

2CSDE80 Software Testing and Quality Assurance

Lab-6 Task

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Aim: To study automated functional GUI testing using AutoIT

Tasks:

- **To study the implementation of AutoIT with Selenium.**
- **To find file upload website and write the AutoIt script for window GUI.**
- **To append AutoIt script with Selenium to test the window GUI.**

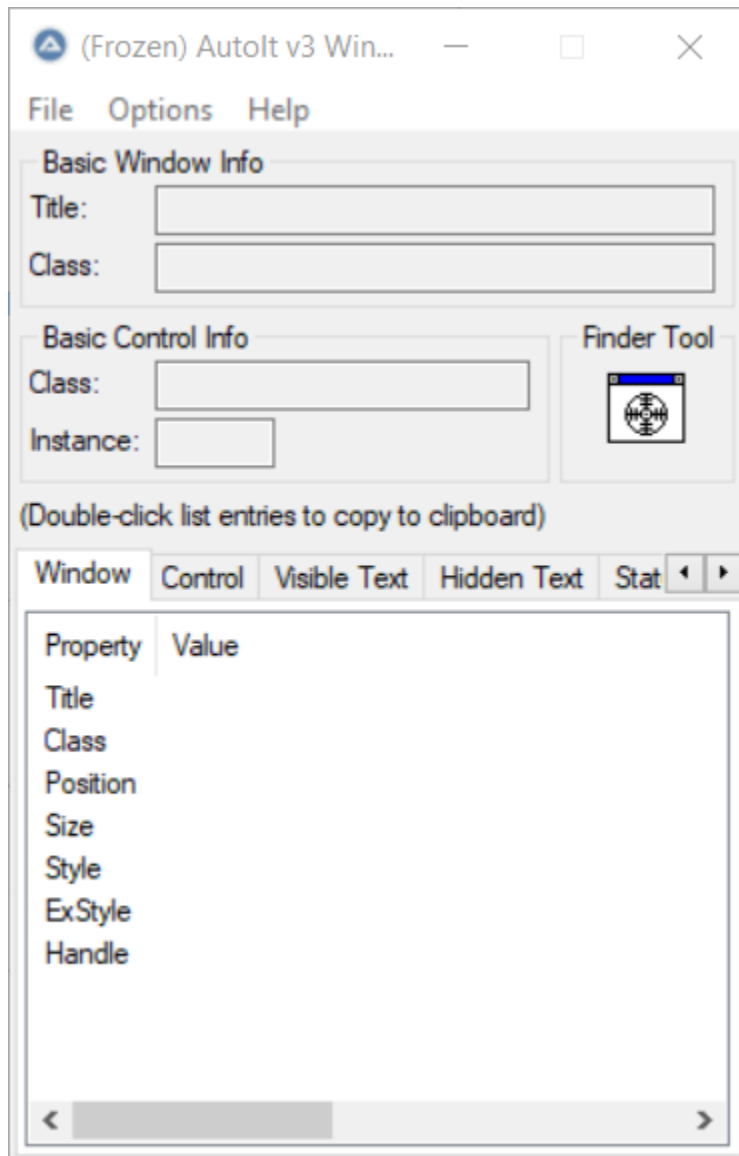
Methodology:

It is a software designed for automating windows GUI. this tool uses a combination of simulated keystrokes, mouse movements and window/control manipulation to automate tasks not possible using only selenium.

An AutoIT automation script can be converted into a compressed standalone executable. It is free and works for windows.

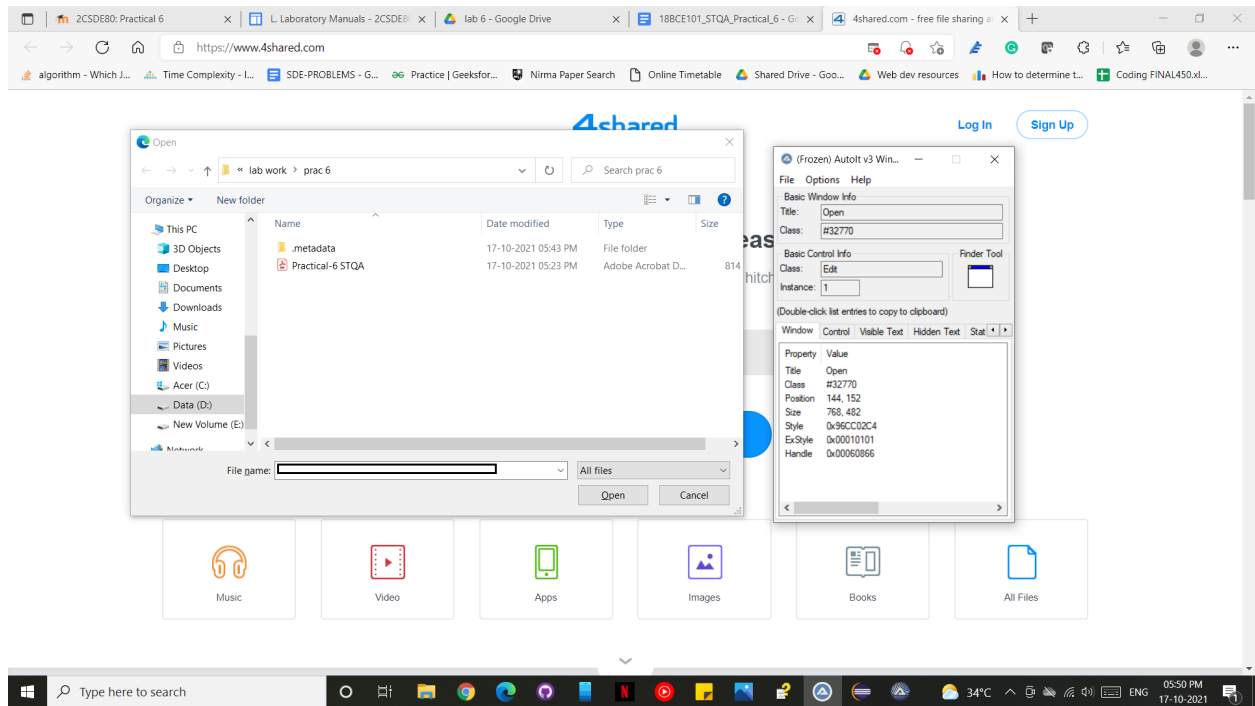


1. AutoIt info:



2. Seeing how it works:

It shows the basic window info, control, visible text, hidden text, status bar, toolbar, mouse, and summary for GUI testing purposes.



3. Writing the AutoIt script using script editor and checking the output it gives.
Herein as per the task:
The website called: 4shared.com is used.
On this website, the files have been uploaded.
Our script is coded so as to upload the file, the script is saved as .exe to call in Selenium.

D:\nirma\7th sem\Software testing and quality assurance\lab work\prac 6\fileUpload_Prac6.au3 - SciTE

```
File Edit Search View Tools Options Language Buffers Help
1 ControlFocus("Open", "", "Edit1")
2 Sleep(3000)
3 ControlSetText("Open", "", "Edit1", "D:\nirma\7th sem\Software testing and quality assurance\lab work\prac 6\Practical-6 STQA.pdf")
4 Sleep(3000)
5 ControlClick("Open", "", "Button1")
```

li=5 co=34 INS (CR+LF)

Open

lab work > prac 6

Name	Date modified	Type	Size
.metadata	17-10-2021 05:43 PM	File folder	
fileUpload_Prac6	17-10-2021 06:00 PM	AutoIt v3 Script	1
fileUpload_Prac6	17-10-2021 05:56 PM	Application	962
Practical-6 STQA	17-10-2021 05:23 PM	Adobe Acrobat D...	814

File name: D:\nirma\7th sem\Software testing and quality assurance\lab work\ All files

Open Cancel

or

Upload files

Music Video

Music Video

Type here to search

17-10-2021 06:00 PM

Name	Date modified	Type	Size
.metadata	17-10-2021 05:43 PM	File folder	
fileUpload_Prac6	17-10-2021 05:55 PM	Autolt v3 Script	1 KB
fileUpload_Prac6	17-10-2021 05:56 PM	Application	962 KB
Practical-6 STQA	17-10-2021 05:23 PM	Adobe Acrobat D...	814 KB

4. Selenium code:

```

1 package fileUpload;
2
3 import org.openqa.selenium.chrome.*;
4
5 import java.io.IOException;
6
7 import org.openqa.selenium.By;
8 import org.openqa.selenium.WebDriver;
9 import org.openqa.selenium.chrome.ChromeDriver;
10
11 public class autoITFileUpload {
12
13     public static void test() throws IOException, InterruptedException {
14
15         System.setProperty("webdriver.chrome.driver", "C:\\Users\\labdh\\Documents\\selenium\\chromedriver.exe");
16
17         //setup of the chrome driver
18         WebDriver driver = new ChromeDriver();
19
20         driver.get("https://www.4shared.com/");
21
22         driver.findElement(By.xpath("//*[@id='fstickcontent']/div[7]/div[1]/div/div[2]/form/div/label")).click();
23
24         Runtime.getRuntime().exec("D:\\nirma\\7th sem\\Software testing and quality assurance\\lab work\\prac 6\\fileUpload_Prac6.exe");
25
26         Thread.sleep(5000);
27         driver.close();
28     }
29
30     public static void main(String[] args) throws IOException, InterruptedException {
31         test();
32     }
33 }
34

```

The screenshot shows the Eclipse IDE with the 'autoITFileUpload.java' file open. The code is a Selenium test script that sets up a ChromeDriver, navigates to 'https://www.4shared.com/', clicks on a specific element, and then executes a command to run a file upload application. The console output shows the ChromeDriver starting successfully on port 46759.

Conclusion:

Selenium is an open-source freeware tool that is designed to automate web-based applications on different browsers but to handle window GUI and non HTML popups in applications. AutoIt in Selenium is required as these window-based activities are not handled by Selenium.