

MAHATMA EDUCATION SOCIETY'S

**PILLAI COLLEGE OF ARTS, COMMERCE AND
SCIENCE**

(Autonomous)

NEW PANVEL

PROJECT REPORT ON

**“Manual and Automated Testing
On Online Book Rental Website”**

IN PARTIAL FULFILLMENT OF

**BACHELOR OF COMPUTER SCIENCE
SEMESTER VI (2023-24)**

PROJECT GUIDE

PROF. SHUBHANGI PAWAR

SUBMITTED BY

MISS.Kanishka Singh

ROLL NO: **8917**

Evaluation Sheet for continuous assessment with rubrics

Class: Computer Science

Subject: Software Testing and Quality Assurance

Details about the continuous Assessment 2/Project work


Name of the Student: Kanishka Singh

Roll Number: 8917

Class / Division: TYCS/B

Name of Evaluator: Prof. Shubhangi Pawar

Please circle appropriate score

Grading Criteria	Fair	Good	Excellent	Total
Introduction/ Description of the Case 	1	2	3	/3
SWOT Analysis of the company used for case analysis pertaining to the case (strength: of CA2 topic: e.g main important feature of CA1, Weakness: limitations of the project, Opportunities: in carrier in the future, Threat: obstacles that can cause failure to project CA2	3	4	5	/5
Learnings from the case	2	3	4	/4
Delivery/presentation skills	1	2	3	/3
Total				/15

- Inform the class the rubric format and the method of evaluation.



Co-ordinator,

Shubhangi Pawar



INTRODUCTION:

Software Testing is a method to assess the functionality of the software program. The process checks whether the actual software matches the expected requirements and ensures the software is bug-free. The purpose of software testing is to identify the errors, faults, or missing requirements in contrast to actual requirements. It mainly aims at measuring the specification, functionality, and performance of a software program or application.

Software testing can be divided into two steps:

1. **Verification:** It refers to the set of tasks that ensure that the software correctly implements a specific function. It means “Are we building the product right?”.
2. **Validation:** It refers to a different set of tasks that ensure that the software that has been built is traceable to customer requirements. It means “Are we building the right product?”.

Apart from the above classification software testing can be further divided into 2 more ways of testing:

1. **Manual Testing:** Manual testing includes testing software manually, i.e., without using any automation tool or script. In this type, the tester takes over the role of an end-user and tests the software to identify any unexpected behavior or bug. There are different stages for manual testing such as unit testing, integration testing, system testing, and user acceptance testing. Testers use test plans, test cases, or test scenarios to test software to ensure the completeness of testing.
2. **Automation Testing:** Automation testing, which is also known as Test Automation, is when the tester writes scripts and uses another software to test the product. This process involves the automation of a manual process. Automation Testing is used to re-run the test scenarios quickly and repeatedly, that were performed manually in manual testing.

DIFFERENT TYPES OF SOFTWARE TESTING TECHNIQUES :

Software testing techniques can be majorly classified into two categories:

1. **Black Box Testing:** Black box technique of testing in which the tester doesn't have access to the source code of the software and is conducted at the software interface without any concern with the internal logical structure of the software known as black-box testing.
2. **White-Box Testing:** White box technique of testing in which the tester is aware of the internal workings of the product, has access to its source code, and is conducted by making sure that all internal operations are performed according to the specifications is known as white box testing.

1. Manual Testing (Login PAGE)

- Manual testing is a process where testers manually execute test cases without using any automation tools. Its purpose is to ensure the software or application functions as expected, matches the requirements, and meets the end user's needs. Manual testing involves human intervention to explore various usage scenarios, detect bugs, and assess the user experience.

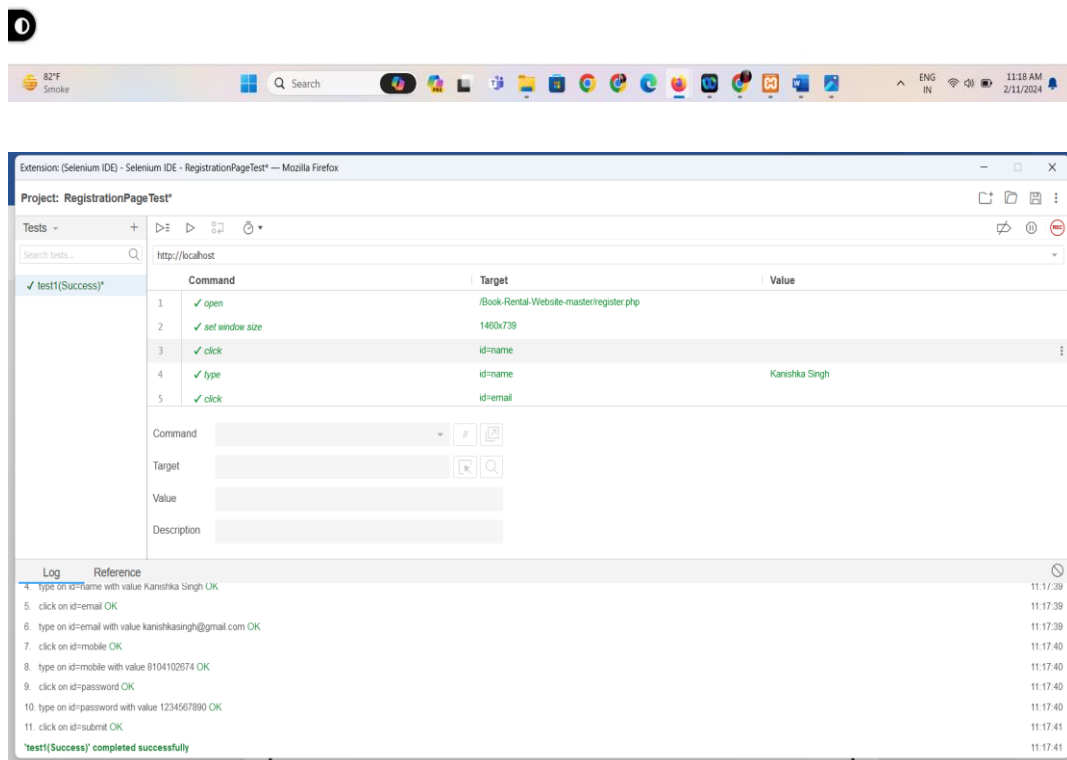
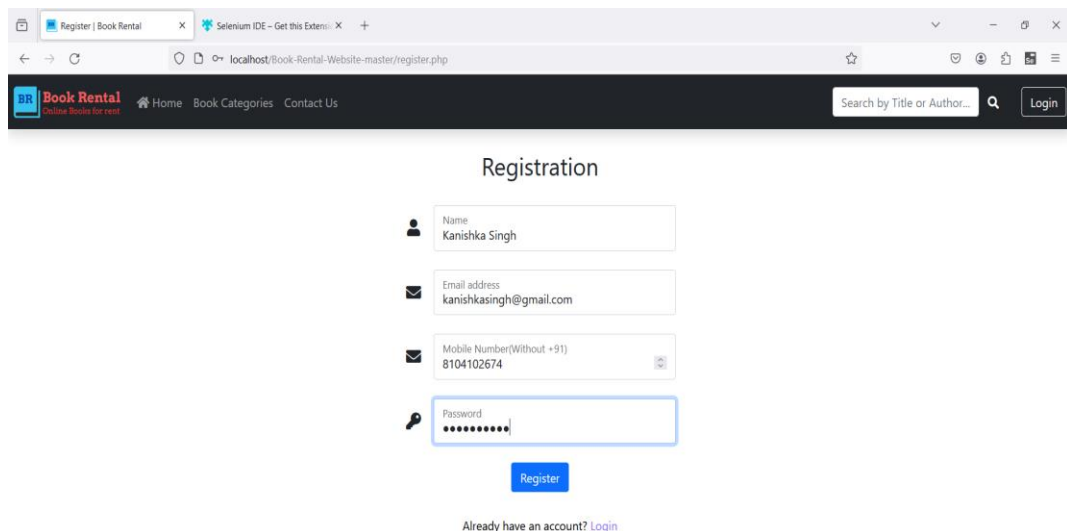
A. With Excel Sheet

A	B	C	D	E	F	G
Test Senario Id:	1		Login			
Tester Name:	Kanishka Singh					
Test Page:	Login Page		Email Address:			
Date:	23rd Nov 2023		Password:			
Pre req.:	None					
			LOGIN			
			New to Book Rental? Register			
Test Id:	Scenario	Test case Steps	Test Data	Actual Output	Expected Output	Status
1	Enter all correct details	Open the Login Page Enter Email Address Enter Password Click on Login Button	http://localhost/Book-Rental-Website-master/SignIn.ph kanishkasingh@gmail.com 1234567890	Redirect to "Home Page"	Redirected to "Home Page"	PASS
2	Enter Correct Email and Empty Password	Open the Login Page Enter Email Address Enter Empty Password Click on Login Button	http://localhost/Book-Rental-Website-master/SignIn.ph kanishkasingh@gmail.com	Display "Please fill out this field"	Display "Please fill out this field"	PASS
3	Enter Empty Email and Correct Password	Open the Login Page Enter Empty Email Address Enter Empty Password Click on Login Button	http://localhost/Book-Rental-Website-master/SignIn.ph 1234567890	Display "Please fill out this field"	Display "Please fill out this field"	PASS
4	Enter wrong Password	Open the Login Page Enter Email Address Enter Wrong Password Click on Login Button	http://localhost/Book-Rental-Website-master/SignIn.ph kanishkasingh@gmail.com 1987654321	Invalid Username/Password	Display "Invalid Password"	FAIL
5	Enter wrong Email	Open the Login Page Enter Wrong Email Address Enter Password Click on Login Button	http://localhost/Book-Rental-Website-master/SignIn.ph kanishka@gmail.com 1234567890	Invalid Username/Password	Display "Wrong Email Address"	FAIL
6	Enter wrong email and wrong Password	Open the Login Page Enter Wrong Email Address Enter Wrong Password Click on Login Button	http://localhost/Book-Rental-Website-master/SignIn.ph amonsingh@gmail.com 987654321	Displayed Invalid Username/Password	Display "Account not Found create new"	PASS

B. Selenium IDE

Selenium IDE is a record-and-playback tool used for automated testing of web applications. It allows testers to record their interactions with the web application and replay them later to automate repetitive testing tasks. It's primarily used for creating automated test scripts without needing to write code manually, making it accessible to testers with minimal programming knowledge.

- Test Case 1
With Correct email id and Correct and Password

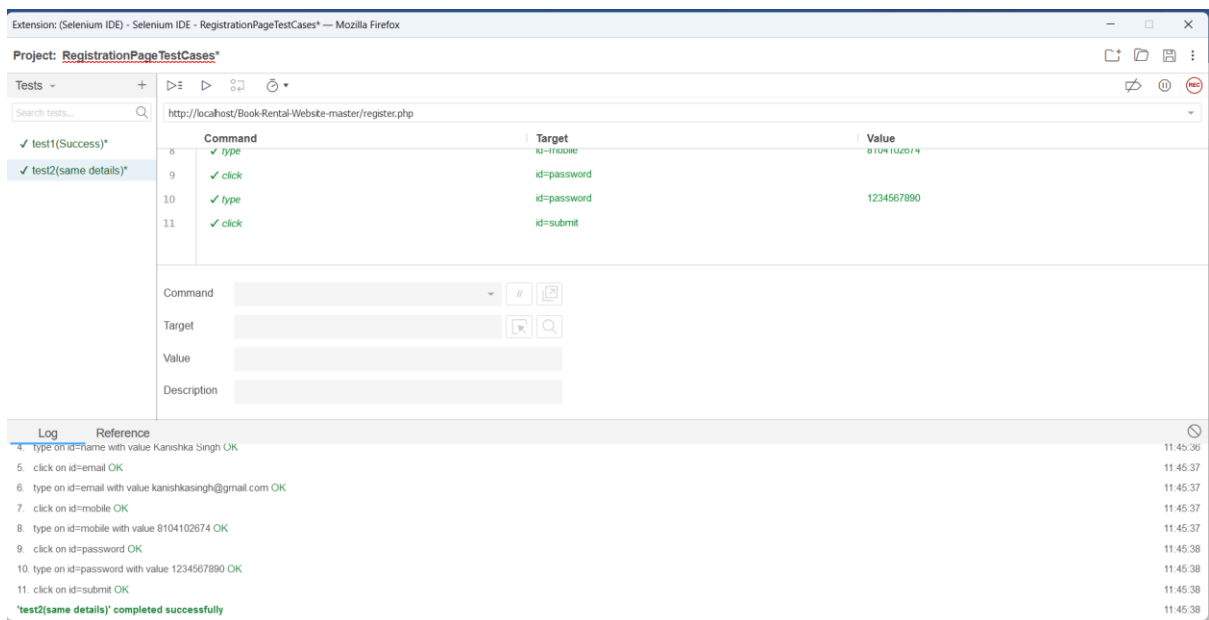
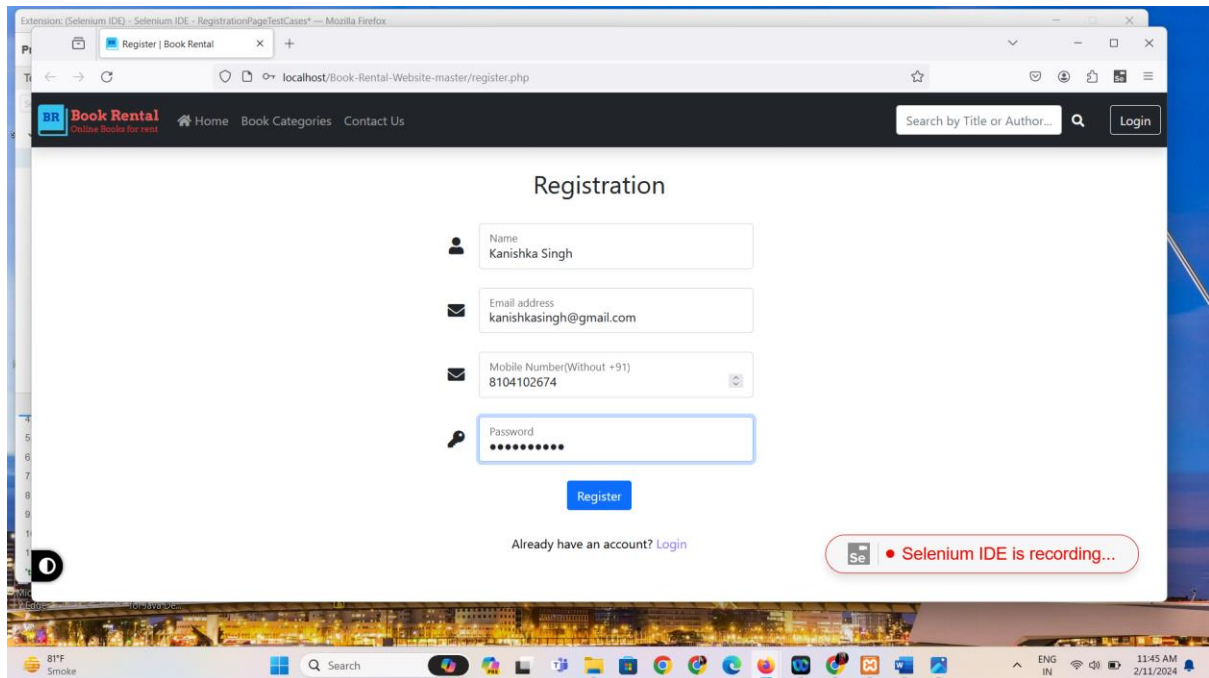


Command	Target	Value
1. ✓ open	/Book-Rental-Website-master/register.php	
2. ✓ set window size	1400x739	
3. ✓ click	id=name	
4. ✓ type	id=name	Kanishka Singh
5. ✓ click	id=email	

Log	Reference
4. type on id=name with value Kanishka Singh OK	11:17:39
5. click on id=email OK	11:17:39
6. type on id=email with value kanishkasingh@gmail.com OK	11:17:39
7. click on id=mobile OK	11:17:40
8. type on id=mobile with value 8104102674 OK	11:17:40
9. click on id=password OK	11:17:40
10. type on id=password with value 1234567890 OK	11:17:40
11. click on id=submit OK	11:17:41
test1(Success)* completed successfully	

- Test Case 2:

Entering same details again



- Test Case 3:
With invalid Email address

Book Rental
Choose Books for Rent

Home Book Categories Contact Us

Search by Title or Author... Login

Registration

Name
Kanishka Singh

Email address
kanishkasingh@gmail.com

Manage Passwords

Mobile Number(Without +91)
8104102674

Password
.....

Register

Already have an account? [Login](#)

Extension: (Selenium IDE) - Selenium IDE - RegistrationPageTestCases - Mozilla Firefox

Project: RegistrationPageTestCases

Tests	Command	Target	Value
✓ test1(Success)	1. ✓ open	http://localhost/Book-Rental-Website-master/register.php	
✓ test2(same details)	2. ✓ set window size	1460x739	
✓ test3(Invalid email address)	3. ✓ click	id=name	
	4. ✓ type	id=name	Kanishka Singh
	5. ✓ click	id=email	

Command: [Dropdown] [Reset] [Save]

Target: [Dropdown] [Reset] [Search]

Value: [Text Box]

Description: [Text Box]

Log	Reference	
5. click on id=email OK		12:02:08
6. type on id=email with value kanishkasingh@gmail.com OK		12:02:08
7. click on id=mobile OK		12:02:08
8. type on id=mobile with value 8104102674 OK		12:02:08
9. click on id=password OK		12:02:09
10. type on id=password with value 1234567890 OK		12:02:09
11. click on id=submit OK		12:02:09
12. click on id=submit OK		12:02:09
'test3(Invalid email address)' completed successfully		12:02:10

2.Automated Testing

- **Contact Us Page**

```
package seleniumRC;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.remote.DesiredCapabilities;

public class selenium {

    static String driverPath = "C:\\\\Users\\Admin\\Downloads\\geckodriver-v0.34.0-
win32\\";

    public static WebDriver driver;

    public static void main(String args[]) throws InterruptedException {

        System.setProperty("webdriver.gecko.driver", driverPath + "geckodriver.exe");

        DesiredCapabilities capabilities = DesiredCapabilities.firefox();

        capabilities.setCapability("marionette", true);

        // Create a new instance of the Firefox driver

        driver = new FirefoxDriver(capabilities);

        // Navigate to the login page

        driver.get("http://localhost/Book-Rental-Website-master/contactUs.php");

        // Fill in the login form

        driver.findElement(By.name("name")).sendKeys("Kanishka");

        driver.findElement(By.name("email")).sendKeys("kanishkasingh@gmail.com");

        driver.findElement(By.name("mobile")).sendKeys("8104102674");
```

```

driver.findElement(By.name("message")).sendKeys("Hiee I really liked this
website");

driver.findElement(By.name("submit")).click();

// Wait for demonstration purposes; consider using explicit waits

System.out.println("Message Sent");

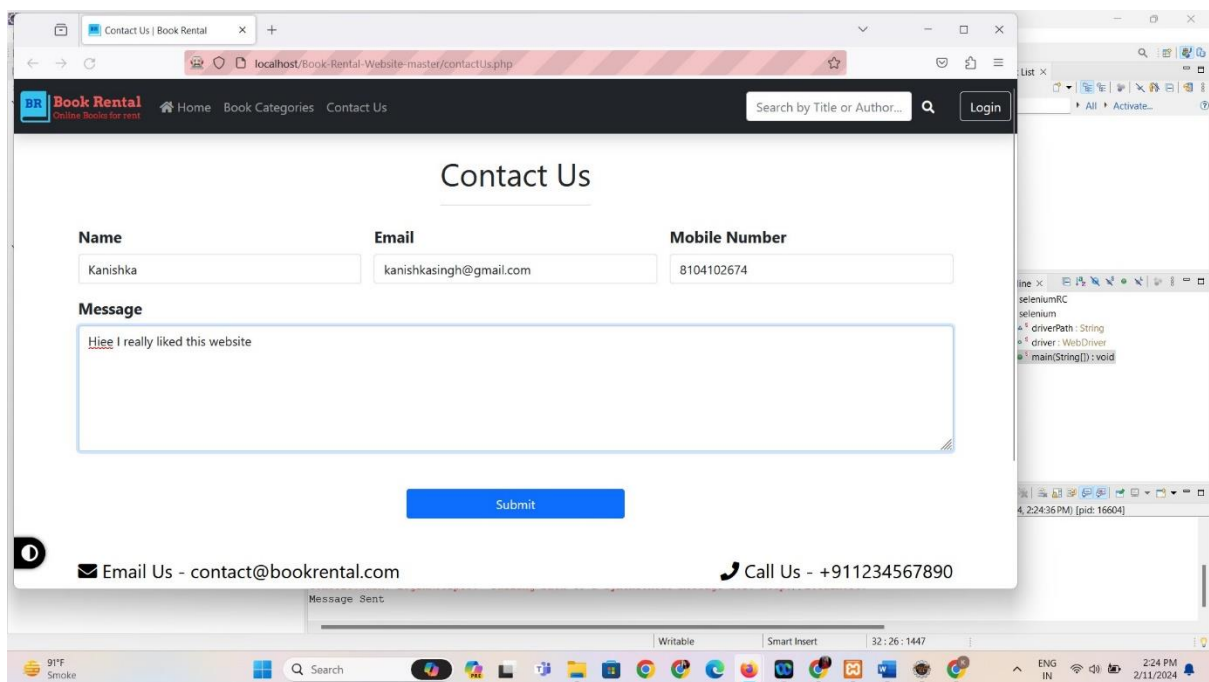
Thread.sleep(10000);

// Maximize the window

//driver.manage().window().maximize();

driver.close();}}

```



```

JavaScript error: resource://gre/modules/XULStore.sys.mjs, line 60: Error: Can't find profile directory.
console.warn: LoginRecipes: "Falling back to a synchronous message for: http://localhost."

```

Message Sent

```

1707641698975 Marionette INFO Stopped listening on port 63412

```

```

Dynamically enable window occlusion 1

```

- **Login Page**

```
package seleniumRC;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.firefox.FirefoxDriver;

import org.openqa.selenium.remote.DesiredCapabilities;

public class seleniumRC {

    static String driverPath = "C:\\Users\\Admin\\Downloads\\geckodriver-v0.34.0-win32\\";

    public static WebDriver driver;

    public static void main(String args[]) throws InterruptedException {

        System.setProperty("webdriver.gecko.driver", driverPath + "geckodriver.exe");

        DesiredCapabilities capabilities = DesiredCapabilities.firefox();

        capabilities.setCapability("marionette", true);

        // Create a new instance of the Firefox driver

        driver = new FirefoxDriver(capabilities);

        // Navigate to the login page

        driver.get("http://localhost/Book-Rental-Website-master/SignIn.php");

        // Fill in the login form

        driver.findElement(By.name("email")).sendKeys("kanishkasingh@gmail.com");

        driver.findElement(By.name("password")).sendKeys("1234567890")

        driver.findElement(By.name("submit")).click();

        // Wait for demonstration purposes; consider using explicit waits

        System.out.println("Login Successfull!!!!!!!!!!!!1");

        Thread.sleep(10000);
```

```

// Maximize the window

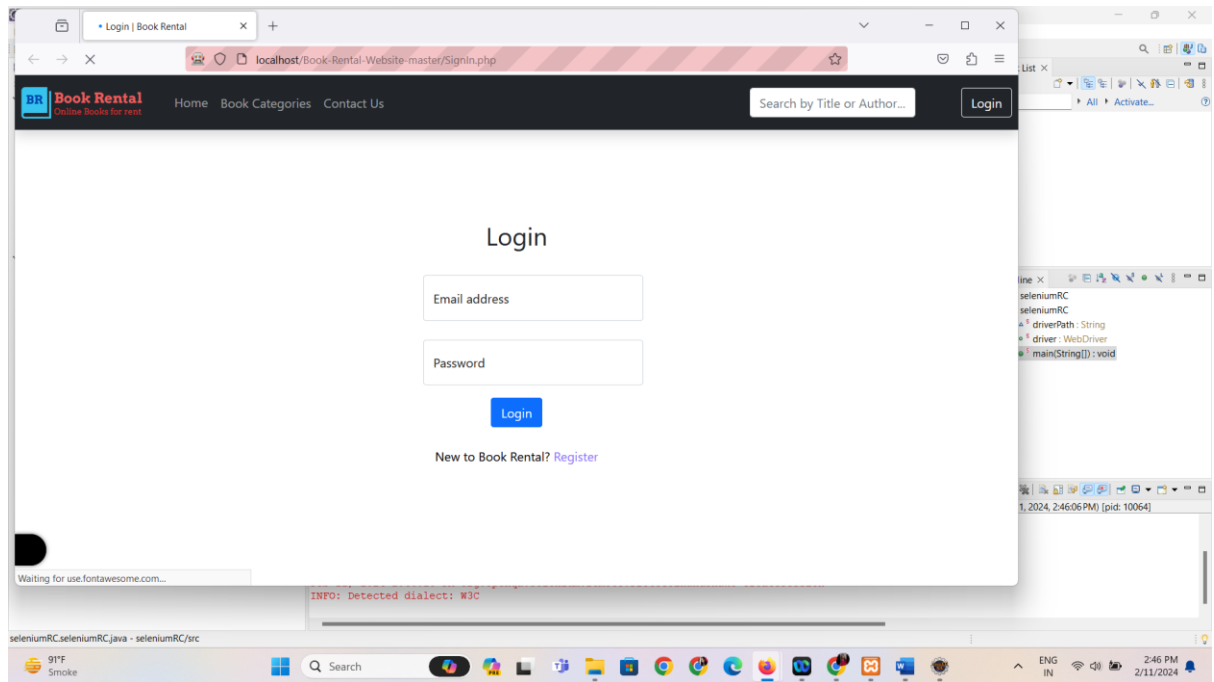
//driver.manage().window().maximize();

driver.close();

}

}

```



```

console.warn: LoginRecipes: "Falling back to a synchronous message for: http://localhost."
Login Successfull!!!!!!!!!!!!1
1707642983111  Marionette      INFO      Stopped listening on port 63729
Dynamically enable window occlusion 1

```