温州大学瓯江学院

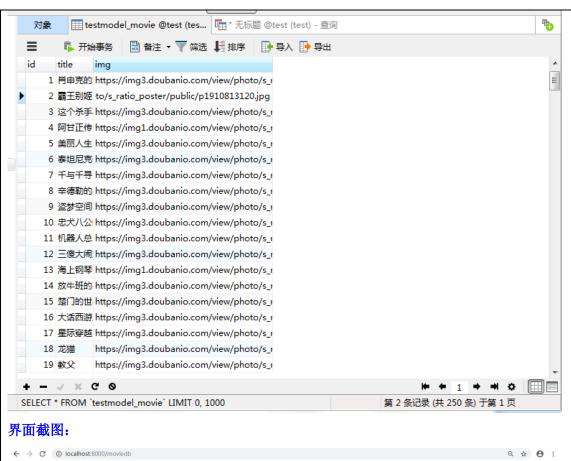
爬虫期中

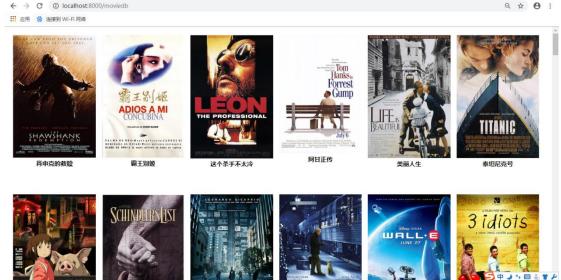
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实验	完验名称: 爬虫							
班	级:	16 计算机三班	姓	名:	童骋	学	号:	14219110112
实验	地点:	7-403	日	期:	2019.4.23			

```
一、爬取豆瓣电影:
代码:
import requests
from lxml import etree
import urllib.request
import pymysql
from bs4 import BeautifulSoup
conn=pymysql.connect(host='localhost',user='root',passwd='1234',db='test',charset="utf8")
cursor=conn.cursor()
headers={'user-agent':'Mozilla/5.0(Windows NT 6.1;Win64;x64)AppleWebKit/537.36(KHTML,like
Gecko) Chrome/52.0.2743.82 Safari/537.36', 'Host': 'movie.douban.com'}
for i in range(0,10):
      url = 'https://movie.douban.com/top250?start='+str(25*i)
       r = requests.get(url,headers=headers)
       html = etree.HTML(r.text)
       datas=html.xpath('//ol[@class="grid_view"]/li')
       a=0
       for data in datas:
              title=data.xpath('div/div[2]/div[@class="hd"]/a/span[1]/text()')
              img=data.xpath('div/div[1]/a/img/@src')
              urllib.request.urlretrieve(img[0],filename="G:top250/"+str(i*25+a+1)+".jpg")
              a+=1
              cursor.execute("insert into testmodel_movie(title,img) values(%s,%s)",(title,img))
cursor.close()
conn.commit()
conn.close()
```

数据库截图:





二、爬取天气:

代码:

from bs4 import BeautifulSoup from bs4 import UnicodeDammit import urllib.request import pymysql

conn=pymysql.connect(host='localhost',user='root',passwd='1234',db='test',charset="utf8") cursor=conn.cursor()

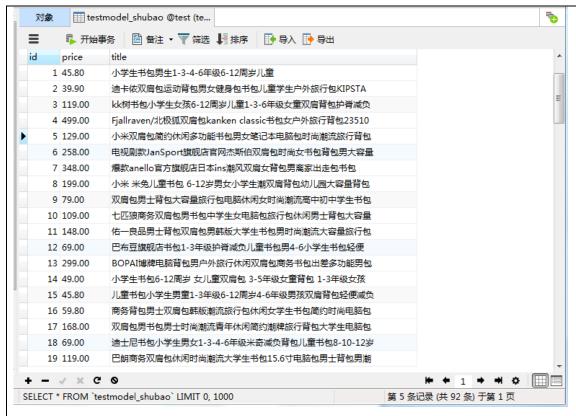
headers={'user-agent':'Mozilla/5.0(Windows;U;Windows x64;en-us;rv:1.9pre)Gecko/2008072421 MineField/3.0.2pre'}

NT

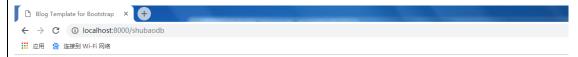
```
citycode={"北京":"101010100","上海":"101020100","广州":"101280101","深圳":"101280601"}
for city in citycode:
     url="http://www.weather.com.cn/weather/"+citycode[city]+".shtml"
         req=urllib.request.Request(url,headers=headers)
         data=urllib.request.urlopen(req)
         data=data.read()
         dammint=UnicodeDammit(data,["utf-8","gbk"])
         data=dammint.unicode_markup
         soup=BeautifulSoup(data,"lxml")
         lis=soup.select("ul[class='t clearfix'] li")
         n=0
         for li in lis:
              try:
                   date=li.select('h1')[0].text
                   print(date)
                   weather=li.select("p[class='wea']")[0].text
                   if n>0:
                        temp=li.select("p[class='tem']
                                                            span")[0].text+"/"+li.select("p[class='tem']
i")[0].text
                   else:
                        temp=li.select("p[class='tem'] i")[0].text
                   cursor.execute("insert
                                                into
                                                            testmodel_weather(city,date,weather,temp)
values(%s,%s,%s,%s)",(city,date,weather,temp))
                   n=n+1
              except Exception as err:
                   print(err)
    except Exception as err:
         print(err)
cursor.close()
conn.commit()
conn.close()
数据库截图:
```



```
r.raise_for_status()
               r.encoding=r.apparent_encoding
               return r.text
       except:
               return ""
def parsePage(ilt,html):
       try:
               plt = re.findall(r'\"view\_price\"':\"[\d\.]*\"',html)
               tlt = re.findall(r'\"raw\_title\"':\".*?\"',html)
               for i in range(len(plt)):
                      price=eval(plt[i].split(':')[1])
                       title=eval(tlt[i].split(':')[1])
                       ilt.append([price,title])
                       cursor.execute("insert
                                                                             testmodel_shubao(title,price)
                                                           into
values(%s,%s)",(title,price))
       except:
               print("")
cursor.close()
conn.commit()
conn.close()
def printGoodsList(ilt):
       tplt="{:4}\t{:8}\t{:16}"
       print(tplt.format("序号","价格","商品名称"))
       count=0
       for g in ilt:
               count = count + 1
               print(tplt.format(count,g[0],g[1]))
def main():
       goods="书包"
       depth=2
       start_url='https://s.taobao.com/search?q='+goods
       infoList=[]
       for i in range(depth):
               try:
                       url=start_url+'&s='+str(44*i)
                      html=getHTMLText(url)
                      parsePage(infoList,html)
               except:
                       continue
       printGoodsList(infoList)
main()
数据库截图:
```



界面截图:



标题:小学生书包男生1-3-4-6年级6-12周岁儿童

价格: 45.80

标题:迪卡侬双肩包运动背包男女健身包书包儿童学生户外旅行包KIPSTA

价格:39.90

标题:kk树书包小学生女孩6-12周岁儿童1-3-6年级女童双肩背包护脊减负

价格:119.00

标题: Fjallraven/北极狐双肩包kanken classic书包女户外旅行背包23510

价格: 499.00

标题:小米双肩包简约休闲多功能书包男女笔记本电脑包时尚潮流旅行背包

价格:129.00

标题:电视剧款JanSport旗舰店官网杰斯伯双肩包时尚女书包背包男大容量

价格:258.00

标题:爆款anello官方旗舰店日本ins潮风双肩女背包男离家出走包书包

四、爬取京东手机:

代码:

from selenium import webdriver

from selenium.webdriver.chrome.options import Options

import urllib.request

import threading

import pymysql

import os

import datetime

```
from selenium.webdriver.common.keys import Keys
import time
class MySpider:
    headers= {
         "User-Agent":
                          "Mozilla/5.0
                                          (Windows;
                                                       U;
                                                             Windows
                                                                       NT
                                                                                6.0
                                                                                              en-US;
                                                                                      x64;
rv:1.9pre)Gecko/2008072421 Minefield/3.0.2pre"
    imagePath = "download"
    def startUp(self,url,key):
         chrome_options=Options()
         chrome_options.add_argument('--headless')
         chrome_options.add_argument('--disable-gpu')
         self.driver = webdriver.Chrome(chrome_options=chrome_options)
         self.threads=[]
         self.No=0
         self.imgNo=0
         try:
self.con=pymysql.connect(host='localhost',user='root',passwd=1234,db=test,charset="utf8")
              self.cursor=self.con.cursor()
              try:
                   self.cursor.execute("drop table testmodel_phone ")
              except:
                   pass
              try:
                   sql="create
                                table
                                        testmodel_phone(mNo
                                                                 varchar(32)
                                                                                          key,mMark
                                                                               primary
varchar(256),mPrice varchar(32),mNote varchar(1024),mFile varchar(256))"
                   self.cursor.execute(sql)
              except:
                   pass
         except Exception as err:
              print(err)
         try:
              if not os.path.exists(MySpider.imagePath):
                   os.mkdir(MySpider.imagePath)
              images=os.listdir(MySpider.imagePath)
              for img in images:
                   s=os.path.join(MySpider.imagePath,img)
                   os.remove(s)
         except Exception as err:
              print(err)
         self.driver.get(url)
         keyInput=self.driver.find_element_by_id("key")
```

```
keyInput.send_keys(key)
     keyInput.send_keys(Keys.ENTER)
def closeUp(self):
     try:
         self.con.commit()
         self.con.close()
         self.driver.close()
     except Exception as err:
         print(err)
def showDB(self):
     try:
         con=pymysql.connect(host='localhost',user='root',passwd='1234',db=test,charset="utf8")
         cursor=con.cursor()
         print("%-8s %-16s %-8s %-16s %s" % ("No","Mark","Price","Image","Note"))
         cursor.execute("select mNo,mMark,mPrice,mFile,mNote from phones order by mNo")
         rows=cursor.fetchall()
         for row in rows:
              print("%-8s %-16s %-8s %-16s %s" % (row[0],row[1],row[2],row[3],row[4]))
         con.close()
     except Exception as err:
         print(err)
def download(self,src1,src2,mFile):
     data=None
     if src1:
         try:
              req=urllib.request.Request(src1,headers=MySpider.headers)
              resp=urllib.request.urlopen(req,timeout=400)
              data=resp.read()
         except:
              pass
     if not data and src2:
         try:
              req=urllib.request.Request(src2,headers=MySpider.headers)
              resp=urllib.request.urlopen(req,timeout=400)
              data=resp.read()
         except:
              pass
     if data:
         fobj=open(MySpider.imagePath+"\\"+mFile,"wb")
         fobj.write(data)
         fobj.close()
         print("download",mFile)
def processSpider(self):
```

```
try:
               time.sleep(2)
              print(self.driver.current_url)
               lis=self.driver.find_elements_by_xpath("//div[@id='J_goodsList']//li[@class='gl-item']")
               for li in lis:
                   try:
src1=li.find_element_by_xpath(".//div[@class='p-img']//a//img").get_attribute("src")
                   except:
                        src1=""
                   try:
src2=li.find_element_by_xpath(".//div[@class='p-img']//a//img").get_attribute("data-lazy-img")
                   except:
                        src2=""
                   try:
                        price=li.find_element_by_xpath(".//div[@class='p-price']//i").text
                   except:
                        price="0"
                   try:
                        note=li.find_element_by_xpath(".//div[@class='p-name
p-name-type-2']//em").text
                        mark=note.split(" ")[0]
                        mark=mark.replace("爱心东东\n","")
                        mark=mark.replace(",","")
                        note=note.replace("爱心东东\n","")
                        note=note.replace(",","")
                   except:
                        note=""
                        mark=""
                   self.No=self.No+1
                   no=str(self.No)
                   while len(no)<6:
                        no="0"+no
                   print(no,mark,price)
                   if src1:
                        src1=urllib.request.urljoin(self.driver.current_url,src1)
                        p=src1.rfind(".")
                        mFile=no+src1[p:]
                   elif src2:
                        src2=urllib.request.urljoin(self.driver.current_url,src2)
                        p=src2.rfind(".")
```

```
mFile=no+src2[p:]
                   if src1 or src2:
                        T=threading.Thread(target=self.download,args=(src1,src2,mFile))
                        T.setDaemon(False)
                        T.start()
                        self.threads.append(T)
                   else:
                        mFile=""
                   self.cursor.execute("insert
                                                  into
                                                           jd_test(mNo,mMark,mPrice,mNote,mFile)
values(%s,%s,%s,%s,%s)",(no,mark,price,note,mFile))
              try:
                   self.driver.find_element_by_xpath("//span[@class='p-num']//a[@class='pn-next
disabled']")
              except:
nextPage=self.driver.find_element_by_xpath("//span[@class='p-num']//a[@class='pn-next']")
                   nextPage.click()
                   self.processSpider()
         except Exception as err:
              print(err)
    def executeSpider(self,url,key):
         starttime=datetime.datetime.now()
         print("开始...")
         self.startUp(url,key)
         self.processSpider()
         self.closeUp()
         for t in self.threads:
              t.join()
         print("爬取完成....")
         endtime=datetime.datetime.now()
         elapsed=(endtime-starttime).seconds
         print("共用",elapsed,"秒时间")
url="http://www.jd.com"
spider=MySpider()
while True:
    print("1.爬取")
    print("2.显示")
    print("3.退出")
    s=input("请选择(1,2,3):")
    if s=="1":
         spider.executeSpider(url,"手机")
    elif s=="2":
         spider.showDB()
    elif s=="3":
```

