爬虫scrapy框架练习答案

题目要求

根据已知网址爬取数据,将本网址的第一页数据使用scrapy框架爬取到本地并写入excel表格中,具体爬取数据位置见图片,红色框部分是需要爬取的数据部分。

http://www.duozhi.com/



浙江、山东、辽宁公布开学时间

浙江省校外培训机构面向中小学生的线下培训,不得早于当地中小学全部 开学后一周开展。

K12

2020/04/03 | by 余甜

温馨提示:

1.用命令来创建项目

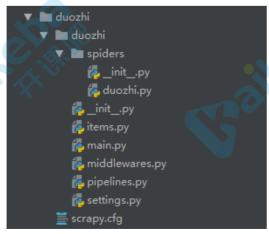
2.settings里面要修改配置

解题步骤:

1、创建项目

使用命令创建即可

scrapy



settings.py文件

- # -*- coding: utf-8 -*-
- # Scrapy settings for duozhi project

```
# For simplicity, this file contains only settings considered important or
   # commonly used. You can find more settings consulting the documentation:
         https://docs.scrapy.org/en/latest/topics/settings.html
         https://docs.scrapy.org/en/latest/topics/downloader-middleware.html
         https://docs.scrapy.org/en/latest/topics/spider-middleware.html
  BOT NAME = 'duozhi'
   SPIDER_MODULES = ['duozhi.spiders']
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   NEWSPIDER MODULE = 'duozhi.spiders'
   # Crawl responsibly by identifying yourself (and your website) on the
   user-agent
   # USER_AGENT = 'duozhi (+http://www.yourdomain.com)'
   # Obey robots.txt rules
   ROBOTSTXT OBEY = False
   # Configure maximum concurrent requests performed by Scrapy (default: 16)
# CONCURRENT_REQUESTS = 32
   # Configure a delay for requests for the same website (default: 0)
   # See https://docs.scrapy.org/en/latest/topics/settings.html#download-
   delay
   # See also autothrottle settings and docs
   # DOWNLOAD DELAY = 3
   # The download delay setting will honor only one of:
# CONCURRENT_REQUESTS_PER_DOMAIN = 16
   # CONCURRENT_REQUESTS_PER_IP = 16
   # Disable cookies (enabled by default)
   # COOKIES ENABLED = False
   # Disable Telnet Console (enabled by default)
  # TELNETCONSOLE_ENABLED = False
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   # Override the default request headers:
   # DEFAULT_REQUEST_HEADERS = {
      'Accept':
   'text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8',
       'Accept-Language': 'en',
# Enable or disable spider middlewares
   # See https://docs.scrapy.org/en/latest/topics/spider-middleware.html
   # SPIDER_MIDDLEWARES = {
       'duozhi.middlewares.DuozhiSpiderMiddleware': 543,
   # }
   # Enable or disable downloader middlewares
   # See https://docs.scrapy.org/en/latest/topics/downloader-middleware.html
   # DOWNLOADER_MIDDLEWARES = {
        'duozhi.middlewares.DuozhiDownloaderMiddleware': 543,
   # }
   # Enable or disable extensions
   # See https://docs.scrapy.org/en/latest/topics/extensions.html
   # EXTENSIONS = {
        'scrapy.extensions.telnet.TelnetConsole': None,
```

```
# Configure item pipelines
# See https://docs.scrapy.org/en/latest/topics/item-pipeline.html
ITEM PIPELINES = {
    'duozhi.pipelines.DuozhiPipeline': 300,
# Enable and configure the AutoThrottle extension (disabled by default)
# See https://docs.scrapy.org/en/latest/topics/autothrottle.html
# AUTOTHROTTLE ENABLED = True
# The initial download delay
# AUTOTHROTTLE_START_DELAY = 5
# The maximum download delay to be set in case of high latencies
# AUTOTHROTTLE_MAX_DELAY = 60
# The average number of requests Scrapy should be sending in parallel to
# each remote server
# AUTOTHROTTLE_TARGET_CONCURRENCY = 1.0
# Enable showing throttling stats for every response received:
# AUTOTHROTTLE_DEBUG = False
# Enable and configure HTTP caching (disabled by default)
# See https://docs.scrapy.org/en/latest/topics/downloader-
middleware.html#httpcache-middleware-settings
# HTTPCACHE_ENABLED = True
# HTTPCACHE_EXPIRATION_SECS = 0
# HTTPCACHE_DIR = 'httpcache'
# HTTPCACHE_IGNORE_HTTP_CODES = []
# HTTPCACHE_STORAGE = 'scrapy.extensions.httpcache.FilesystemCacheStorage'
```

duozhi.py文件

```
# -*- coding: utf-8 -*-
import scrapy
import bs4
from ..items import DuozhiItem
class DangdangBookSpider(scrapy.Spider):
    name = 'duozhi'
    allowed_domains = ['duozhi.com']
    start_urls = ['http://www.duozhi.com/']
    def parse(self, response):
        soup = bs4.BeautifulSoup(response.text, 'html.parser')
        elements = soup.find_all('div', class_="post-item")
        for element in elements:
            title = element.find('a',class_='post-title').text
            content = element.find('p',class_='post-desc').text
            item = DuozhiItem()
            item['title'] = title
            item['content'] = content
            yield item
```

items文件

```
1 # -*- coding: utf-8 -*-
```

```
# Define here the models for your scraped items
#
# See documentation in:
# https://docs.scrapy.org/en/latest/topics/items.html
import scrapy
class DuozhiItem(scrapy.Item):
# define the fields for your item here like:
# name = scrapy.Field()
title = scrapy.Field()
content = scrapy.Field()
```

piplines.py文件

```
# -*- coding: utf-8 -*-
# Define your item pipelines here
# Don't forget to add your pipeline to the ITEM_PIPELINES setting
# See: https://docs.scrapy.org/en/latest/topics/item-pipeline.html
import openpyxl
class DuozhiPipeline(object):
    def __init__(self):
        self.wb = openpyxl.Workbook()
        self.ws = self.wb.active
       self.ws.append(['标题', '内容'])
    def process_item(self, item, spider):
        line = [item['title'], item['content']]
        self.ws.append(line)
        return item
    def close_spider(self, spider):
        self.wb.save('duozhi.xlsx')
        self.wb.close()
```

main.py文件

```
from scrapy import cmdline
cmdline.execute(['scrapy', 'crawl', 'duozhi'])
```

其他文件里面不需要动