

Sikuli (SikuliX API)

- Sikuli is a UI Automation tool which uses **image recognition technique** for automation
 - Sikuli is based on image processing.
 - Sikuli can read the images and on the basis of that it will perform the action or click on that particular element displayed on the image
 - Hence using Sikuli tool we can automate whatever we see on the screen
 - **Major Advantages:**
 - Can automate Desktop/Windows Applications
 - Can automate Flash objects
 - Works on Windows/Linux/Mac/Mobile environments
 - When exactly Sikuli needs to be used:
 - When you are unable to locate a web/desktop/mobile element using general locators like id, name, link text, css selector or xpath, then you have to go for Sikuli
 - Sikuli is now known as **SikuliX API**
 - Lets follow the below steps for implementing Sikuli:
 - Create a new Maven Project in Eclipse IDE
 - Add the SikuliX dependency tags in the pom.xml file
 - <https://mvnrepository.com/artifact/com.sikulix/sikulixapi/1.1.2>
 - Add the Selenium dependency tags in the pom.xml file
 - Add the dependency tags for WebDriverManager
 - Write the Selenium code till navigating to the <http://tutorialsninja.com/demo/> page
 - Create a folder for storing the required element images
 - Start writing the code for logging into the application using Sikuli - [View here](#)
 - Execute the code and observe that you can see the mouse movement too while the script is getting executed.
 - Uploading a File using Sikuli - [View code here](#)
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