

Automate a Web Application.

DESCRIPTION

Project Objective:

As a Full Stack Developer, you have to build an automation script that automated the basic functionalities like registration and login.

Background of the problem statement:

As the project is in the final stage, management has asked you to automate the basic functionalities like registration and login for all the internal employees. This will help the development and DevOps team to work efficiently with the application.

Steps for Login Automation using Selenium WebDriver

Before performing automation testing for the login functionality, there are a couple of basic steps that need to be followed for the test case to be written:

- Create a Selenium WebDriver instance

- Configure browser if required

- Navigate to the required web page

- Locate the relevant web element

- Perform action on the web element

- Verify and validate the action

Now let's walk through each of these steps in detail.

1. Create a Selenium WebDriver instance

To launch the website in the desired browser, set the system properties to the path of the driver for the required browser. This example will use [ChromeDriver](#) for Login Automation using Selenium Webdriver. The syntax for the same will be:

```
Webdriver driver = new ChromeDriver();
```

```
System.setProperty("webdriver.chrome.driver", "Path of the  
chrome driver");
```

2. Configure the Web browser

Usually, the web page will be in a minimized format when the test case is run. Maximize the browser for a clear picture of the test cases executed. Use the command below to do the same:

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

3. Navigate to the web URL

Open the browser with the desired URL. Use the command below to open the URL in the desired instantiated browser:

```
driver.get("https://www.browserstack.com/users/sign_in");
```

4. Locating the Web Element

[Locators](#) are an essential part of every [Selenium script](#) as they identify the elements that the test script will interact with to replicate user actions.

For example, let's try to locate the email and password field of the login form of [Browserstack sign in](#) page.