# **AUTOMATION GUIDELINE FOR SUITABLE TECHNOLOGIES**

## **Prepare Automation Environment**

* SetupPython (recommend version 3.5.2 or newer)
  + Download at <https://www.python.org/downloads/>
  + Install Python and set PYTHON\_PATH in System Environment Variables.

For example, PYTHON\_PATH = C:\Program Files (x86)\Python35-32, C:\Program Files (x86)\Python35-32\Scripts

* Setup Automation Tools:

***Windows:***

1. Setup using PIP:

* Selenium (recommend version 2.53.6 or newer)

*pip install -U selenium*

* Pytest (recommend version 3.0.1 or newer)

*pip install -U pytest*

* Pytest-xdist (recommend version 1.15.0 or newer)

*pip install -U pytest-xdist*

* Pytest-html (recommend version 1.10.0 or newer)

*pip install -U pytest-html*

* Google API Client (recommend version 1.5.2 or newer)

*pip install -U google-api-python-client*

* Pillow (recommend version 3.3.0 or newer)

*pip install -U pillow*

* Numpy

*pip install -U numpy*

* pyautogui

*pip install -U pyautogui*

* caldav

*pip install -U caldav*

* sauceclient

*pip install -U* sauceclient

**Notice**: **All required tools/packages above can be installed using the “all\_in\_one\_.bat” file provided separately in the documents folder.**

***MAC:***

*Using* ***pip3****:*

* Selenium (recommend version 2.53.6 or newer)

*pip3 install -U selenium*

* Pytest (recommend version 3.0.1 or newer)

*pip3 install -U pytest*

* Pytest-xdist (recommend version 1.15.0 or newer)

*pip3 install -U pytest-xdist*

* Pytest-html (recommend version 1.10.0 or newer)

*pip3 install -U pytest-html*

* Google API Client (recommend version 1.5.2 or newer)

*pip3 install -U google-api-python-client*

* Pillow (recommend version 3.3.0 or newer)

*pip3 install -U pillow*

* Numpy

*pip3 install -U numpy*

* caldav

*pip3 install -U caldav*

* sauceclient

*pip3 install -U* sauceclient

* pyautogui

*Note: before installing* ***pyautogui*** *on MAC OSX, the Xcode application must be installed. We will use the compiler to build the* ***pyobjc*** *package.*

*pip3 install pyobjc-framework-Quartz*

*pip3 install pyobjc-core*

*pip3 install pyobjc*

*pip3 install pyautogui*

1. Manually setup tools:

* Replace“*plugin.py*“ file under *“<Python\_Directory>\Lib\site-packages\pytest\_html*” by the edited “*plugin.py*“ file in project folder “*SuitableTech\libs\pytest\_html*”
* Replace “*style.css*“ file under *“<Python\_Directory>\Lib\site-packages\pytest\_html\resources*” by the edited “*style.css*“ file in project folder “*SuitableTech\libs\pytest\_html*”
* Download and Install Eclipse IDE:

<https://eclipse.org/downloads/>

* Download and Install PyDev plugin for Ecplise IDE:

<http://www.pydev.org/manual_101_install.html>

* Authenticate Gmail account:

In order to use Google API to run test cases, the test machine needs to be authenticated by logging in <http://mail.google.com/> with prepared google API account [logigear1@suitabletech.com/Logigear123!](mailto:logigear1@suitabletech.com/Logigear123!)once per month. Otherwise, the script will fail.

**System Environment:**

* OS: Window 7 x86/x64
* Browser: Internet Explorer 11

## **Execute Test Cases**

-Open project folder and navigate to “*SuitableTech\testcases\test\_run*”

**Windows:**

* Double-click on “*run\_test\_suite.bat*” file to run full test suite
* In case you would like to run a specific test class. Edit the “*run\_specific\_test\_class.bat*” file to add your test class path and double-click on it.

C:\Users\khoi.ngo\Desktop\Untitled.png

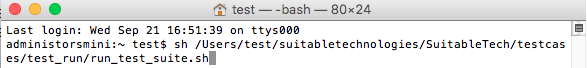
* To run test cases in parallels, please add the “-n <number\_of\_threads>” parameter at the end of the execution line in bat file.

C:\Users\khoi.ngo\Desktop\Untitled1.png

* Execution result should be found in the “*SuitableTech\testcases\test\_run\test\_result*” folder after each test run.

**MAC:**

* Open terminal, then Using command **sh** and locate to file *run\_test\_suite.sh*



* NOTED: make sure **macchromedriver** can executable.
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