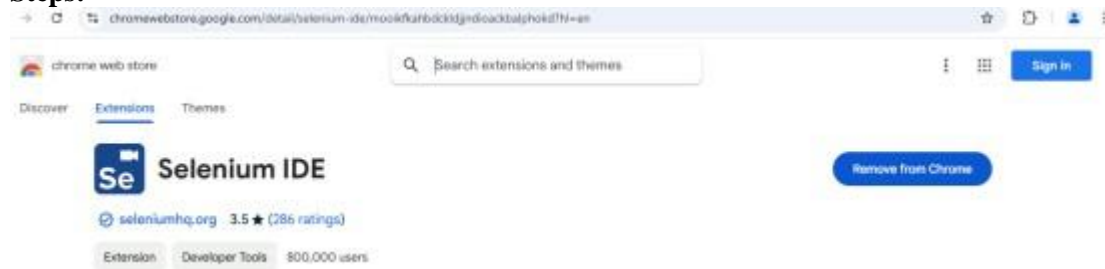


**Q.1] Install Selenium IDE.****Steps:**

1) Create a Project.

2) Create a Test.

3) Surf any website url

4) record

**A] Conduct a test suite for any two web sites.**

→ Steps recorded by selenium IDE

Log	Reference
8. selectWindow on handle=\$(win3338) OK	
9. runScript on window.scrollTo(0, 1607) OK	
10. runScript on window.scrollTo(0, 1956) OK	
11. runScript on window.scrollTo(0, 2422) OK	
12. runScript on window.scrollTo(0, 27831) OK	
13. click on css= improved:nth-child(1) & nth-child(1) > a OK	
"T1" completed successfully	

	Command	Target	Value
1	✓ open	/	
2	✓ set window size	697x728	
3	✓ click	css= HomePageSearchContainer_homePageSearchContainer_container_input_1150r	
4	✓ click	css= HomePageSearchContainer_homePageSearchContainer_container-results-singleResult_p51M:nth-child(1)	
5	✓ mouse over	css= SearchModalArticleCard_searchModalArticleCard_x__ynth-child(3) SearchModalArticleCard_searchModalArticleCard_content_header_hB4a	

→ Logs of Testing.

**B] Write a test suite containing minimum 4 test cases for different formats.****Steps:**

1) Create many test suite.

2) Record tests.

3) Add/group required tests to the test suite.

4) View the test suite.

**Test 1 – Text Input**

Command	Target	Value
1. open	https://demoqa.com/text-box	
2. set window size	1050x708	
3. run script	window.scrollTo(0, 396)	
4. click	id=username	
5. type	id=username	No Name
6. type	id=email	noname@unknown.com
7. type	id=password	concretequill@

**Test 2 – Checkbox**

Command	Target	Value
1. open	https://demoqa.com/checkbox	
2. set window size	1050x708	
3. click	css= rct-icon-uncheck	

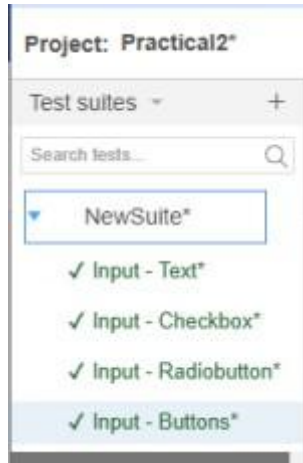
**Test 3 – Radio Button**

Command	Target
9. ✓ click	css= disabled:nth-child(2)
10. ✓ double click	css= disabled:nth-child(2)
11. ✓ click	css= custom-control:nth-child(3) > .custom-control-label
12. ✓ click	css= custom-control:nth-child(4)
13. ✓ click	css= custom-control:nth-child(2) > .custom-control-label

## Test 4 – Button

Run current test Ctrl+R ons		
Command	Target	
✓ click	id=doubleClickBtn	
✓ click	id=doubleClickBtn	
✓ double click	id=doubleClickBtn	
✓ click	css=col-md-6 > div:nth-child(2)	
✓ click	css=col-md-6 > div:nth-child(2)	
✓ click	id=qzM1G	

## Test Suite Result



## C) Asserting tools of Selenium IDE.

Command	Target	Value
✓ open	https://www.w3schools.com/	
✓ set window size	1050x718	
✓ assert title	W3Schools Online Web Tutorials	
✓ click	id=navbtn_tutorials	
✓ assert text	id=navbtn_tutorials	Tutorials

Browser: w3schools.com

Navigation: Back, Forward, Reload, Save as..., Print..., Cast..., Search with Google Lens, Open in reading mode, Send to your devices, Create QR code for this page, Translate to English, Selenium IDE, View page source, Inspect.

Assertions: Checked, Editable, Not Checked, Not Editable, Not Present, Not Selected Value, Not Text, Present, Selected Label, Selected Value, Text, Title, Value.

**A] Trying a Successful Test.**

```

package set.prac;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.remote.DesiredCapabilities;
public class SETPrac {
† static String driver_path = "C:\\Users\\LAB2-PC05\\Desktop\\SYCS55\\geckodriver-v0.35.0-
win64\\geckodriver.exe";
    public static WebDriver driver;
    public static void main(String[] args) {
        System.out.println("Testing the Title");
        System.setProperty("webdriver.gecko.driver", driver_path);
        DesiredCapabilities cap = DesiredCapabilities.firefox();
        driver = new FirefoxDriver(cap);
        driver.get("https://www.google.com");
        String desiredTitle = "Google";
        String actualTitle = driver.getTitle();
        if (actualTitle.contentEquals(desiredTitle))
            System.out.println("Same Titles...!");
        else
            System.out.println("Different Titles...!");
        driver.manage().window().maximize();}

```

```

Same Titles...! Test Successfull.
BUILD SUCCESSFUL (total time: 12 seconds)

```

**B] Trying an unsuccessful test. (Only modified lines)**

```
String desiredTitle = "Ggle";
```

```

Different Titles...! Test Failed.
BUILD SUCCESSFUL (total time: 11 seconds)

```

**C] With 'FirefoxOption' class. (Since DesiredCapabilities class is depreciated)**

```

package set.prac;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.firefox.FirefoxOptions;
public class SETPrac {
† static String driver_path = "C:\\Users\\LAB2-PC05\\Desktop\\SYCS55\\geckodriver-v0.35.0-
win64\\geckodriver.exe";
    public static WebDriver driver;
    public static void main(String[] args) {
        System.out.println("Testing the Title");
        System.setProperty("webdriver.gecko.driver", driver_path);
FirefoxOptions fox = new FirefoxOptions();
driver = new FirefoxDriver(fox);
        driver.get("https://www.google.com");
        String desiredTitle = "Google";
        String actualTitle = driver.getTitle();
        if (actualTitle.contentEquals(desiredTitle))
            System.out.println("Same Titles...! Test Successfull.");
        else
            System.out.println("Different Titles...! Test Failed.");
        driver.manage().window().maximize();
    }
}

```

```

Same Titles...! Test Successfull.
BUILD SUCCESSFUL (total time: 12 seconds)

```

**HTML Form:**

```
<html>
<head>
<title>Login Form</title>
</head>
<body>
<form method="get" action="formValidate.php">
    Username: <input type="text" name="username">
    Password: <input type="password" name="password">
    <input id="submit" type="submit" name="submit" value="Submit">
</form>
</body>
</html>
```

**Php Code:**

```
<?php
$username = $_GET["username"];
$password = $_GET["password"];
if ($username == "Naruto" && $password == "1234") {
    echo "Login Successfull...!";
} else {
    echo "Login Failed...!";
}
?>
```

**Java Code:**

```
package sycs01;
```

```
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.firefox.FirefoxOptions;
public class SYCS55 {
    † static String path= "C:\\Users\\LAB2-PC02\\Desktop\\SYCS55\\libs\\geckodriver-v0.35.0-
win64\\geckodriver.exe";
    public static WebDriver driver;
    public static void main(String[] args) {
        System.setProperty("webdriver.gecko.driver", path);
        FirefoxOptions fox = new FirefoxOptions();
        driver = new FirefoxDriver(fox);
        driver.get("http://localhost/SYCS/LoginForm.html");
        driver.manage().window().maximize();
        driver.findElement(By.name("username")).sendKeys("Naruto");
        driver.findElement(By.name("password")).sendKeys("1234");
        driver.findElement(By.name("submit")).click();
    }
}
# Failed Attempt
    driver.findElement(By.name("username")).sendKeys("Unknown");
    driver.findElement(By.name("password")).sendKeys("12345");
```

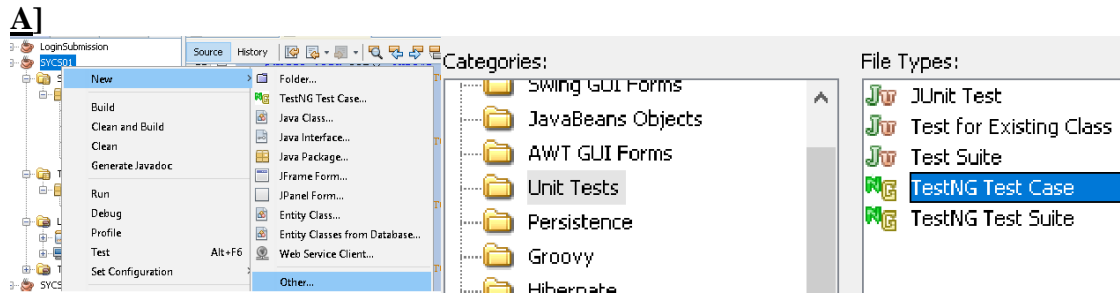



---

Login Successfull...!

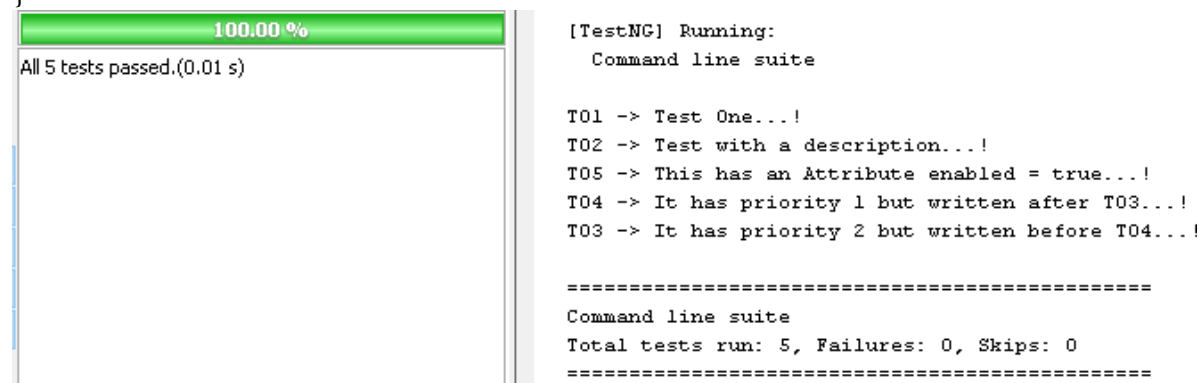
---

Login Failed...!



### Java → TestNG code

```
package tests;
import org.testng.annotations.Test;
public class Test01 {
    @Test
    public void T01() throws Exception {
        System.out.println("T01 -> Test One...!");
    }
    @Test(description = "This Test uses an Attribute Description")
    public void T02() throws Exception {
        System.out.println("T02 -> Test with a description...!");
    }
    @Test(priority = 2)
    public void T03() throws Exception {
        System.out.println("T03 -> It has priority 2 but written before T04...!");
    }
    @Test(priority = 1)
    public void T04() throws Exception {
        System.out.println("T04 -> It has priority 1 but written after T03...!");
    }
    @Test(enabled = true)
    public void T05() throws Exception {
        System.out.println("T05 -> This has an Attribute enabled = true...!");
    }
    @Test(enabled = false)
    public void T06() throws Exception {
        System.out.println("T06 -> This has an Attribute enabled = false...!");
    }
}
```



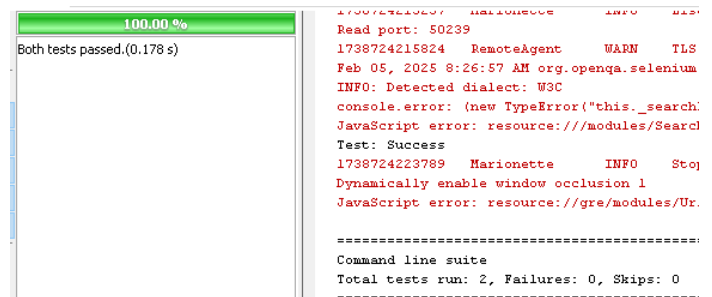
B]

Code:

```

package tests;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.firefox.FirefoxOptions;
import org.testng.Assert;
import static org.testng.Assert.*;
import org.testng.annotations.AfterTest;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;
public class Test02 {
    public static String driverpath = "C:\\Users\\LAB2-
PC02\\Desktop\\SYCS01\\libs\\geckodriver.exe";
    public static WebDriver driver;
    @BeforeTest
    public void launchBrowser() {
        System.setProperty("webdriver.gecko.driver", driverpath);
        FirefoxOptions fox = new FirefoxOptions();
        driver = new FirefoxDriver(fox);
        driver.get("https://google.com");
        driver.manage().window().maximize();
    }
    @Test
    public void actualTest() {
        String desiredTitle = "Google";
        String actualTitle = driver.getTitle();
        Assert.assertEquals(desiredTitle, actualTitle);
    }
    @Test
    public void testExists() {
        if (driver.getPageSource().contains("Google"))
            System.out.println("Test: Success");
        else
            System.out.println("Test: Failure");
    }
    @AfterTest
    public void closeProgram() {
        driver.close();
    }
}

```



C]

```

package tests;
import org.testng.annotations.Test;
import java.io.FileInputStream;
import java.io.FileOutputStream;
import jxl.Sheet;
import jxl.Workbook;
import jxl.write.Label;
import jxl.write.WritableSheet;
import jxl.write.WritableWorkbook;
public class ExcelTest {
    @Test

```

```

public void ActualTest() throws Exception {
    FileInputStream fi = new FileInputStream("E:\\\\Marksheet.xls");
    Workbook w = Workbook.getWorkbook(fi);
    Sheet s = w.getSheet(0);
    String a[][] = new String[s.getRows()][s.getColumns()];
    FileOutputStream fo = new FileOutputStream("E:\\\\Marksheet.xls");
    WritableWorkbook ww = Workbook.createWorkbook(fo);
    WritableSheet ws = ww.createSheet("Sheet1", 0);
    Label newlabel = new Label(6, 0, "Result");
    ws.addCell(newlabel);
    for (int i = 0; i < s.getRows(); i++) {
        for (int j = 0; j < s.getColumns(); j++) {
            a[i][j] = s.getCell(j, i).getContents();
            Label l2 = new Label(j, i, a[i][j]);
            ws.addCell(l2); } }
    for (int i = 1; i < s.getRows(); i++) {
        for (int j = 2; j < s.getColumns(); j++) {
            a[i][j] = s.getCell(j, i).getContents();
            int x;
            try {
                x = Integer.parseInt(a[i][j]);
                if (x > 60) {
                    Label l1 = new Label(6, i, "Eligible");
                    ws.addCell(l1);
                } else {
                    Label l1 = new Label(6, i, "Not Eligible");
                    ws.addCell(l1);
                    break; } } catch (NumberFormatException e) { } }
    ww.write();
    ww.close();
    w.close();
    System.out.println("Records successfully updated"); } }

```

Test Results × Output - SYCS-SET (test)

Ant suite ×

Tests passed: 100.00 %

The test passed. (0.365 s)

Records successfully updated

Command line suite

Total tests run: 1, Failures: 0, Skips: 0

**Before:**

RollNo	Name	English	Maths	Science	EVS	Result
1	Abc	96	98	95	94	
2	Xyz	89	87	42	48	
3	Pqr	45	75	35	54	
4	Mno	35	18	48	75	
5	Efg	73	75	84	70	

**After:**

RollNo	Name	English	Maths	Science	EVS	Result
1	Abc	96	98	95	94	Eligible
2	Xyz	89	87	42	48	Not Eligible
3	Pqr	45	75	35	54	Not Eligible
4	Mno	35	18	48	75	Not Eligible
5	Efg	73	75	84	70	Eligible

**HTML:**

```
<a href="https://www.google.com">Google</a><br><br>
<a href="https://www.youtube.com">YouTube</a><br><br>
<a href="https://www.facebook.com">Facebook</a><br><br>
```

[Google](https://www.google.com)[YouTube](https://www.youtube.com)**Java Code:**

```
package sycs01;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.By;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.remote.DesiredCapabilities;
import java.util.List;
public class Practical04 {
    public static WebDriver driver;
    static String path= "C:\\Users\\LAB2-PC02\\Desktop\\SYCS01\\libs\\geckodriver-v0.35.0-
win64\\geckodriver.exe";
```

[Facebook](https://www.facebook.com)

```
    public static void main (String args[]) {
        System.setProperty("webdriver.gecko.driver",path);
        DesiredCapabilities cap = DesiredCapabilities.firefox();
        cap.setCapability("marionette", true);
        driver = new FirefoxDriver(cap);
        driver.get("http://localhost/sycs/links.html");
        driver.manage().window().maximize();
        List<WebElement> links = driver.findElements(By.tagName("a"));
        System.out.println("Total number of Links: "+links.size());
        System.out.println("Names of links are: ");
        for (int i=0 ; i<links.size() ; i++) {
            System.out.println((i+1)+": "+links.get(i).getText());}
    }
```

Total number of Links: 3

Names of links are:

1: Google

2: YouTube

3: Facebook

BUILD SUCCESSFUL (total time: 6 seconds)

[Google](https://www.google.com)[YouTube](https://www.youtube.com)[Facebook](https://www.facebook.com)

Grr



Google Search

I'm Feeling Lucky

Google offered in: हिन्दी বাংলা తెలుగు मराठी தமிழ் ગુજરાતી ಕನ್ನಡ മലയാളം ਪੰਜਾਬੀ



## 5B : Dropdown

### HTML CODE

```
<!doctype html>
<html>
<head><title>Dropdown</title></head>
<body>
<form>
<select name="Bikes" id="Bikes">
<option value="TVS">TVS Ronny</option>
<option value="Royal">Hunter 350</option>
<option value="bmw">Bmw</option>
<option value="kawasaki">Kawasaki</option>
<option value="pulsar">Pulsar</option>
</select>
</form>
</html>
</body>
```

### Netbeans Code

```
package dropdown;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.firefox.FirefoxOptions;
import java.util.List;

public class Dropdown {
    static String driverPath="C:\\Users\\LAB1-PC23\\Desktop\\SYCS55\\geckodriver.exe";
    public static WebDriver driver;

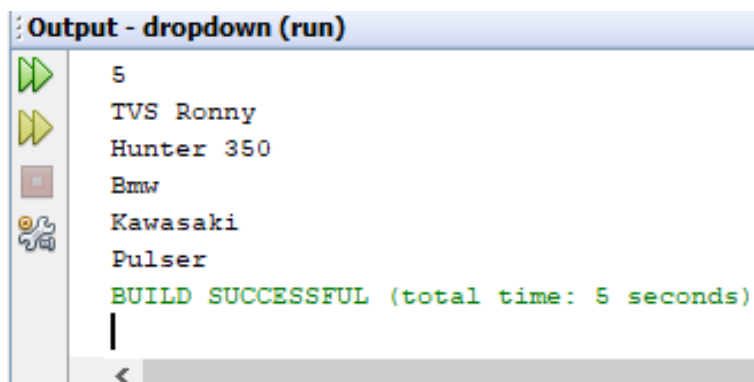
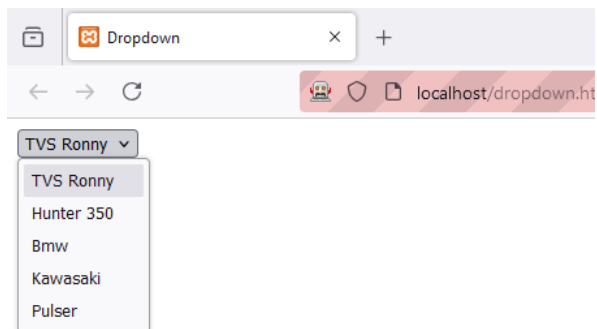
    public static void main(String[] args) {
        System.setProperty("webdriver.gecko.driver", driverPath);

        FirefoxOptions options=new FirefoxOptions();
        driver=new FirefoxDriver(options);
        driver.get("http://localhost:80/dropdown.html");
        driver.manage().window().maximize();

        List<WebElement> objs=driver.findElements(By.xpath("//select/option"));
        System.out.println(objs.size());
    }
}
```

```
        for(int i=0;i<objs.size();i++){  
            WebElement obj=objs.get(i);  
            System.out.println(obj.getText());  
        }  
  
    }  
  
}
```

## OUTPUT



## 5C:CheckBox

### Html code

```
<!doctype html>  
<html>  
<head><title>Checkbox</title></head>  
  
<body>  
<form>  
<input type="checkbox">Ronaldo<br>  
<input type="checkbox">Messi<br>  
<input type="checkbox">Mbappe<br>  
<input type="checkbox">Neymar<br>
```

```
<input type="checkbox">Rodri<br>
<input type="checkbox">Vini Jr<br>
</form>
</html>
```

**NETBEANS:**

```
package checkbox;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.firefox.FirefoxOptions;
import java.util.List;

public class Checkbox {
    static String driverPath="C:\\Users\\LAB1-PC23\\Desktop\\SYCS55\\geckodriver.exe";
    public static WebDriver driver;
    public static void main(String[] args) {
        int selected=0;
        int unselected=0;

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

        FirefoxOptions options =new FirefoxOptions();
        driver=new FirefoxDriver(options);
        driver.get("http://localhost/checkbox1.html");
        driver.manage().window().maximize();

        List<WebElement>checks=driver.findElements(By.xpath("//input[@type='checkbox']"));
        System.out.println("Number of Checkboxes :"+checks.size());
        for(int i=0;i<checks.size(); i+=2){
            checks.get(i).click();
        }
        for(int i=0;i<checks.size();i++){
            if(checks.get(i).isSelected()){
                selected++;
            }
        }
        unselected=checks.size()-selected;

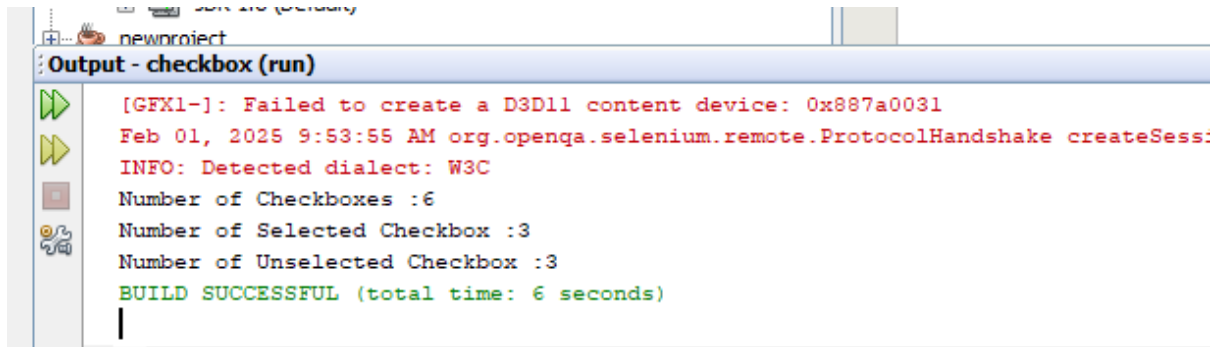
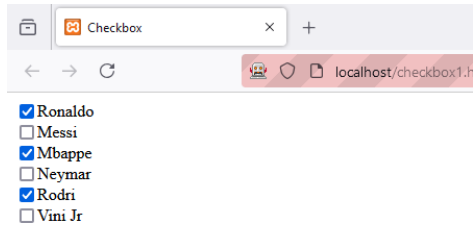
        System.out.println("Number of Selected Checkbox :"+selected);
    }
}
```

```
System.out.println("Number of Unselected Checkbox :"+unselected);
```

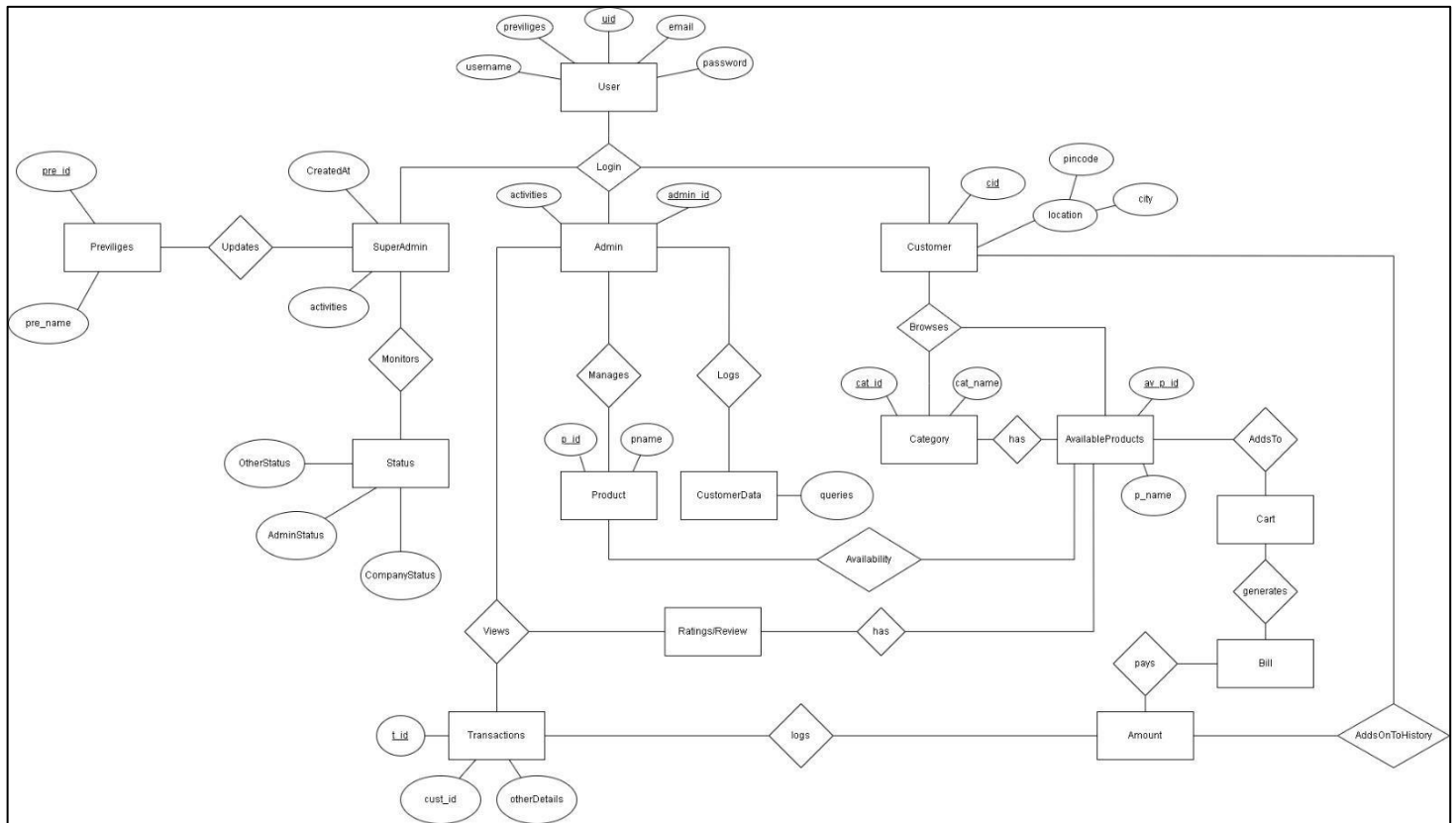
```
}
```

```
}
```

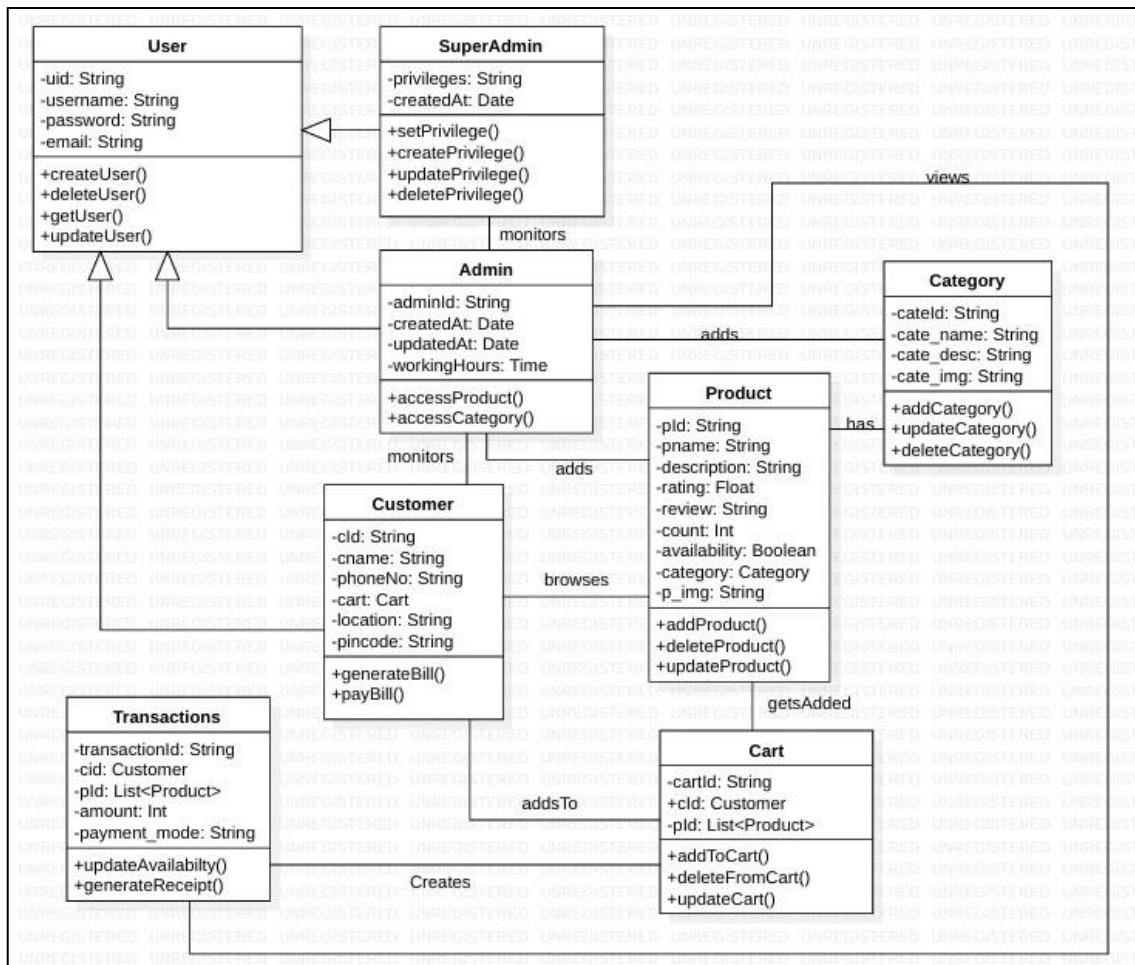
## OUTPUT



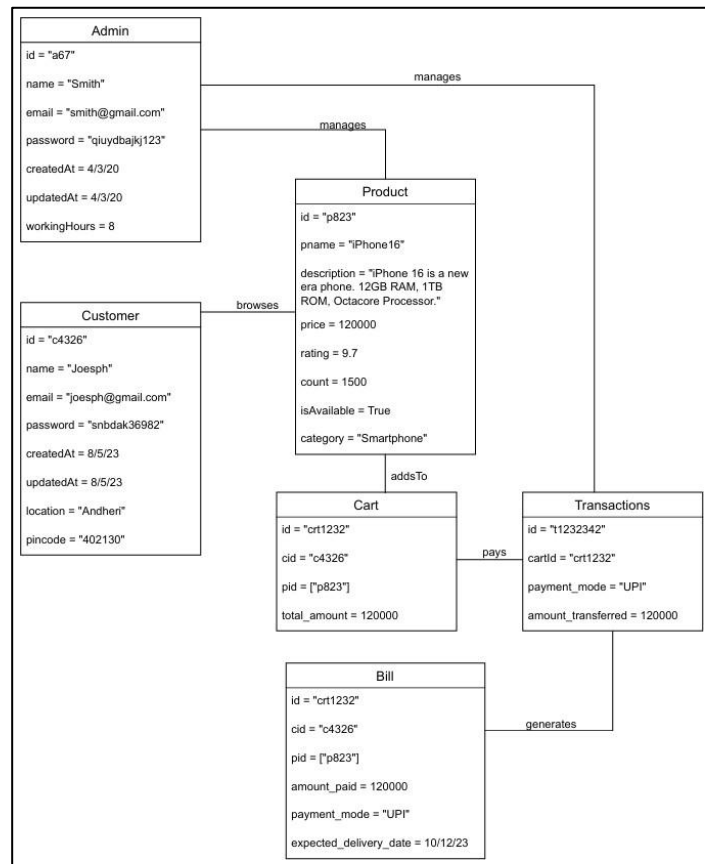
## ER Diagram: E-Commerce



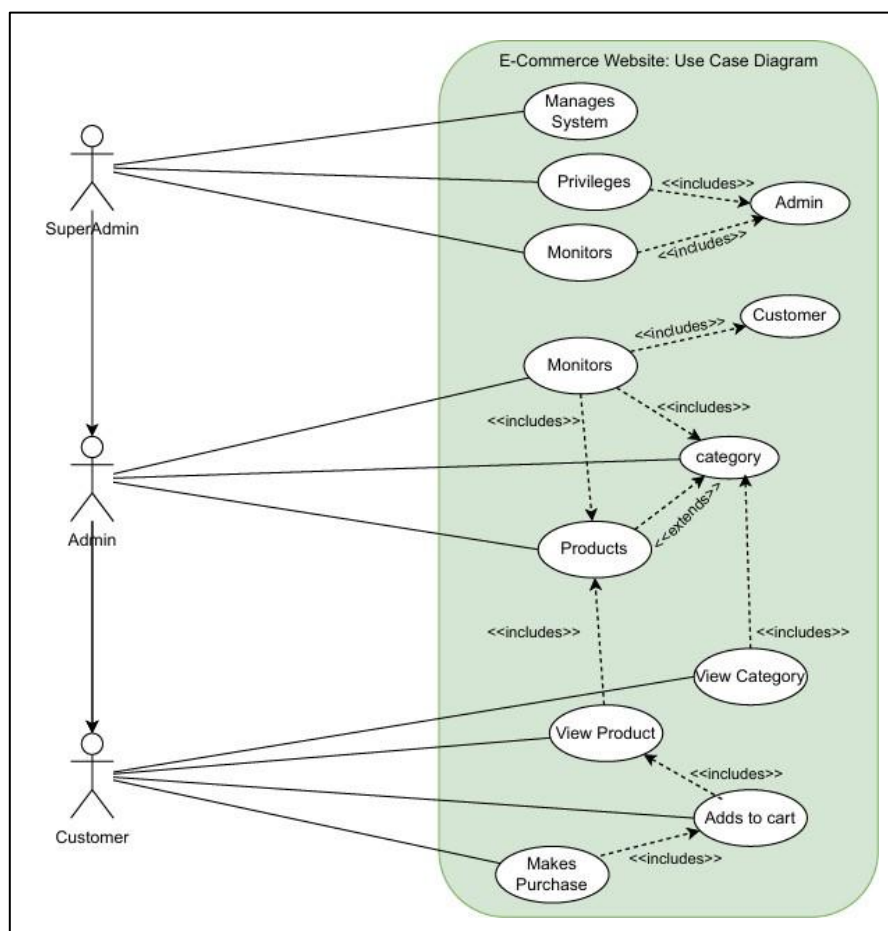
## Class Diagram: E-Commerce

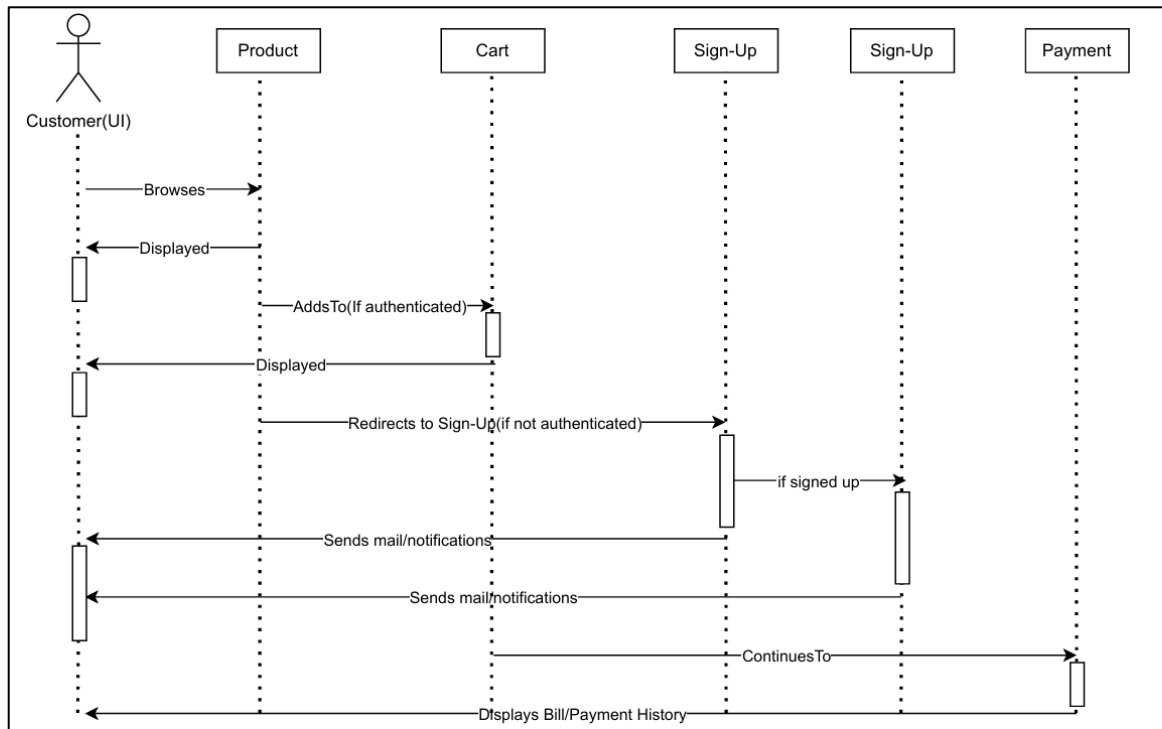
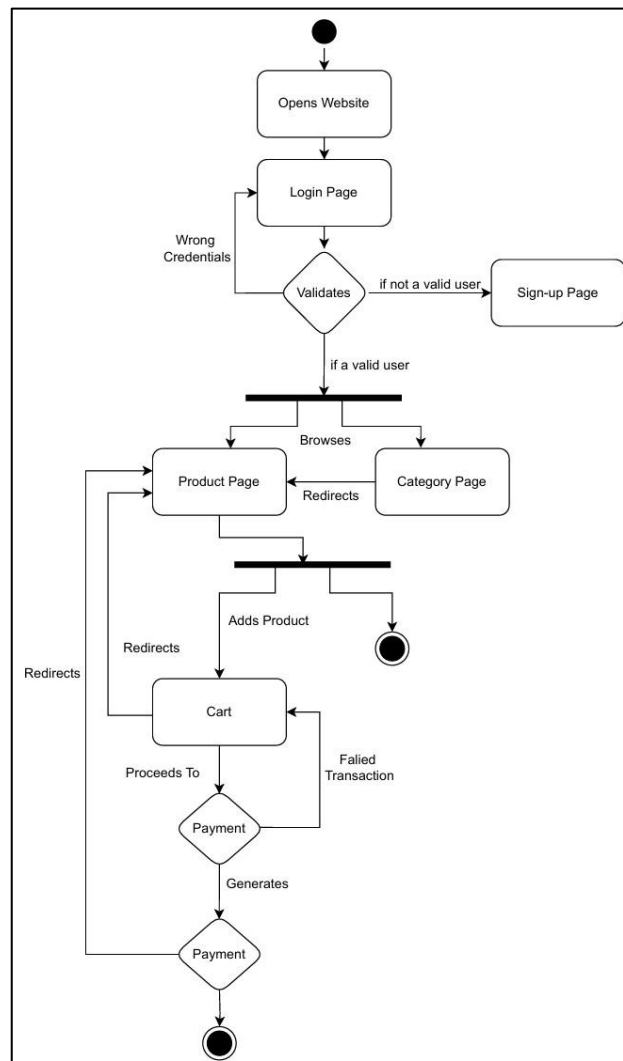


## Object Diagram: E-Commerce



## Use Case Diagram: E-Commerce



**Sequence Diagram: E-Commerce****Activity Diagram: E-Commerce**

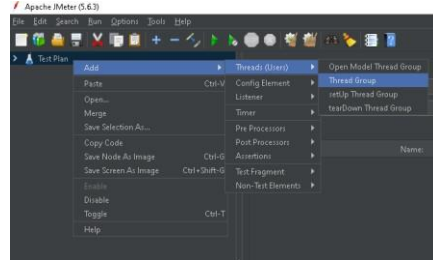
## JMeter Installation: Apache JMeter 5.6.3 (Requires Java 8+)

### Binaries

[apache-jmeter-5.6.3.tgz sha512 pgp](#)  
[apache-jmeter-5.6.3.zip sha512 pgp](#)

### Opening:

### Create Thread Group:



Name	Date modified	Type	Size
jmeter	05-05-2023 13:21	File	9 KB
jmeter	05-05-2023 13:21	Windows Batch File	9 KB

Thread Group

Name: Thread Group

Comments:

Action to be taken after a Sampler error

☒ Continue ☐ Start Next Thread Loop ☐ Stop Thread ☐ Stop Test ☐ Stop Test Now

Thread Properties

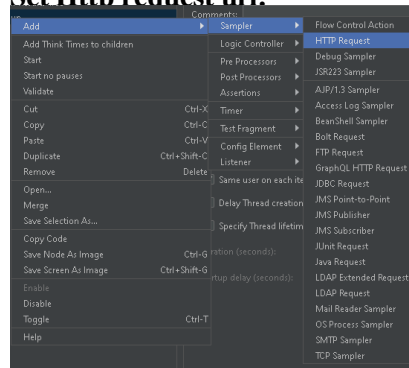
Number of Threads (users): 10

Ramp-up period (seconds): 2

Loop Count: ☐ Infinite ☒ 1

☒ Same user on each iteration

### Set Http request url:



HTTP Request

Name: HTTP Request

Comments:

Basic Advanced

Web Server

Protocol (http): Server Name or IP: www.google.com

HTTP Request

GET Path: /

☐ Redirect Automatically ☒ Follow Redirects ☒ Use KeepAlive ☐ Use multipart/form-data ☐ Browser-compatible headers

### Visualize:

