#coding:u8

from selenium import webdriver

from selenium.webdriver.common.keys import Keys

from selenium.webdriver.common.by import By

from selenium.webdriver.support.ui import WebDriverWait

from selenium.webdriver.support import expected\_conditions as EC

from selenium.webdriver.common.action\_chains import ActionChains

import requests

import base64

import re

import time

class Demo():

def \_\_init\_\_(self):

self.coordinate=[[-105,-20],[-35,-20],[40,-20],[110,-20],[-105,50],[-35,50],[40,50],[110,50]]

def login(self):

login\_url="https://kyfw.12306.cn/otn/resources/login.html"

driver = webdriver.Chrome()

driver.set\_window\_size(1200, 900)

driver.get(login\_url)

account=driver.find\_element\_by\_class\_name("login-hd-account")

account.click()

userName=driver.find\_element\_by\_id("J-userName")

userName.send\_keys("892810578@qq.com")

password=driver.find\_element\_by\_id("J-password")

password.send\_keys("\*\*\*\*\*")

self.driver=driver

def getVerifyImage(self):

try:

img\_element =WebDriverWait(self.driver, 100).until(

EC.presence\_of\_element\_located((By.ID, "J-loginImg"))

)

except Exception as e:

print(u"网络开小差,请稍后尝试")

base64\_str=img\_element.get\_attribute("src").split(",")[-1]

imgdata=base64.b64decode(base64\_str)

with open('verify.jpg','wb') as file:

file.write(imgdata)

self.img\_element=img\_element

def getVerifyResult(self):

url="http://littlebigluo.qicp.net:47720/"

response=requests.request("POST",url,data={"type":"1"},files={'pic\_xxfile':open('verify.jpg','rb')})

result=[]

print(response.text)

for i in re.findall("<B>(.\*)</B>",response.text)[0].split(" "):

result.append(int(i)-1)

self.result=result

print(result)

def moveAndClick(self):

try:

Action=ActionChains(self.driver)

for i in self.result:

Action.move\_to\_element(self.img\_element).move\_by\_offset(self.coordinate[i][0],self.coordinate[i][1]).click()

Action.perform()

except Exception as e:

print(e.message())

def submit(self):

self.driver.find\_element\_by\_id("J-login").click()

def \_\_call\_\_(self):

self.login()

time.sleep(3)

self.getVerifyImage()

time.sleep(1)

self.getVerifyResult()

time.sleep(1)

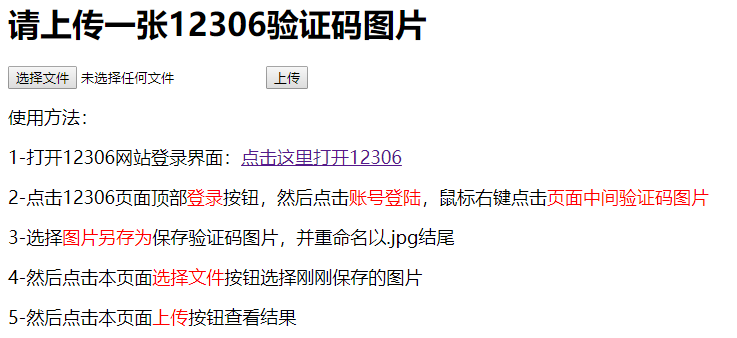
self.moveAndClick()

time.sleep(1)

self.submit()

time.sleep(10000)

Demo()()





训练好了CNN分类器，所以获取验证图像后直接requests.post图片到littlebigluo的服务器，通过CNN前传返回验证结果到浏览器