

Sikuli for UI Testing

This section will guide you to:

- Integrate Sikuli with Selenium WebDriver and interact with web elements

Development Environment:

- Eclipse IDE for Enterprise Java Developers Version Oxygen.3a Release (4.7.3a)
- Java Development Kit Version 8

This guide has mainly four subsections, namely:

4.11.1 Integrating Sikuli with Selenium WebDriver

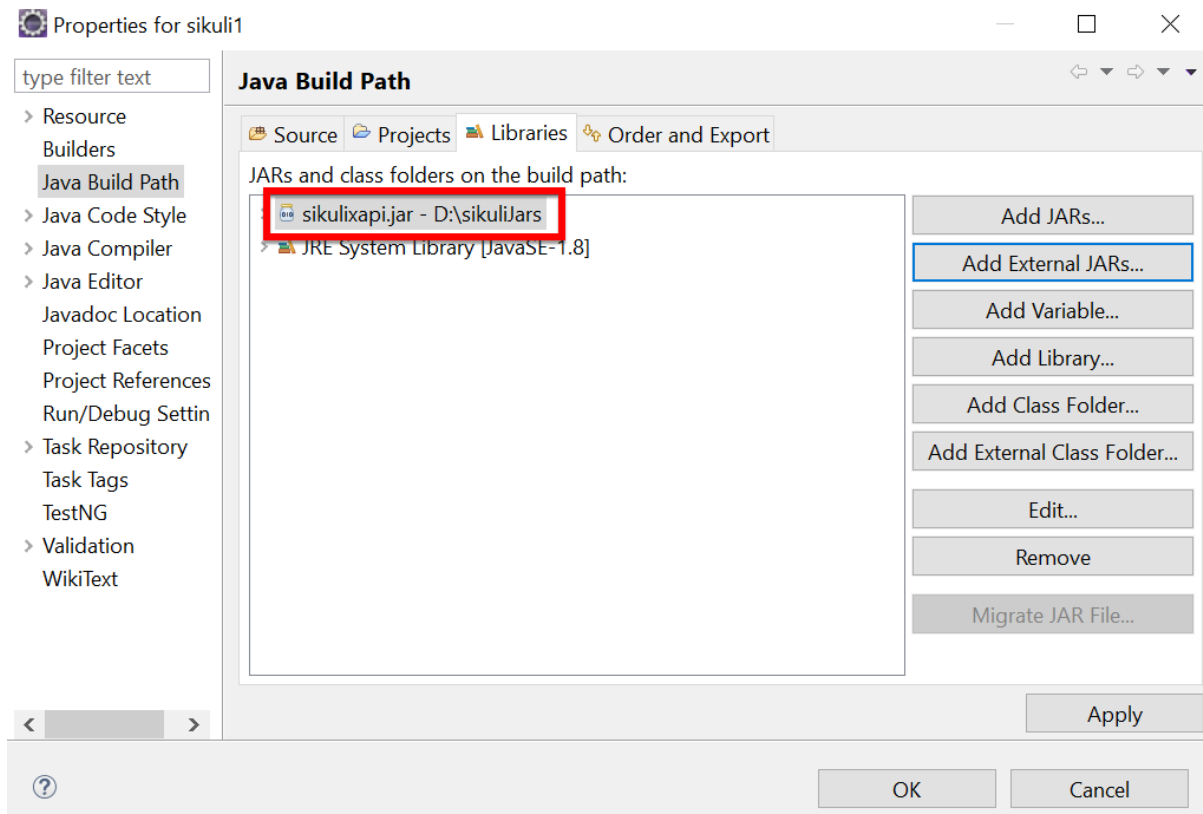
4.11.2 Screen class in Sikuli

4.11.3 Pattern class in Sikuli

4.11.4 Pushing the code to your GitHub repositories

Steps 4.11.1: Integrating Sikuli with Selenium WebDriver

- Sikuli Jar files are already present in your practice labs. To learn about its directory path details, you can refer to the lab guide for Phase 1.
- Open Eclipse and create a new Java project
- Right-click on the project. Navigate through the given path: Build path->Configure build path->Add external Jars.
- Click on **Apply and OK**.



Steps 4.11.2: Screen class in Sikuli

- Screen class is a base class which contains some predefined methods to perform operations, such as click, double click, providing input to the text box and hover, etc.
- Below are the commonly used methods:
 - Click
Syntax: `Screen s = new Screen();`
`s.click("imag.png");`
 - doubleClick
Syntax: `Screen s = new Screen();`
`s.doubleClick("imag.png");`
 - Type
Syntax: `s.type("imag.png", "Text");`
 - Hover
Syntax: `s.hover("imag.png");`
 - Find

Syntax: `s.find("imag.png");`

Steps 4.11.3: Pattern class in Sikuli

- Pattern class is used to associate the image file to identify the element
- Pattern class takes the path of the image as a parameter
- Below are the commonly used methods:

- `getFileName`

Syntax: `Pattern p = new Pattern("D:\Test\imag.png")`

- `Similar`

Syntax: `Pattern p1 = p.similar Pattern("0.7f");`

- `Exact`

Syntax: `Pattern p1 = p.exact();`

The script looks like this:

```
package sikuli1;  
import org.sikuli.script.FindFailed;  
import org.sikuli.script.Pattern;  
import org.sikuli.script.Screen;  
  
public class SikuliClass {  
    public static void main(String[] args ) throws FindFailed {  
        Screen s = new Screen();  
        Pattern p = new  
Pattern("C:\\Users\\Testing\\Desktop\\siluli\\Capture.PNG");  
        s.doubleClick(p);  
    }  
}
```

- Run the script and notice the action performed on the image (The path, which we have mentioned in the script).

Steps 4.11.4: Pushing the code to your GitHub repositories

- Open your command prompt and navigate to the folder where you have created your files.

`cd <folder path>`

- Initialize your repository using the following command:

`git init`

- Add all the files to your git repository using the following command:
`git add .`
- Commit the changes using the following command:
`git commit . -m "Changes have been committed."`
- Push the files to the folder you initially created using the following command:
`git push -u origin master`