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AUTOMATE THE WEB APPLICATION USING TESTING SOURCE CODE

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index.html

```
<html><head><title>Results for Default
suite</title></head>
<frameset cols="26%,74%">
<frame src="toc.html" name="navFrame">
<frame src="main.html" name="mainFrame">
</frameset>
</html>
```

Emailable-report.html

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
"https://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
<html xmlns="https://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="content-type" content="text/html;
charset=UTF-8"/>
<title>TestNG Report</title>
<style type="text/css">table {margin-bottom:10px;border-
collapse:collapse;empty-cells:show}th,td {border:1px
solid #009;padding:.25em .5em}th {vertical-
align:bottom}td {vertical-align:top}table a {font-
weight:bold}.stripe td {background-color: #E6EBF9}.num
{text-align:right}.passedodd td {background-color:
#3F3}.passedeven td {background-color: #0A0}.skippedodd
td {background-color: #DDD}.skippedeven td {background-
color: #CCC}.failedodd td,.attn {background-color:
#F33}.failedeven td,.stripe .attn {background-color:
#D00}.stacktrace {white-space:pre;font-
family:monospace}.totop {font-size:85%;text-
```

```

align:center;border-bottom:2px solid #000}.invisible
{display:none}</style>
</head>
<body>
<table>
<tr><th>Test</th><th># Passed</th><th>#
Skipped</th><th># Retried</th><th># Failed</th><th>Time
(ms)</th><th>Included Groups</th><th>Excluded
Groups</th></tr>
<tr><th colspan="8">Default suite</th></tr>
<tr><td><a href="#t0">Default test</a></td><td
class="num">3</td><td class="num">0</td><td
class="num">0</td><td class="num">0</td><td
class="num">14,871</td><td></td><td></td></tr>
</table>
<table
id='summary'><thead><tr><th>Class</th><th>Method</th><th>
>Start</th><th>Time (ms)</th></tr></thead><tbody><tr><th
colspan="4">Default suite</th></tr></tbody><tbody
id="t0"><tr><th colspan="4">Default test &#8212;
passed</th></tr><tr class="passedeven"><td
rowspan="3">com.ecom.webapp.SoftAssertWithSimplilearnLog
In</td><td><a href="#m0">launchChromeTest</a></td><td
rowspan="1">1622223576846</td><td
rowspan="1">10891</td></tr><tr class="passedeven"><td><a
href="#m1">testSimplilearnHomePageTitle</a></td><td
rowspan="1">1622223587744</td><td
rowspan="1">12</td></tr><tr class="passedeven"><td><a
href="#m2">testSimplilearnLogin</a></td><td
rowspan="1">1622223587757</td><td
rowspan="1">3915</td></tr></tbody>

```

```

</table>
<h2>Default test</h2><h3
id="m0">com.ecom.webapp.SoftAssertWithSimplilearnLogIn#l
aunchChromeTest</h3><table class="result"><tr><th
class="invisible"/></tr></table><p class="totop"><a
href="#summary">back to summary</a></p>
<h3
id="m1">com.ecom.webapp.SoftAssertWithSimplilearnLogIn#t
estSimplilearnHomePageTitle</h3><table
class="result"><tr><th
class="invisible"/></tr></table><p class="totop"><a
href="#summary">back to summary</a></p>
<h3
id="m2">com.ecom.webapp.SoftAssertWithSimplilearnLogIn#t
estSimplilearnLogin</h3><table class="result"><tr><th
class="invisible"/></tr></table><p class="totop"><a
href="#summary">back to summary</a></p>
</body>
</html>

```

Testng-results.html

```

<?xml version="1.0" encoding="UTF-8"?>
<testng-results ignored="0" total="3" passed="3"
failed="0" skipped="0">
  <reporter-output>
  </reporter-output>
  <suite started-at="2021-05-28T23:09:36 IST"
name="Default suite" finished-at="2021-05-28T23:09:51
IST" duration-ms="14871">

```

```
<groups>
  <group name="ChromeOnly">
    <method
signature="SoftAssertWithSimplilearnLogIn.launchChromeTe
st()[pri:0,
instance:com.ecom.webapp.SoftAssertWithSimplilearnLogIn@
6d3a388c]" name="launchChromeTest"
class="com.ecom.webapp.SoftAssertWithSimplilearnLogIn"/>
    <method
signature="SoftAssertWithSimplilearnLogIn.testSimplilear
nHomePageTitle()[pri:1,
instance:com.ecom.webapp.SoftAssertWithSimplilearnLogIn@
6d3a388c]" name="testSimplilearnHomePageTitle"
class="com.ecom.webapp.SoftAssertWithSimplilearnLogIn"/>
    <method
signature="SoftAssertWithSimplilearnLogIn.testSimplilear
nLogin()[pri:1,
instance:com.ecom.webapp.SoftAssertWithSimplilearnLogIn@
6d3a388c]" name="testSimplilearnLogin"
class="com.ecom.webapp.SoftAssertWithSimplilearnLogIn"/>
  </group> <!-- ChromeOnly -->
</groups>
<test started-at="2021-05-28T23:09:36 IST"
name="Default test" finished-at="2021-05-28T23:09:51
IST" duration-ms="14871">
  <class
name="com.ecom.webapp.SoftAssertWithSimplilearnLogIn">
    <test-method
signature="launchChromeTest()[pri:0,
instance:com.ecom.webapp.SoftAssertWithSimplilearnLogIn@
6d3a388c]" started-at="2021-05-28T23:09:36 IST"
```

```

name="launchChromeTest" finished-at="2021-05-28T23:09:47
IST" duration-ms="10891" status="PASS">
    <reporter-output>
    </reporter-output>
</test-method> <!-- launchChromeTest -->
<test-method
signature="testSimplilearnHomePageTitle()[pri:1,
instance:com.ecom.webapp.SoftAssertWithSimplilearnLogIn@
6d3a388c]" started-at="2021-05-28T23:09:47 IST"
name="testSimplilearnHomePageTitle" finished-at="2021-
05-28T23:09:47 IST" depends-on-
methods="com.ecom.webapp.SoftAssertWithSimplilearnLogIn.
launchChromeTest" duration-ms="12" status="PASS">
    <reporter-output>
    </reporter-output>
</test-method> <!-- testSimplilearnHomePageTitle
-->
    <test-method
signature="testSimplilearnLogin()[pri:1,
instance:com.ecom.webapp.SoftAssertWithSimplilearnLogIn@
6d3a388c]" started-at="2021-05-28T23:09:47 IST"
name="testSimplilearnLogin" finished-at="2021-05-
28T23:09:51 IST" depends-on-
methods="com.ecom.webapp.SoftAssertWithSimplilearnLogIn.
launchChromeTest" duration-ms="3915" status="PASS">
    <reporter-output>
    </reporter-output>
</test-method> <!-- testSimplilearnLogin -->
</class> <!--
com.ecom.webapp.SoftAssertWithSimplilearnLogIn -->
</test> <!-- Default test -->

```

```
</suite> <!-- Default suite -->
</testng-results>
```

Testng-failed.html

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "https://testng.org/testng-
1.0.dtd">
<suite name="Failed suite [Default suite]" guice-
stage="DEVELOPMENT">
  <test thread-count="5" name="Default test(failed)">
    <classes>
      <class
name="com.ecom.webapp.SoftAssertWithSimplilearnLogIn">
        <methods>
          <include name="launchChromeTest"/>
          <include name="testSimplilearnHomePageTitle"/>
        </methods>
      </class> <!--
com.ecom.webapp.SoftAssertWithSimplilearnLogIn -->
    </classes>
  </test> <!-- Default test(failed) -->
</suite> <!-- Failed suite [Default suite] -->
```

Testng-reports.js

```
$(document).ready(function() {
  $('a.navigator-link').on("click", function() {
    // Extract the panel for this link
    var panel = getPanelName($(this));
```

```
        // Mark this link as currently selected
        $('navigator-
link').parent().removeClass('navigator-selected');
        $(this).parent().addClass('navigator-selected');

        showPanel(panel);
    });

    installMethodHandlers('failed');
    installMethodHandlers('skipped');
    installMethodHandlers('passed', true); // hide
passed methods by default

    $('a.method').on("click", function() {
        showMethod($(this));
        return false;
    });

    // Hide all the panels and display the first one (do
this last
    // to make sure the click() will invoke the
listeners)
    $('.panel').hide();
    $('navigator-link').first().trigger("click");

    // Collapse/expand the suites
    $('a.collapse-all-link').on("click", function() {
        var contents = $('.navigator-suite-content');
        if (contents.css('display') == 'none') {
            contents.show();
        }
    });
}
```



```

        } else {
            contents.hide();
        }
    });
});

// The handlers that take care of showing/hiding the
// methods
function installMethodHandlers(name, hide) {
    function getContent(t) {
        return $('<code>.method-list-content.</code>' + name + "<code>."</code> +
t.attr('<code>panel-name</code>'));
    }

    function getHideLink(t, name) {
        var s = '<code>a.hide-methods.</code>' + name + "<code>."</code> +
t.attr('<code>panel-name</code>');
        return $(s);
    }

    function getShowLink(t, name) {
        return $('<code>a.show-methods.</code>' + name + "<code>."</code> +
t.attr('<code>panel-name</code>'));
    }

    function getMethodPanelClassSel(element, name) {
        var panelName = getPanelName(element);
        var sel = '<code>.</code>' + panelName + "<code>-class-</code>" + name;
        return $(sel);
    }
}

```

```
$( 'a.hide-methods.' + name ).on( "click", function() {
    var w = getContent( $(this) );
    w.hide();
    getHideLink( $(this), name ).hide();
    getShowLink( $(this), name ).show();
    getMethodPanelClassSel( $(this), name ).hide();
});

$( 'a.show-methods.' + name ).on( "click", function() {
    var w = getContent( $(this) );
    w.show();
    getHideLink( $(this), name ).show();
    getShowLink( $(this), name ).hide();
    showPanel( getPanelName( $(this) ) );
    getMethodPanelClassSel( $(this), name ).show();
});

if (hide) {
    $( 'a.hide-methods.' + name ).trigger( "click" );
} else {
    $( 'a.show-methods.' + name ).trigger( "click" );
}

}

function getHashForMethod(element) {
    return element.attr( 'hash-for-method' );
}

function getPanelName(element) {
    return element.attr( 'panel-name' );
}
```

```
function showPanel(panelName) {
    $('.panel').hide();
    var panel = $('.panel[panel-name="' + panelName +
    '"']');
    panel.show();
}

function showMethod(element) {
    var hashTag = getHashForMethod(element);
    var panelName = getPanelName(element);
    showPanel(panelName);
    var current = document.location.href;
    var base = current.substring(0,
current.indexOf('#'))
    document.location.href = base + '#' + hashTag;
    var newPosition = $(document).scrollTop() - 65;
    $(document).scrollTop(newPosition);
}

function drawTable() {
    for (var i = 0; i < suiteTableInitFunctions.length;
i++) {
        window[suiteTableInitFunctions[i]]();
    }

    for (var k in window.suiteTableData) {
        var v = window.suiteTableData[k];
        var div = v.tableDiv;
        var data = v.tableData
```

```

        var table = new
google.visualization.Table(document.getElementById(div))
;
        table.draw(data, {
            showRowNumber : false
        });
    }
}

```

Pom.xml

```

<?xml version="1.0" encoding="UTF-8"?>

<project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/xsd/maven-4.0.0.xsd">
    <modelVersion>4.0.0</modelVersion>

    <groupId>com.ecom.webapp</groupId>
    <artifactId>phase-5-selenium-testng</artifactId>
    <version>0.0.1-SNAPSHOT</version>

    <name>phase-5-selenium-testng</name>
    <!-- FIXME change it to the project's website -->
    <url>http://www.example.com</url>

    <properties>
        <project.build.sourceEncoding>UTF-
8</project.build.sourceEncoding>

```

```

    <maven.compiler.source>1.7</maven.compiler.source>
    <maven.compiler.target>1.7</maven.compiler.target>
</properties>

<dependencies>
  <!-- Add testing maven dependency-->
  <dependency>
    <groupId>org.testng</groupId>
    <artifactId>testng</artifactId>
    <version>7.3.0</version>
    <scope>test</scope>
  </dependency>

  <!-- selenium-java -->
  <dependency>
    <groupId>org.seleniumhq.selenium</groupId>
    <artifactId>selenium-java</artifactId>
    <version>3.141.59 </version>
  </dependency>
</dependencies>

</project>

```

Classes.html

```

<table border='1'>
<tr>
<th>Class name</th>
<th>Method name</th>
<th>Groups</th>

```

```

</tr><tr>
<td>com.ecom.webapp.SoftAssertWithSimplilearnLogIn</td>
<td>&nbsp;</td><td>&nbsp;</td></tr>
<tr>
<td align='center' colspan='3'>@Test</td>
</tr>
<tr>
<td>&nbsp;</td>
<td>launchChromeTest</td>
<td>ChromeOnly </td>
</tr>
<tr>
<td>&nbsp;</td>
<td>testSimplilearnLogin</td>
<td>ChromeOnly </td>
</tr>
<tr>
<td>&nbsp;</td>
<td>testSimplilearnHomePageTitle</td>
<td>ChromeOnly </td>
</tr>
<tr>
<td align='center' colspan='3'>@BeforeClass</td>
</tr>
<tr>
<td align='center' colspan='3'>@BeforeMethod</td>
</tr>
<tr>
<td align='center' colspan='3'>@AfterMethod</td>
</tr>
<tr>

```



```

</td><td>&nbsp;</td><td
title="SoftAssertWithSimplilearnLogIn.testSimplilearnHom
ePageTitle()[pri:1,
instance:com.ecom.webapp.SoftAssertWithSimplilearnLogIn@
6d3a388c]">testSimplilearnHomePageTitle</td>
  <td>main@1158258131</td>  <td></td> </tr>
<tr bgcolor="88d8b8">  <td>21/05/28 23:09:47</td>
<td>10912</td>
<td>&nbsp;</td><td>&nbsp;</td><td>&nbsp;</td><td>&nbsp;</td><td>&nbsp;</td><td>&nbsp;</td><td>&nbsp;</td>
title="SoftAssertWithSimplilearnLogIn.testSimplilearnLog
in()[pri:1,
instance:com.ecom.webapp.SoftAssertWithSimplilearnLogIn@
6d3a388c]">testSimplilearnLogin</td>
  <td>main@1158258131</td>  <td></td> </tr>
</table>

```

Toc.html

```

<html>
<head>
<title>Results for Default suite</title>
<link href="../testng.css" rel="stylesheet"
type="text/css" />
<link href="../my-testng.css" rel="stylesheet"
type="text/css" />
</head>
<body>
<h3><p align="center">Results for<br/><em>Default
suite</em></p></h3>

```



```

<table border='1' width='100%'>
<tr valign='top'>
<td>1 test</td>
<td><a target='mainFrame' href='classes.html'>1
class</a></td>
<td>3 methods:<br/>
&nbsp;&nbsp;&nbsp;<a target='mainFrame'
href='methods.html'>chronological</a><br/>
&nbsp;&nbsp;&nbsp;<a target='mainFrame' href='methods-
alphabetical.html'>alphabetical</a><br/>
&nbsp;&nbsp;&nbsp;<a target='mainFrame' href='methods-not-
run.html'>not run (0)</a></td>
</tr>
<td><a target='mainFrame' href='groups.html'>1
group</a></td>
<td><a target='mainFrame' href='reporter-
output.html'>reporter output</a></td>
<td><a target='mainFrame'
href='testng.xml.html'>testng.xml</a></td>
</tr></table>
<table width='100%' class='test-passed'>
<tr><td>
<table style='width: 100%'><tr><td valign='top'>Default
test (3/0/0)</td><td valign='top' align='right'>
  <a href='Default test.html'
target='mainFrame'>Results</a>
</td></tr></table>
</td></tr><p/>
</table>
</body></html>

```

AssertionsTest.java

```
package com.ecom.webapp;

import static org.testng.Assert.assertEquals;

import org.testng.annotations.Test;
import org.testng.asserts.SoftAssert;

public class AssertionsTest {
    //Hard Assert: Hard assert throws an AssertionError
    immediately when an assert statement fails and
    //test suite continues with next @Test

    @Test
    public void hardAssert() {
        System.out.println("-- Hard Assert Method was
started... --");
        assertEquals(true, false); //Assertion Error
        System.out.println("-- Hard Assert Is Completed.
----");
    }

    //Soft Assert :: Soft assert collects errors during
@Test.
    //Soft assert does not throw an exception when an
assert fails.

    @Test
    public void softAssert() {
        SoftAssert softAssert = new SoftAssert();
```

```
        System.out.println("-- Soft Assert Method was  
started --");  
        softAssert.assertEquals(true, false);  
        softAssert.assertTrue(false);  
        System.out.println("-- Soft Assert Method Was  
Completed --");  
    }  
  
}
```

TestNGGroupTest.java

```
package com.ecom.webapp;  
  
import org.testng.annotations.Test;  
import org.testng.annotations.BeforeMethod;  
  
import static org.testng.Assert.assertEquals;  
  
import org.openqa.selenium.WebDriver;  
import org.openqa.selenium.chrome.ChromeDriver;  
import org.openqa.selenium.edge.EdgeDriver;  
import org.testng.annotations.AfterMethod;  
//Let's do some Test Cases Evaluated in Chrome browser  
and some in MicrosoftEdge Browser  
public class TestNgGroupTest {  
  
    final String amazonURL = "https://www.amazon.in/";  
    final String simplilearnURL =  
"https://www.simplilearn.com/";
```

```
    final String chromeDriverPath
="driver\\chromedriver.exe";
    final String mirosoftedgeDriverPath
="driver\\msedgedriver.exe";

    WebDriver driver1;
    WebDriver driver2;

    //Chrome browser test -> Group Chrome Test

    @Test(groups="ChromeOnly")
    public void launchChromeTest() {

System.setProperty("webdriver.chrome.driver",chromeDrive
rPath );
        driver1 = new ChromeDriver();
        driver1.get(amazonURL);
    }

    @Test(groups="ChromeOnly",
dependsOnMethods="launchChromeTest", priority=1)
    public void testAmazonHomePage() {
        String expected = "Online Shopping site in India:
Shop Online for Mobiles, Books, Watches, Shoes and More
- Amazon.in";
        assertEquals(expected,driver1.getTitle());
    }
```

```

    @Test(groups="ChromeOnly",
dependsOnMethods="launchChromeTest",priority=2)
    public void testAmazonSourceURL() {
        assertEquals(amazonURL,driver1.getCurrentUrl());
        driver1.close();
    }

    //Microsoft Edge Test -> Group Microsoft Edge Test
    @Test(groups="MicrosoftEdgeOnly")
    public void launchMicrosoftEdgeTest() {

System.setProperty("webdriver.edge.driver",mirosoftedgeD
riverPath );
        driver2 = new EdgeDriver();
        driver2.get(simplilearnURL);
    }

@Test(groups="MicrosoftEdgeOnly",dependsOnMethods="launc
hMicrosoftEdgeTest", priority=1)
    public void testSimplilearnHomePageTitle() {
        String expected = "World's #1 Online Bootcamp &
Certification Course Provider | Simplilearn";
        assertEquals(expected, driver2.getTitle());
    }

    @Test(groups="MicrosoftEdgeOnly",
dependsOnMethods="launchMicrosoftEdgeTest",priority=2)
    public void testSimplilearnSourceURL() {

assertEquals(simplilearnURL,driver2.getCurrentUrl());

```

```
        driver2.close();
    }

}
```

TestNGStandardAnnotations.java

```
package com.ecom.webapp;

import org.testng.annotations.AfterClass;
import org.testng.annotations.AfterMethod;
import org.testng.annotations.AfterSuite;
import org.testng.annotations.BeforeClass;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.BeforeSuite;
import org.testng.annotations.Test;

public class TestNgStandardAnnotationsTest {

    @BeforeSuite
    public void beforeSuite() {

        System.out.println("--- Before Suite Is
Executed---");
    }

    @AfterSuite
    public void afterSuite() {
        System.out.println("--- After Suite Is Executed
---");
    }
}
```

```
}

@BeforeClass
public void beforeClass() {

    System.out.println("--- Before Class Is Executed
---");

}

@AfterClass
public void afterClass() {

    System.out.println("--- After Class Is Executed
---");

}

@BeforeMethod
public void setUpBeForEachTest() {
    System.out.println("--- Before Method Is
Executed ---");
}

@AfterMethod
public void tearDownAfterEachTest() {
    System.out.println("---After Method Is Executed
---");
}

@Test
```

```
public void testOne() {
    System.out.println("-- Test 1 method is executed
! --");

}

@Test
public void testTwo() {
    System.out.println("-- Test 2 method is executed
! --");

}

@Test
public void testThree() {
    System.out.println("-- Test 3 method is executed
! --");

}

}
```

*****THE END*****

X=====X=====X