Demo of Recognition Slide Verification Code API

1. Environment

Java. Python.

Test Python Version

Python 3.6

Required Python Modules (Need installed)

OpenCV / cv2

```
Computer Vision library, which include lots of general computer visi
```

selenium

```
Selenium is a web application test system, which include tset recor

We primary use Webdriver in selenium to write Python spider.

Selenium.Webdriver can be used in these browsers:
android; blackberry; chrome; common; edge; firefox; ie; opera; phan
```

2. Encapsulate Python Script

Runtime

Use Runtime to simulate execute terminal command. Two parameters are neccessary (Need to change):

```
(1) Python path (the Python which already installed required modules
"/usr/local/Cellar/python3/3.6.2/Frameworks/Python.framework/Versio

(2) Python file path. e.g.:
"/Users/yiqian/Documents/GitHub/SliderVer/JavaAPI/src/PythonFile/Mo
```

Python Main file:

```
MoveSlider.py
```

3. Java API Parameters

Input

String url

```
The URL of website which has slide verification code need to be rec

default: "https://id.163yun.com/login?referrer=https://dun.163.com/
```

String xpathBG

```
The xpath expression of background image. (Can find by Chrome develo

default: "//*[@id=\"bg\"]/div[2]/div/div/div/div/div[1]/form/div[3],
```

String xpathSlider

```
The xpath expression of slider image. (Can find by Chrome developer

default: "//*[@id=\"bg\"]/div[2]/div/div/div/div/div[1]/form/div[3],
```

Output

int getMove_distance

```
return the number of pixel slide need to move to finish recognition.
```

4. Others (Need to change)

FireFox Driver Path

To launch different browsers by selenium, we need point out browser's driver path.

```
src -> PythonFile -> utility.py
change (firefox_driver_path)
```

Background Image File Path

To analyze images we need download images to local first.

```
src -> PythonFile -> utility.py
change (bg_img_file)
```

Slider Image File Path

```
src -> PythonFile -> utility.py
change (slider_img_file)
```

5. Tips

Python Install

Easy Install Python by **Anaconda**, then install required modules:

```
conda install
```