```
pip install scrapy-redis
```

爬虫部分的改造 (crawl爬虫)

```
import scrapy
from scrapy.linkextractors import LinkExtractor
from scrapy.spiders import CrawlSpider, Rule
from fang.settings import custom_settings_for_baidu
from scrapy_redis.spiders import RedisSpider,RedisCrawlSpider
class BaiduSpider(RedisCrawlSpider):
    name = "baidu"
    custom_settings = custom_settings_for_baidu
    allowed_domains = ["xiaoshuopu.com"]
    # 新增 Redis 队列 Key
    redis_key = 'baidu:start_urls' # 后续通过 lpush 命令向此键添加初始
    # start_urls = [f"https://www.xiaoshuopu.com/class_{type}/" for type in
range(1,4)]
    # rules = (Rule(LinkExtractor(allow=r"Items/"), callback="parse_item",
follow=True),)
    # 爬取规则配置
    rules = (
        Rule(
            LinkExtractor(
                allow=r'https://www.xiaoshuopu.com/xiaoshuo/\d+/\d+/',
                deny=r'https://www.xiaoshuopu.com/xiaoshuo/\d+/\d+/\d+\.html',
                # restrict_xpaths='//*[@id="at"]'
            ),
            callback='parse_books',
            follow=True
        ),
        Rule(
            LinkExtractor(
                allow=r'https://www.xiaoshuopu.com/xiaoshuo/d+/d+.html',
                restrict_xpaths='//*[@id="at"]'
            ),
            callback='parse_item',
            follow=False
        ),
    def parse_books(self, response):
        book_name = response.xpath('//h1/text()').extract()
        print('book_name:',book_name,response.url)
    def parse_item(self, response):
        title = response.xpath('//*[@id="amain"]/dl/dd[1]/h1/text()').extract()
        content = response.xpath('//*[@id="htmlContent"]//text()').extract()
        print('title:',title,response.url)
        # item = {}
        #item["domain_id"] = response.xpath('//input[@id="sid"]/@value').get()
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#item["name"] = response.xpath('//div[@id="name"]').get()
#item["description"] = response.xpath('//div[@id="description"]').get()
# return item
```

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这里可以看到有个

custom_settings=custom_settings_for_baidu这块对应着

setting位置的配置

这个时候运行启动文件,该爬虫不会爬取,而是在等待任务链接写入

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再搞个python文件像redis数据库里写入起始的任务链接,因为现在的爬虫是从redis数据库里读取完成任务的

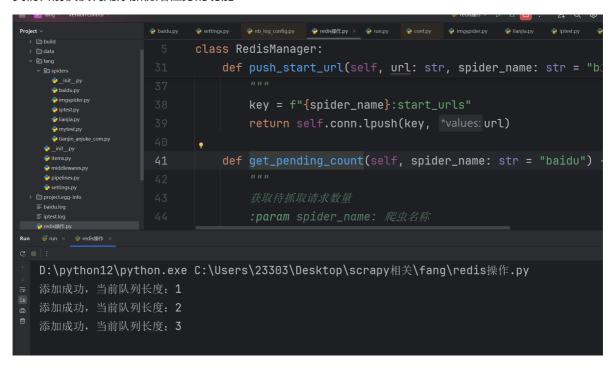
具体代码如下

```
import redis
from typing import Set, Optional
class RedisManager:
   """Redis 分布式爬虫操作封装工具类"""
   def __init__(self,
                host: str = 'localhost',
                port: int = 6379,
                db: int = 0,
                password: Optional[str] = None,
                decode_responses: bool = True):
       .....
       初始化Redis连接
       :param host: Redis服务器地址
       :param port: Redis端口
        :param db: 数据库编号
        :param password: 访问密码
       :param decode_responses: 是否自动解码响应
       self.pool = redis.ConnectionPool(
           host=host,
           port=port,
           db=db,
           password=password,
           decode_responses=decode_responses
       )
       self.conn = redis.StrictRedis(connection_pool=self.pool)
   def push_start_url(self, url: str, spider_name: str = "baidu") -> int:
```

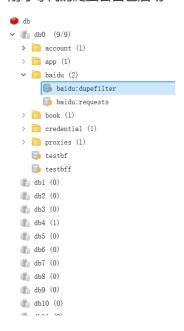
```
向起始URL队列添加新URL
       :param url: 要添加的URL
       :param spider_name: 爬虫名称(默认为baidu)
       :return: 添加后队列长度
       .....
       key = f"{spider_name}:start_urls"
       return self.conn.lpush(key, url)
   def get_pending_count(self, spider_name: str = "baidu") -> int:
       获取待抓取请求数量
       :param spider_name: 爬虫名称
       :return: 队列当前长度
       key = f"{spider_name}:requests"
       return self.conn.llen(key)
   def get_fingerprints(self, spider_name: str = "baidu") -> Set[str]:
       获取去重指纹集合
       :param spider_name: 爬虫名称
       :return: 去重指纹集合
       key = f"{spider_name}:dupefilter"
       return self.conn.smembers(key)
   def close(self):
       """关闭连接池"""
       self.pool.disconnect()
# 使用示例
if __name__ == "__main__":
   # 初始化连接
   redis_mgr = RedisManager(host='localhost',
                           port=6379,
                           db=0,
                           password='')
   try:
       start_urls = [f"https://www.xiaoshuopu.com/class_{type}/" for type in
range(1,4)
       #添加初始URL
       for url in start_urls:
           count = redis_mgr.push_start_url(url)
           print(f"添加成功,当前队列长度:{count}")
       # # 查看待抓取数量
       # pending = redis_mgr.get_pending_count()
       # print(f"待处理请求数: {pending}")
       # # 获取去重指纹
       # fingerprints = redis_mgr.get_fingerprints()
       # print(f"当前去重指纹数量: {len(fingerprints)}")
   finally:
```

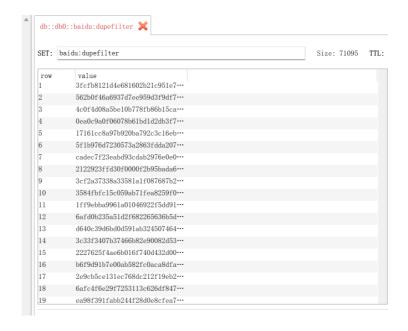
redis_mgr.close()

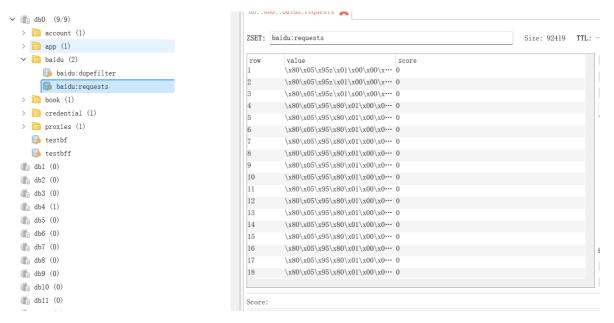
我们目前仅仅调用添加初始任务的功能



刚才等代的爬虫会自己启动







查看redis可以看到去重队列和任务队列

如果是基础模版, 那爬虫部分这么改

```
import scrapy
from fang.items import BookItem
from scrapy_redis.spiders import RedisSpider,RedisCrawlSpider
from fang.settings import custom_settings_for_mytest
class MytestSpider(RedisSpider):
    name = "mytest"
    allowed_domains = ["xiaoshuopu.com"]
    custom_settings = custom_settings_for_mytest
    redis_key = 'mytest:start_urls'
    # start_urls = ["https://www.xiaoshuopu.com/xiaoshuo/69/69434/"]
    def parse(self, response):
        chapter_url = response.xpath('//td[@class="L"]/a/@href').extract()
        for url in chapter_url:
            # 'https://www.xiaoshuopu.com/xiaoshuo/69/69434/32780156.html'
            yield
scrapy.Request(f'https://www.xiaoshuopu.com{url}',self.get_content)
    def get_content(self, response):
        item = BookItem()
        item['title'] = response.xpath('//h1/text()').extract_first()
        item['contents'] =
''.join(response.xpath('//div[@id="htmlContent"]//text()').extract())
        print(item)
        return item
```