

Web elements in Selenium

This document records the execution of the web elements section of the final assessment

Question

Web Elements - Find the web elements using Locators (Id, Name and XPath)

- A. Elements present on Login page
- B. Elements present on Dashboards (pick any 4 elements, mention name of elements and find using above mentioned locators)

Web elements locators in Selenium

A locator enables testers to select an HTML DOM element to act on. Selenium supports a total of 8 web element locators

- i) Id
- ii) Name
- iii) className
- iv) tagName
- v) linkText
- vi) partialLinkText
- vii) CSS selector
- viii) xpath.

Locating elements on the login page with Xpath, name and Id selector

The login page elements selected for the automation are the

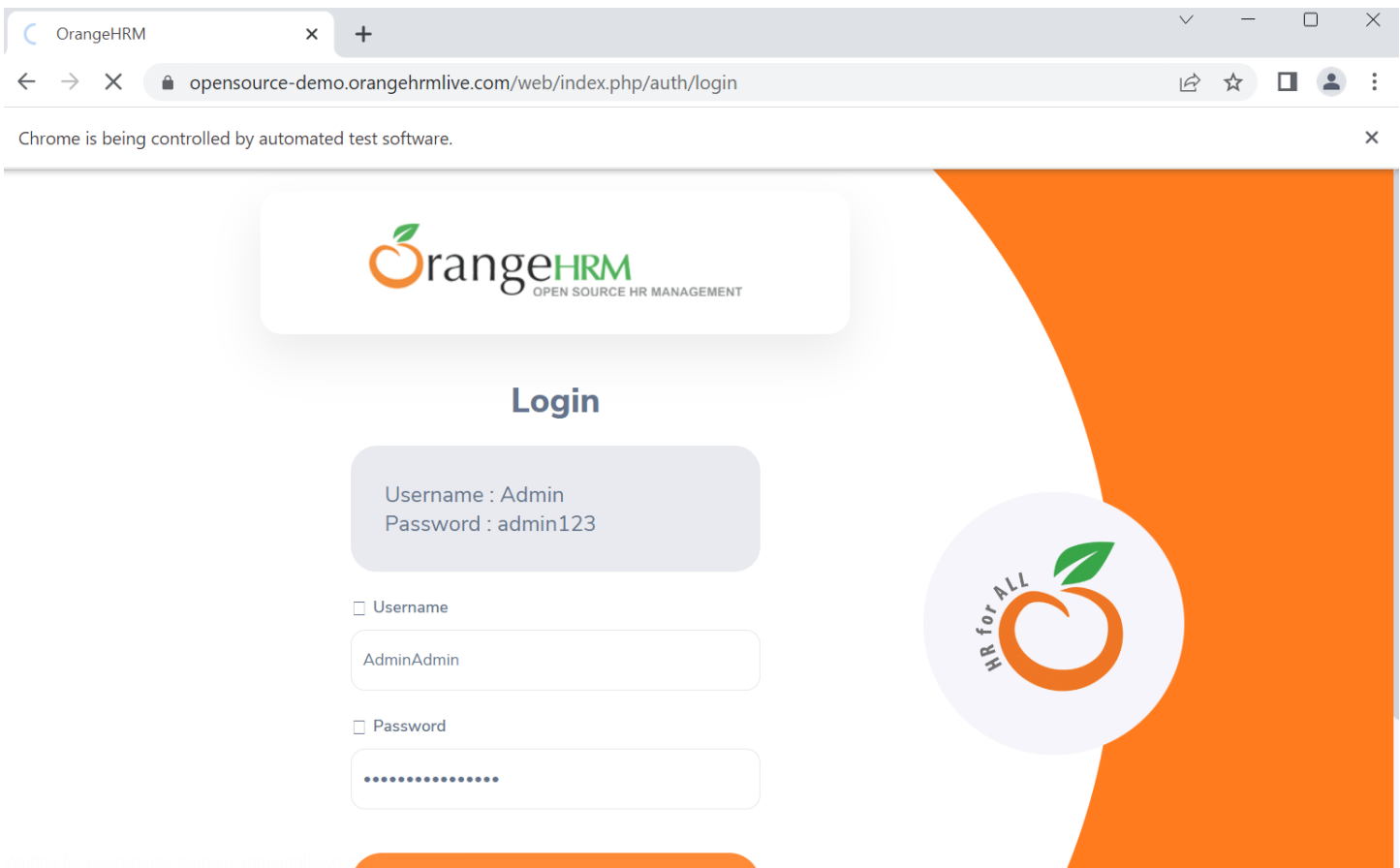
- i) username field
 - ii) password field
 - iii) login button
 - iv) forgot password option
-
- a) From line 12-15, we are setting up the chrome driver
 - b) In line 21 and 22 we are targeting the username and password field using the name locator
 - c) The Id locator isn't present for these web element
 - d) From line 28 to 31, we use xpath to locate all the 4 elements selected above.

```

Login_Page.java x Dashboard_Page.java
1 package web_elements;
2
3 import java.util.concurrent.TimeUnit;
4
5 public class Login_Page {
6
7     public static void main(String[] args) {
8         System.setProperty("webdriver.chrome.driver", "C:\\brayan1\\chromedriver.exe");
9         WebDriver driver = new ChromeDriver();
10        driver.manage().timeouts().implicitlyWait(100, TimeUnit.SECONDS);
11        driver.get(" https://opensource-demo.orangehrmlive.com/web/index.php/pim/viewEmployeeList");
12
13        // The fields present on the login page are: Username and password (Test fields) and Login (button) and forgot password
14
15        //Targetting a field using name attribute
16
17        driver.findElement(By.name("username")).sendKeys("Admin"); // Username field
18        driver.findElement(By.name("password")).sendKeys("admin123"); // password field
19
20        //For login and forgot password, there is no name attribute or Id attribute, so they can be targetted using Xpath.
21
22        //Targetting all the fields using xpath
23
24        driver.findElement(By.xpath("//input[@name='username']")).sendKeys("Admin"); // username field
25        driver.findElement(By.xpath("//input[@name='password']")).sendKeys("admin123"); // password field
26        driver.findElement(By.xpath("//button")).click(); // login button
27        driver.findElement(By.xpath("//div[@class='orangehrm-login-forgot']/p")).click(); // forgot password
28
29        //
30
31    }
32
33 }
34
35
36
37
38
39
40

```

Automation output



OrangeHRM

opensource-demo.orangehrmlive.com/web/index.php/pim/viewEmployeeList

Chrome is being controlled by automated test software.

orangeHRM

PIM

Paul Collings

Configuration Employee List Add Employee Reports

Search

Admin

PIM

Leave

Time

Recruitment

My Info

Performance

Dashboard

Directory

Employee Information

Employee Name	Employee Id	Employment Status	Include
<input type="text" value="Type for hints..."/>	<input type="text"/>	-- Select --	Current Empl...
Supervisor Name	Job Title	Sub Unit	
<input type="text" value="Type for hints..."/>	-- Select --	-- Select --	

Reset Search

Waiting for opensource-demo.orangehrmlive.com

OrangeHRM

opensource-demo.orangehrmlive.com/web/index.php/auth/requestPasswordResetCode

Chrome is being controlled by automated test software.

Reset Password

Please enter your username to identify your account to reset your password

☐ Username

Cancel Reset Password

OrangeHRM OS 5.1
© 2005 - 2022 OrangeHRM, Inc. All rights reserved.

Locating elements on the Dashboard page using the name, Id and Xpath locator

The 4 sidebar menu elements selected to be located are:

- i) Leave
 - ii) Time
 - iii) Recruitment
 - iv) My Info
-
- a) In line 23 to 25, we login into OrangeHRM using the Xpath locators
 - b) Once we login and get into the dashboard, from line 35 to 38, we use the Xpath locator to locate the above-mentioned sidebar menu elements. The name and Id attribute is not present for these elements
 - c) Alternatively, we can also use the link text locator to locate anchor tags and hyperlinks. From line 46 – 49, we use the link text locator to locate the above-mentioned elements


```
1 Login_Page.java 2 Dashboard_Page.java x
8
9 public class Dashboard_Page {
10
11 public static void main(String[] args) {
12
13
14
15     System.setProperty("webdriver.chrome.driver", "C:\\brayan1\\chromedriver.exe");
16     WebDriver driver = new ChromeDriver();
17     driver.manage().timeouts().implicitlyWait(100, TimeUnit.SECONDS);
18     driver.get(" https://opensource-demo.orangehrmlive.com/web/index.php/pim/viewEmployeeList");
19
20
21     //Logging into the Orange HRM
22
23     driver.findElement(By.xpath("//input[@name='username']")).sendKeys("Admin"); //Entering Username
24     driver.findElement(By.xpath("//input[@name='password']")).sendKeys("admin123"); //Entering Password
25     driver.findElement(By.xpath("//button")).click(); //clicking on login button
26
27
28     //Now we are in the dashboard page
29
30     // The 4 sidebar elements chosen to be targetted are leave , time , recruitment , and myinfo
31
32     //Usually all the elements in HTML won't be having the name and Id attribute, so we can't use the name and Id locator for them
33     //Here also , for the above mentioned elements the name and Id is not present so we will go with xpath
34
35     driver.findElement(By.xpath("//li[3]//a")).click(); //clicking on leave element
36     driver.findElement(By.xpath("//li[4]//a")).click(); //clicking on time element
37     driver.findElement(By.xpath("//li[5]//a")).click(); //clicking on recruitment element
38     driver.findElement(By.xpath("//li[6]//a")).click(); //clicking on myinfo element
39
40
41     // Anoter way of locating the elements is by using linktext. This can be used only when the element to be targetted lies inside
42     //the anchor tag
43
44
45
46     driver.findElement(By.linkText("Leave")).click(); //clicking on leave element
47     driver.findElement(By.linkText("Time")).click(); //clicking on time element
48     driver.findElement(By.linkText("Recruitment")).click(); //clicking on recruitment element
49     driver.findElement(By.linkText("My Info")).click(); //clicking on myinfo element
50
51 }
```

Automation output

OrangeHRM

opensource-demo.orangehrmlive.com/web/index.php/auth/login

Chrome is being controlled by automated test software.



orangeHRM
OPEN SOURCE HR MANAGEMENT

Login


Username : Admin
Password : admin123

Username

Admin

Password


.....



OrangeHRM

opensource-demo.orangehrmlive.com/web/index.php/leave/viewLeaveList

Chrome is being controlled by automated test software.



orangeHRM

Leave

Paul Collings

Apply My Leave Entitlements Reports Configure Leave List More

Search

Admin

PIM

Leave

Time

Recruitment

My Info

Performance

Dashboard

Directory

Leave List

From Date To Date Show Leave with Status* Leave Type

2022-01-... 2022-12-... Select -- Select --

Pending Approval

Employee Name Sub Unit Include Past Employees

Type for hints... -- Select --

* Required

Reset Search

OrangeHRM

opensource-demo.orangehrmlive.com/web/index.php/time/viewEmployeeTimesheet

Chrome is being controlled by automated test software.

orangeHRM

Search

Admin

PIM

Leave

Time

Recruitment

My Info

Performance

Dashboard

Directory

Time / Timesheets

Timesheets

Attendance

Reports

Project Info

Select Employee

Employee Name*

Type for hints...

* Required

View

Timesheets Pending Action

https://opensource-demo.orangehrmlive.com/web/index.php/time/viewTimeModule

OrangeHRM

opensource-demo.orangehrmlive.com/web/index.php/recruitment/viewCandidates

Chrome is being controlled by automated test software.

orangeHRM

Search

Admin

PIM

Leave

Time

Recruitment

My Info

Performance

Dashboard

Directory

Recruitment

Candidates

Vacancies

Candidates

Job Title

Vacancy

Hiring Manager

Status

Candidate Name

Keywords

Date of Application

Method of Application

-- Select --

-- Select --

-- Select --

-- Select --

Type for hints...

Enter comma separate

From

To

-- Select --

Reset

Search

