Automated Test

File hirachely:

\test\Automated\_test\--automated\_test\_sikuli.jar # executable automated script

|--client.py # duplicated from the main code in src for testing

|--english\_wikipedia.txt # duplicated from the main code in src for testing

|--server.py # duplicated from the main code in src for testing

|--sikulixide-2.0.5.jar # IDE of automated script

Description:

This is an extended automated testing to run the interface behaved as manual testing.

The script was created by SikuliX which is an open-source IDE designed for automation.

According to SikuliX's author (Raimund ,2017), he said "SikuliX automates any object see on the

screen of your desktop computer running Windows, Mac or some Linux/Unix."

It uses image recognition to identify on screen GUI components.

SikuliX supports Python, Ruby and JavaScript. It compounds and exports as an executable jar file.

Aim:

This automated test aimed to test the interaction between client.py and server.py. The baseline is

to ensure the main code is working. This test is run automatically and behaved like human manual.

The test environment is independent. It does not require run the script under "src" since the script have copied

into this folder for independent test and avoided modification to the main src content.

Prerequisite:

To run SikuliX, make sure the Sikulixide-2.0.5.jar is available in the same directory (i.e. ..\test\Automated\_test)

Testing environment:

This script is run under the below test environment. Since it uses image recognition, vary might occur on other test

environment which should require fine-tuning.

OS: Win 10 (21H9)

CPU: AMD 3900X

RAM: 32GB DDR5

Resolution: 2560x1440

Result:

'english\_wikipedia\_enc.txt' is generated and appeared in the directory

Exceptions:

Reference:

Raimund Hocke, 2017 , "SikuliX" Available at : <http://Sikulix.com/> (Accessed 29-Jul-2022)