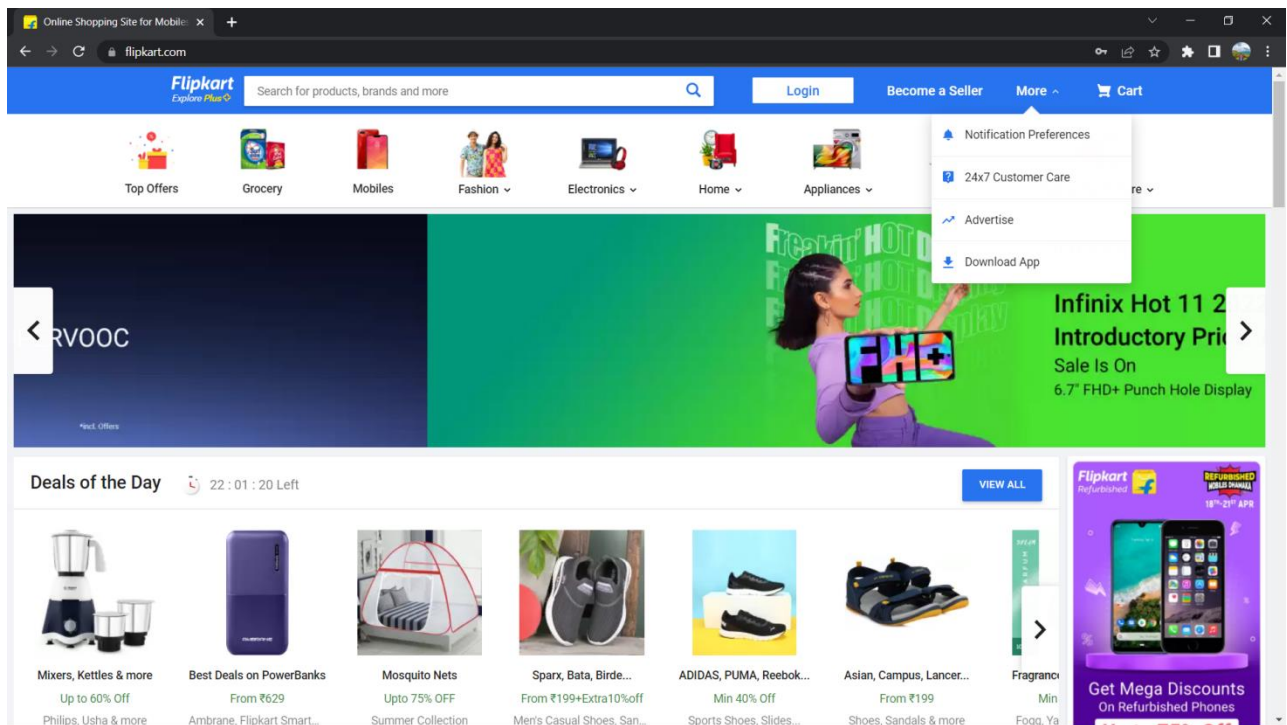
=====
Default test
Tests run: 7, Failures: 0, Skips: 0
=====

Default suite
Total tests run: 7, Passes: 7, Failures: 0, Skips: 0
=====
```









Terms Store Online · Buy Terms · ×

flipkart.com/pages/terms?otracker=undefined_footer_navlinks

flipkartExplore Plus

Search for products, brands and more

Sal

Become a Seller

More

Cart

Electronics

TVs & Appliances

Men

Women

Baby & Kids

Home & Furniture

Sports, Books & More

Flights

Offer Zone

Flipkart Terms of Use

This document is an electronic record in terms of Information Technology Act, 2000 and rules there under as applicable and the amended provisions pertaining to electronic records in various statutes as amended by the Information Technology Act, 2000. This electronic record is generated by a computer system and does not require any physical or digital signatures.

This document is published in accordance with the provisions of Rule 3 (1) of the Information Technology (Intermediaries guidelines) Rules, 2011 that require publishing the rules and regulations, privacy policy and Terms of Use for access or usage of domain name [www.flipkart.com] [www.flipkart.com] ("Website"), including the related mobile site and mobile application (hereinafter referred to as "Platform")

The Platform is owned by Flipkart Internet Private Limited a company incorporated under the Companies Act, 1956 with its registered office at Buildings Alyssa, Begonia & Clover, Embassy Tech Village, Outer Ring Road, Devarabeesanahalli Village, Bengaluru - 560103, Karnataka, India and its branch offices at 2nd Floor, Block F (Flora), Embassy Tech Village, Outer Ring Road, Devarabeesanahalli Village, Bengaluru-560103, Karnataka, India and; 447/C, 12th Main, 4th Block, Koramangala, Bengaluru-560034, Karnataka, India (hereinafter referred to as "Flipkart").

Your use of the Platform and services and tools are governed by the following terms and conditions ("**Terms of Use**") as applicable to the Platform including the applicable policies which are incorporated herein by way of reference. If You transact on the Platform, You shall be subject to the policies that are applicable to the Platform for such transaction. By mere use of the Platform, You shall be contracting with Flipkart Internet Private Limited and these terms and conditions including the policies constitute Your binding obligations, with Flipkart.

For the purpose of these Terms of Use, wherever the context so requires "You" or "User" shall mean any natural or legal person who has agreed to become a buyer on the Platform by providing Registration Data while registering on the Platform as Registered User using the computer systems. Flipkart allows the User to surf the Platform or making purchases without registering on the Platform. The term "We", "Us", "Our" shall mean Flipkart Internet Private Limited.

When You use any of the services provided by Us through the Platform, including but not limited to, (e.g. Product Reviews, Seller Reviews), You will be subject to the rules, guidelines, policies, terms, and conditions applicable to such service, and they shall be deemed to be incorporated into this Terms of Use and shall be considered as part and parcel of this Terms of Use. We reserve the right, at Our sole discretion, to change, modify, add or remove portions of these Terms of Use, at any time without any prior written notice to You. It is Your responsibility to review these Terms of Use periodically for updates / changes. Your continued use of the Platform following the posting of changes will mean that You accept and agree to the revisions. As long as You comply with these Terms of Use, We grant You a personal, non-exclusive, non-transferable, limited privilege to enter and use the Platform.

ACCESSING, BROWSING OR OTHERWISE USING THE SITE INDICATES YOUR AGREEMENT TO ALL THE TERMS AND CONDITIONS UNDER THESE

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.

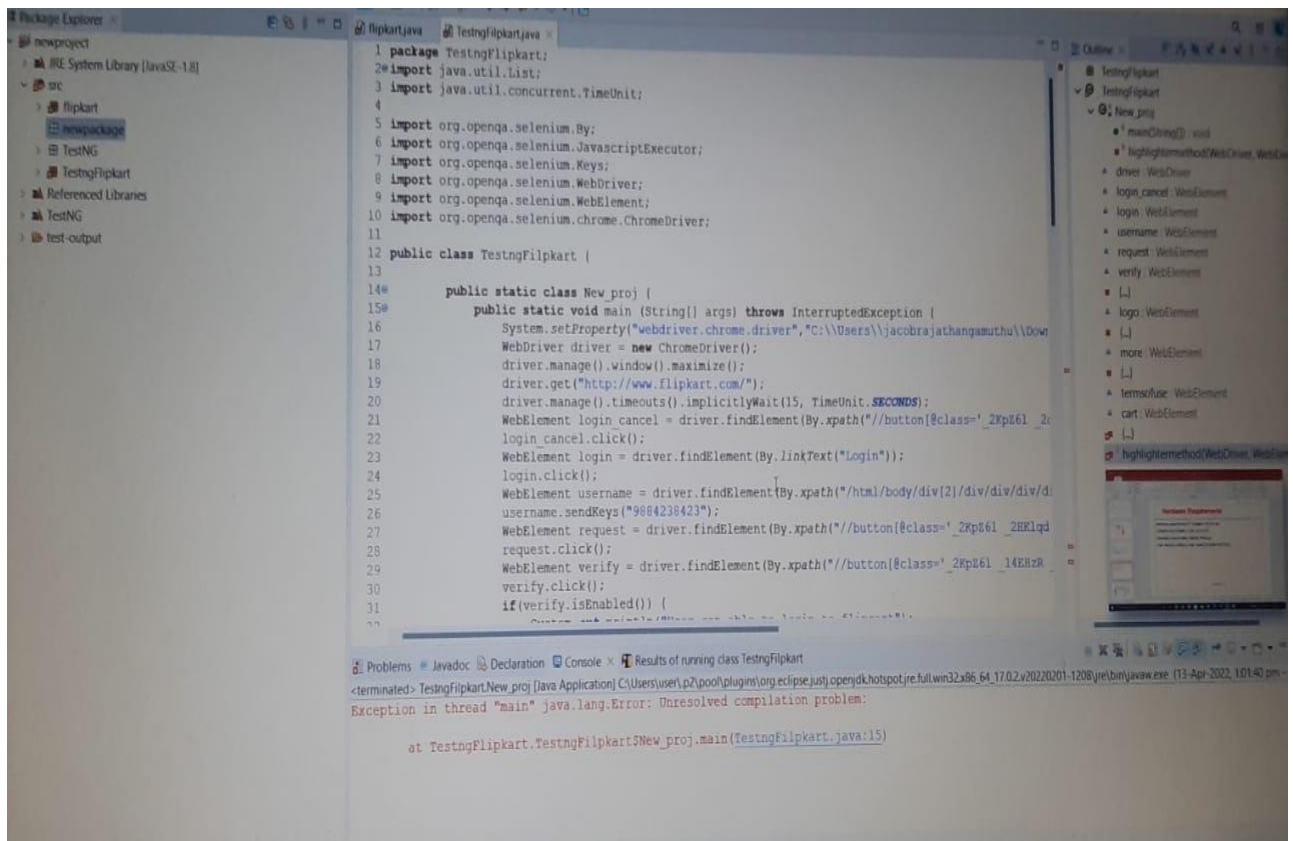
4.2 FUTURE WORK

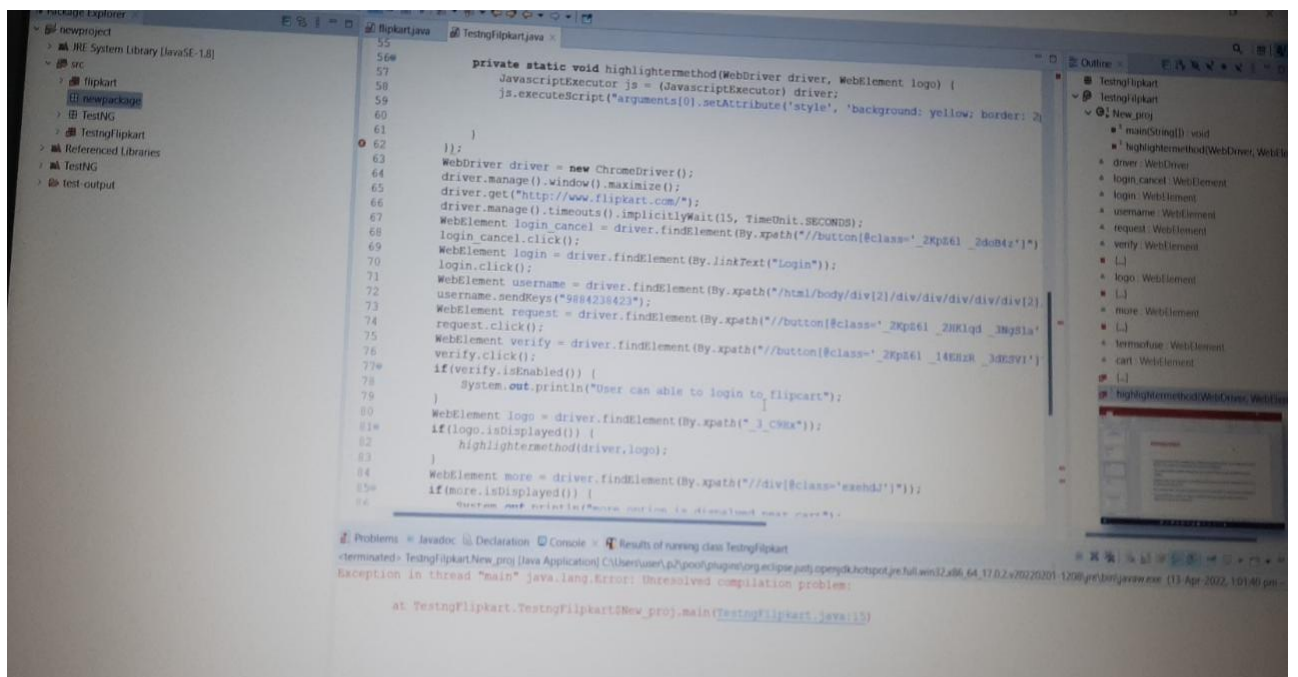
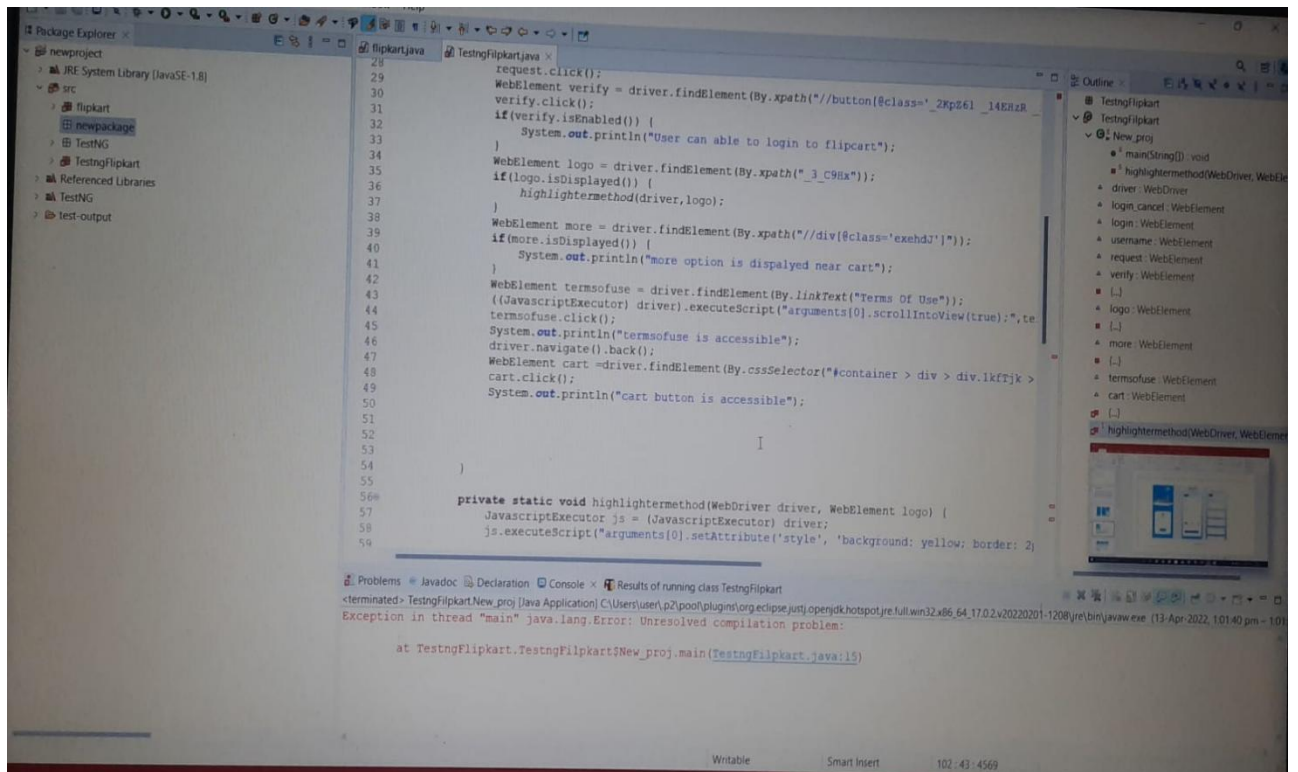
There is a future scope of this facility that many more features such as online lectures video tutorials can be added by teachers as well as online assignments submission facility, a feature of group chat where students can discuss various issues of engineering can be added to this project thus making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

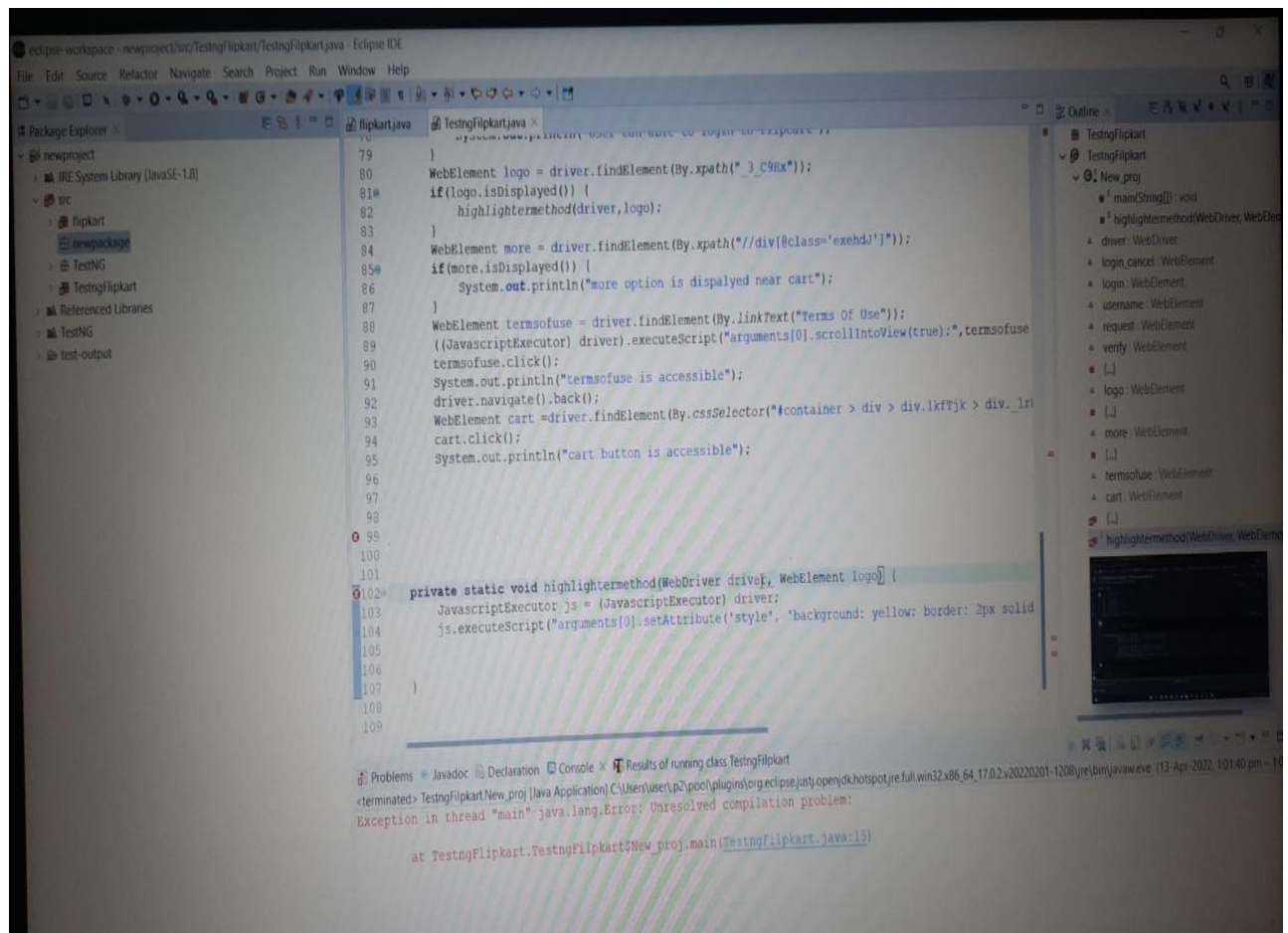
This project can be further implemented by testing the LMS portal by directing it into different dashboard, or profile. The code can be developed in eclipse application and by the help of JavaScript, the code is executed in TestNG tool.

APPENDICES

A. SCREENSHOTS







SOURCE CODE:

```
package TestngFlipkart;
import java.io.IOException;
import java.util.concurrent.TimeUnit;

import org.openqa.selenium.By;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class newpackage {

    public static void main(String[] args) throws InterruptedException, IOException {
        System.setProperty("webdriver.chrome.driver",
"C:\\chromedriver\\chromedriver_win32\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("http://www.flipkart.com/");
        driver.manage().timeouts().implicitlyWait(15, TimeUnit.SECONDS);
        WebElement login_cancel =
driver.findElement(By.xpath("//button[@class='_2KpZ6l _2doB4z']"));
        login_cancel.click();
        WebElement login_btn = driver.findElement(By.linkText("Login"));
        login_btn.click();
        WebElement username =
driver.findElement(By.xpath("/html/body/div[2]/div/div/div/div/div[2]/div/form/div[1]/input"));
        username.sendKeys("7013196489");
        WebElement password =
driver.findElement(By.xpath("//input[@class='_2lX_2- _3mctLh VJZDxU']"));
        password.sendKeys("narayana@227");
        password.click();
        WebElement Login =
driver.findElement(By.xpath("//button[@class='_2KpZ6l _2HKlqd _3AWRsL']"));
        Login.click();
        if(Login.isEnabled()) {
            System.out.println("User can able to login to flipcart");
        }
        WebElement logo = driver.findElement(By.xpath("_2xm1JU"));
        if(logo.isDisplayed()) {
            highlightermethod(driver, logo);
        }
        WebElement more =
driver.findElement(By.xpath("//div[@class='exehdJ']"));
        if(more.isDisplayed()) {
            System.out.println("more option is dispalyed near cart");
        }
        WebElement termsfuse = driver.findElement(By.linkText("Terms Of Use"));
        ((JavascriptExecutor)
```

```

driver).executeScript("arguments[0].scrollIntoView(true);",termsofuse );
    termsofuse.click();
    System.out.println("termsofuse is accessible");
    driver.navigate().back();
    WebElement cart =driver.findElement(By.cssSelector("#container > div > div.1kfTjk
> div._1rH5Jn > div._2Xfa2 > div:nth-child(6) > div > div > a > span"));
    cart.click();
    System.out.println("cart button is accessible");

    }

    private static void highlightermethod(WebDriver driver, WebElement logo) {
        JavascriptExecutor js = (JavascriptExecutor) driver;
        js.executeScript("arguments[0].setAttribute('style', 'background: yellow;
border: 2px solid red;");", logo);

    }
}

```

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/>