

Practical no 3

AIM: Write and test a program to login a specific web page using JUnit.

Theory**What is Junit**

The JUnit Platform serves as a foundation for launching testing frameworks on the JVM. It also defines the TestEngine API for developing a testing framework that runs on the platform. Furthermore, the platform provides a Console Launcher to launch the platform from the command line and a JUnit 4 based Runner for running any TestEngine on the platform in a JUnit 4 based environment. First-class support for the JUnit Platform also exists in popular IDEs like eclipse.

Annotations Used in Junit

@Test Denotes that a method is a test method. Unlike JUnit 4's @Test annotation, this annotation does not declare any attributes, since test extensions in JUnit Jupiter operate based on their own dedicated annotations. Such methods are inherited unless they are overridden.

@BeforeAll Denotes that the annotated method should be executed before all @Test, @RepeatedTest, @ParameterizedTest, and @TestFactory methods in the current class; analogous to JUnit 4's @BeforeClass.

@AfterAll Denotes that the annotated method should be executed after all @Test, @RepeatedTest, @ParameterizedTest, and @TestFactory methods in the current

class; analogous to JUnit 4's @AfterClass.

@BeforeEach Denotes that the annotated method should be executed before each @Test, @RepeatedTest, @ParameterizedTest, or @TestFactory method in the current class; analogous to JUnit 4's @Before. Such methods are inherited unless they are overridden.

@AfterEach Denotes that the annotated method should be executed after each @Test, @RepeatedTest, @ParameterizedTest, or @TestFactory method in the current class; analogous to JUnit 4's @After. Such methods are inherited unless they are overridden.

Steps for Testing a site using Junit

Step-1 :- Create a new Project and give it a name.

Step-2 :- After the initialization create a new package inside the project and give it a name.

Step-3 :- To include the libraries and ".jar" files, Unzip the zipped archives, next "right click on the project icon → Build Path → Configure Build Path.."

Step-4 :- Here we will choose "Add External JARs..." button and navigate to the ".jar" file we downloaded/extracted and select them to include in our project.

Step-5 :- Save the configuration. You have successfully installed selenium for java.

Step-6 :- For linking the chrome driver you need to include it in the code by adding a Line `System.setProperty("webdriver.chrome.driver","chromedriver path");`

Step-7 :- Next create a new JUnit Test Case file give it a name.

Step-8 :- Import the following libraries

```
import org.junit.Test;
```

```
import org.openqa.selenium.By;
```

```
import org.openqa.selenium.chrome.ChromeDriver;
```

```
import org.openqa.selenium.WebDriver;  
import static org.junit.Assert.*;  
import org.junit.Before;  
import org.junit.After;  
import junit.framework.Assert;
```

Step-9 :- Add the code.

Code:-

```
import static org.junit.Assert.*;  
import org.junit.After;  
import org.junit.Assert;  
import org.junit.Before;  
import org.junit.Test;  
import org.openqa.selenium.By;  
import org.openqa.selenium.WebDriver;  
import org.openqa.selenium.chrome.ChromeDriver;  
  
public class JunitEx {  
    WebDriver driver = null;  
    @Before  
    public void setup() {  
        System.setProperty("webdriver.chrome.driver" , "E:\\tycs\\stqa  
prac\\prac3\\chromedriver_win32\\chromedriver.exe" );  
        driver = new ChromeDriver();  
        driver.manage().window().maximize();  
    }  
}
```

```
}
```

```
@Test
```

```
public void test() throws InterruptedException {
```

```
    driver.get("http://thedemosite.co.uk/savedata.php");
```

```
    driver.findElement(By.xpath("//input[@name='username']")).sendKeys("krunal71");
```

```
    Thread.sleep(1000);
```

```
    driver.findElement(By.xpath("//input[@name='password']")).sendKeys("kd713");
```

```
    Thread.sleep(1000);
```

```
    driver.findElement(By.xpath("//input[@name='FormsButton2']")).click();
```

```
    Thread.sleep(1000);
```

```
    Thread.sleep(2000);
```

```
    Assert.assertTrue("invalid credential" , driver.getTitle().contains("Add a user -  
FREE PHP code and SQL"));
```

```
    System.out.println(" page title is verified user is able to login ");
```

```
}
```

```
@Test
```

```
public void demotest() throws InterruptedException {
```

```
    driver.get("http://demo.guru99.com/test/newtours/");
```

```
    driver.findElement(By.xpath("//input[@name='userName']")).sendKeys("krunal713");
```

```
    Thread.sleep(1000);
```

```
    driver.findElement(By.xpath("//input[@name='password']")).sendKeys("kd713");
```

```
Thread.sleep(1000);
driver.findElement(By.xpath("//input[@name='submit']")).click();
Thread.sleep(1000);
Thread.sleep(2000);
Assert.assertTrue("invalid credential" , driver.getTitle().contains("Welcome:
Mercury Tours"));
System.out.println(" page title is verified user is able to login ");
}

@After
public void aftertest(){
    driver.quit();
}
}
```

Output:

```
<terminated> JUnitEx [JUnit] C:\Program Files\Java\jdk-14.0.2\bin\javaw.exe (Sep 4, 2020, 1:43:03 PM – 1:43:43 PM)
Starting ChromeDriver 2.41.578737 (49da6702b16031c40d63e5618de03a32ff6c197e) on port 2768
Only local connections are allowed.
[1599207188.998][WARNING]: Timed out connecting to Chrome, retrying...
Sep 04, 2020 1:43:11 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: OSS
[1599207193.113][WARNING]: Timed out connecting to Chrome, retrying...
page title is verified user is able to login
Starting ChromeDriver 2.41.578737 (49da6702b16031c40d63e5618de03a32ff6c197e) on port 23760
Only local connections are allowed.
[1599207205.589][WARNING]: Timed out connecting to Chrome, retrying...
Sep 04, 2020 1:43:27 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: OSS
[1599207209.611][WARNING]: Timed out connecting to Chrome, retrying...
page title is verified user is able to login
```



Chrome is being controlled by automated test software.

TheDemoSite.co.uk sample code: [ASP and MySQL](#) - [PHP and MySQL](#) - [phpFormMailer](#) - [ASP Contact form](#)

PHP and MySQL sample code

Just examples of PHP code, linking to your MySQL database and JavaScript.
[1. Home](#) | [2. The Database](#) | [3. Add a User](#) | [4. Login](#) | [5. Get your db online](#)

All code updated April 2014, now uses PHP/PDO for database connectivity

3. Add a User

Below is the current single record within the database:

The username: Amey
The password: 95943

Add your own username and password, enter your details below and click save. **DO NOT** use valid details as the information you enter will be displayed above and the next visitor will be able to view them as you are now.

Add Your test username:	<input type="text" value="krunal713"/>	Help
Add Your test password:	<input type="password" value="....."/>	Help
	<input type="button" value="save"/>	Help

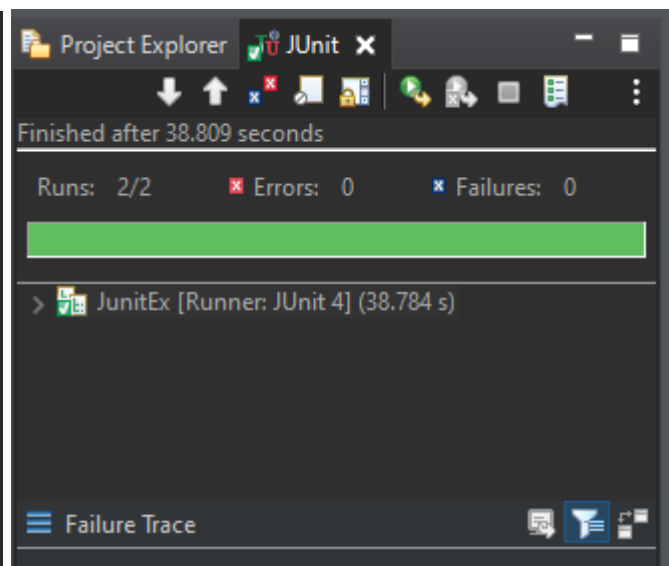
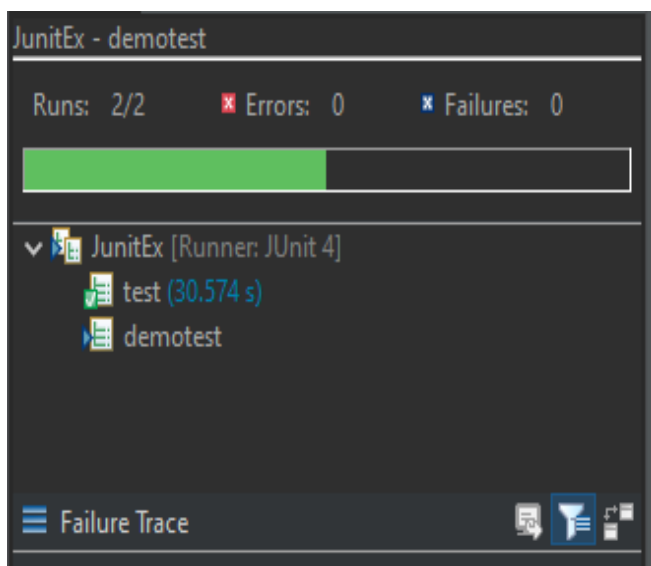
When you have added your own username and password [move onto the Login page to test it!](#)

[Click here to view the PHP and JavaScript code](#) used for this page, or [download the free zip here](#)

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Chrome is being controlled by automated test software.

GURU⁹⁹ Demo Site

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