

```

import requests
import time
from lxml import etree

url = 'https://book.douban.com/top250'
data = requests.get(url).text
s = etree.HTML(data)

file = s.xpath('//*[@id="content"]/div/div[1]/div/table')

for div in file:
    title = div.xpath("./tr/td[2]/div[1]/a/@title")[0]
    score = div.xpath("./tr/td[2]/div[2]/span[2]/text()")[0]
    num =
div.xpath("./tr/td[2]/div[2]/span[3]/text()")[0].strip("(").strip()).strip(")")

```

```
scribe = div.xpath("./tr/td[2]/p[2]/span/text()")

time.sleep(2)

print("{}{}{}{}".format(title, score, num, scribe[0]))
```

python - 商品搜索 - 京东 × data:, × +


← → ↻ <https://search.jd.com/Search?keyword=python&enc=utf-8&pvid=f43b489db9e54eaa>

Chrome 正受到自动测试软件的控制。


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```
1 import time
2 from selenium import webdriver
3 from selenium.webdriver.support import expected_conditions as EC
4 from selenium.webdriver.common.by import By
5 from selenium.webdriver.support.ui import WebDriverWait
6
7 from lxml import etree
8
9 browser = webdriver.Chrome()
10 browser.get("https://www.baidu.com")
11
12 wait = WebDriverWait(browser, 50)
13
14
15 def search():
16     browser.get('https://www.jd.com/')
17     try:
18         input = wait.until(
19             EC.presence_of_all_elements_located((By.CSS_SELECTOR, "#key"))
20         ) # llist
21         submit = wait.until(
22             EC.element_to_be_clickable((By.CSS_SELECTOR, "#search > div > div.form > button"))
23         )
```

Run: 动态 ×

```
img: //img10.360buyimg.com/n1/s200x200_jfs/t23722/106/2427071620/128371/2d7b202a/5b7e6e0bNc42f7eea.jpg
title: Python从菜鸟到高手
price: 115.20
commit 14万+
+++++
img: //img12.360buyimg.com/n1/s200x200_jfs/t11800/244/1971230731/124439/a9f98805/5a0db741N8c4a2e72.jpg
```

Run: 动态 ×

```
E:\网站\实验\Scripts\python.exe E:/高凯作业/爬虫/动态.py
第 1 页:
img: //img14.360buyimg.com/n1/s200x200_jfs/t1/15399/24/5595/317531/5c3fe258E00795253/de690946fa5dc
title: Python从入门到项目实践 (全彩版)
price: 70.60
commit 9万+
+++++
img: //img14.360buyimg.com/n1/s200x200_jfs/t17953/201/1450663539/451183/3262b8de/5acb3627N8191c867
title: Python编程 从入门到实践
price: 61.40
commit 21万+
```

```
import time

from selenium import webdriver

from selenium.webdriver.support import expected_conditions as EC
from selenium.webdriver.common.by import By
from selenium.webdriver.support.ui import WebDriverWait

from lxml import etree

browser = webdriver.Chrome()
browser.get("https://www.baidu.com")

wait = WebDriverWait(browser, 50)

def search():
    browser.get('https://www.jd.com/')
    try:
        input = wait.until(
            EC.presence_of_all_elements_located((By.CSS_SELECTOR, "#key"))
        ) # llist
        submit = wait.until(
```

```

        EC.element_to_be_clickable((By.CSS_SELECTOR, "#search > div > div.form >
button"))
    )
    # input = browser.find_element_by_id('key')
    input[0].send_keys('python')
    submit.click()

    total = wait.until(
        EC.presence_of_all_elements_located(
            (By.CSS_SELECTOR, '#J_bottomPage > span.p-skip > em:nth-child(1) >
b')
        )
    )
    html = browser.page_source
    prase_html(html)
    return total[0].text
except TimeoutError:
    search()

```

```

def next_page(page_number):
    try:
        # 滑动到底部, 加载出后三十个货物信息
        browser.execute_script("window.scrollTo(0, document.body.scrollHeight);")
        time.sleep(10)
        # 翻页动作
        button = wait.until(
            EC.element_to_be_clickable((By.CSS_SELECTOR, '#J_bottomPage >
span.p-num > a.pn-next > em'))
        )
        button.click()
        wait.until(
            EC.presence_of_all_elements_located((By.CSS_SELECTOR, "#J_goodsList >
ul > li:nth-child(60)"))
        )
        # 判断翻页成功
        wait.until(
            EC.text_to_be_present_in_element((By.CSS_SELECTOR, "#J_bottomPage >
span.p-num > a.curr"), str(page_number))
        )
        html = browser.page_source
        prase_html(html)
    except TimeoutError:
        return next_page(page_number)

```

```

def prase_html(html):
    html = etree.HTML(html)
    items = html.xpath('//li[@class="gl-item"]')
    for i in range(len(items)):
        if html.xpath('//div[@class="p-img"]//img')[i].get('data-lazy-img') !=
"done":
            print("img:",
html.xpath('//div[@class="p-img"]//img')[i].get('data-lazy-img'))
            else:
                print("img:", html.xpath('//div[@class="p-img"]//img')[i].get('src'))
                print("title:",
html.xpath('//div[@class="p-name"]//em')[i].xpath('string(.)))
                print("price:", html.xpath('//div[@class="p-price"]//i')[i].text)
                print("commit", html.xpath('//div[@class="p-commit"]//a')[i].text)

print("+++++")

def main():
    print("第", 1, "页: ")
    total = int(search())
    for i in range(2, total + 1):
        time.sleep(3)
        print("第", i, "页: ")
        next_page(i)

if __name__ == "__main__":
    main()

```

```
from lxml import etree
import requests

def gk():
    url = 'https://book.douban.com/top250'
    data = requests.get(url).text
    s=etree.HTML(data)

file=s.xpath('//*[@id="content"]/div/div[1]/div/table/tr/td[2]/div[1]/a/@title')
print(file)
return file
```

追风筝的人

解忧杂货店

小王子

白夜行

围城

三体

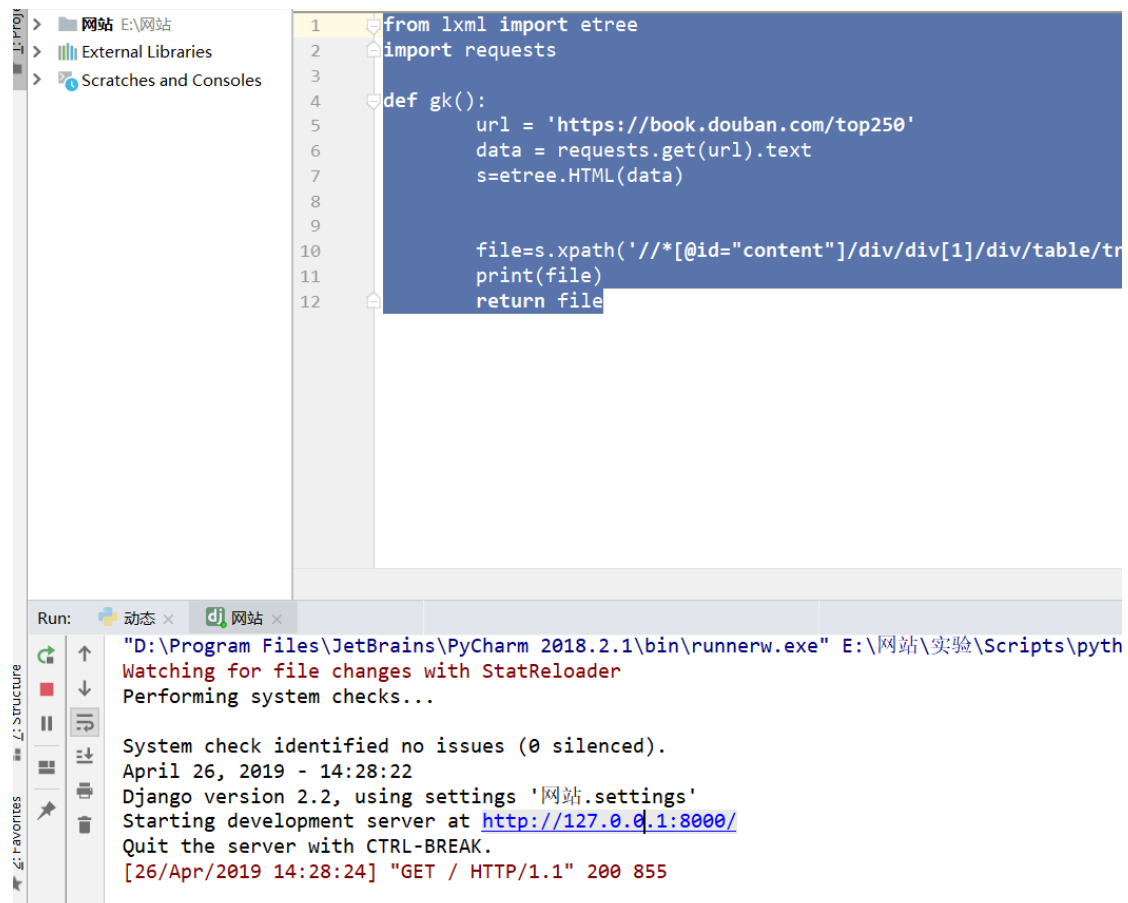
嫌疑人X的献身

活着

挪威的森林

百年孤独

红楼梦



期末作业：12306 自动登录

```
from selenium import webdriver
import time
import requests
from hashlib import md5
import re
import base64
from selenium.webdriver.common.action_chains import ActionChains

class Chaojiying_Client(object):

    def __init__(self, username, password, soft_id):
        self.username = username
        password = password.encode('utf8')
        self.password = md5(password).hexdigest()
        self.soft_id = soft_id
        self.base_params = {
            'user': self.username,
            'pass2': self.password,
```



```

        'softid': self.soft_id,
    }
    self.headers = {
        'Connection': 'Keep-Alive',
        'User-Agent': 'Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
Trident/4.0)',
    }

    def PostPic(self, im, codetype):
        params = {
            'codetype': codetype,
        }
        params.update(self.base_params)
        files = {'userfile': ('12306.jpg', im)}
        r =
requests.post('http://upload.chaojiying.net/Upload/Processing.php',
data=params, files=files, headers=self.headers)
        return r.json()

    def ReportError(self, im_id):
        params = {
            'id': im_id,
        }
        params.update(self.base_params)
        r =
requests.post('http://upload.chaojiying.net/Upload/ReportError.php',
data=params, headers=self.headers)
        return r.json()

class Login:
    def __init__(self, url, username, password):
        self.url = url
        self.username = username
        self.password = password

    def login(self):
        self.browser = webdriver.Chrome()
        self.browser.get(self.url)
        time.sleep(2)
        login_select =
self.browser.find_element_by_class_name('login-hd-account')
        login_select.click()
        user = self.browser.find_element_by_id('J-userName')
        word = self.browser.find_element_by_id('J-password')

```

```

        user.send_keys(self.username)
        word.send_keys(self.password)

    def get_pic(self):
        tag = self.browser.find_element_by_class_name('imgCode')
        temp = tag.get_attribute('src')
        b64_pic = re.sub(r'data:image/jpg;base64,', '', temp)
        pic = base64.b64decode(b64_pic)
        return pic

    def click(self, j):
        temp = j.get('pic_str')
        locations = [list(map(int, i.split(','))) for i in temp.split('|')]
        for location in locations:
            ActionChains(self.browser).move_to_element_with_offset(self.browser.find_element_by_class_name('imgCode'),
                                                                    location[0],
                                                                    location[1]).click().perform()
            time.sleep(5)
            self.browser.find_element_by_id('J-login').click()

    def get_cookies(self):
        return self.browser.get_cookies()

if __name__ == '__main__':
    a = Login('https://kyfw.12306.cn/otn/resources/login.html',
              '15558977180', 'gaokai5221')
    a.login()
    time.sleep(2)
    chaojiying = Chaojiying_Client('15858772795', 'chenxiangniu110.',
                                    '900049')
    im = a.get_pic()
    print(im)
    z = chaojiying.PostPic(im, 9004)
    print(z)
    a.click(z)
    print(a.get_cookies())

```

中国铁路12306

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https://kyfw.12306.cn/otn/resources/login.html

☆

chrome 正受到自动测试软件的控制。

国铁路12306

06 CHINA RAILWAY

欢迎登录12306

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