

1. Usage

To crawl author information. Run scrapy crawl author. Eg

```
Terminal: Local x +
Microsoft Windows [版本 10.0.18362.657]
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(venv) C:\Users\dei Hestia\PycharmProjects\untitled4>cd goodbook

(venv) C:\Users\dei Hestia\PycharmProjects\untitled4\goodbook>cd goodbook

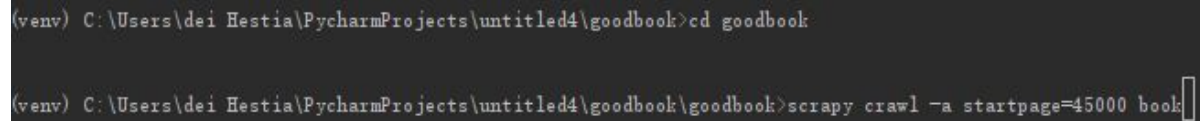
(venv) C:\Users\dei Hestia\PycharmProjects\untitled4\goodbook\goodbook>scrapy crawl author
```

And this program will automatically crawl 60 authors and store their information in database author.

2.

To crawl book information. You need to first give a index of book as startpoint.

It will search 220 books randomly after your start page.

A screenshot of a terminal window with a dark background. It shows two lines of text. The first line is a command to change the directory to 'goodbook'. The second line is a command to run 'scrapy crawl' with a startpage parameter set to 45000 and a book parameter. A cursor is visible at the end of the second command.

```
(venv) C:\Users\dei Hestia\PycharmProjects\untitled4\goodbook>cd goodbook  
(venv) C:\Users\dei Hestia\PycharmProjects\untitled4\goodbook\goodbook>scrapy crawl -a startpage=45000 book
```

Here you can replace startpage to any number less than 99999 as you want.

After it finished, it will store all the data in json file at the AWS database books.

If you want to store data at other database, you can just modify the pipeline function to do it

```
from dotenv import load_dotenv

load_dotenv()

# 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

class GoodbookPipeline(object):

    def __init__(self):
        client = pymongo.MongoClient('mongodb://xinvar2:7861141@cluster0-shard-00-00-2bae9.mongodb.net:27017,cluster0-shard-00-01-2bae9.mongodb.net')
        self.db = client.goodbooks_database
        self.collection = self.db.goodbooks_collection

    def process_item(self, item, spider):
        if isinstance(item, AuthorItem):
            postItem = dict(item)
            posts = self.db.authors
            posts.insert_one(postItem).inserted_id
        if isinstance(item, BookItem):
            postItem = dict(item)
            books = self.db.book
            books.insert_one(postItem).inserted_id
        return item
```

Here, just replace the client to your client address, and it will automatically push data into database goodbooks_test/ author and goodbooks_test/ book depend on the item type it returns

To test the function.

You can run manually,

It will generate book.il json file for books

```
{
  "url": "https://www.goodreads.com/book/show/45000_The_Island_at_the_Center_of_the_World",
  "title": "The Island at the Center of the World: The Epic Story of Dutch Manhattan and the Forgotten Colony That Shaped America",
  "id": "45000",
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  "author": "Third World Institute",
  "num_ratings": 11,
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  "title": "The World Guide 20012002: An Alternative Reference To The Countries Of Our Planet",
  "id": "45001",
  "author_url": "https://www.goodreads.com/author/show/25260_William_D_Schlaff",
  "author": "William D Schlaff",
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  "title": "A Rock and a Hard Place: How to Make Ethical Business Decisions When the Choices Are Tough",
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  "url": "https://www.goodreads.com/book/show/45007_Newsday_s_Guide_to_Long_Island_s_Natural_World",
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  "title": "White: The Pacific Theater",
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  "author": "Geoffrey M White",
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  "url": "https://www.goodreads.com/book/show/45006_The_Island_at_the_Center_of_the_World",
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  "title": "Decision Making in Reproductive End",
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  "author_url": "https://www.goodreads.com/author/show/25260_William_D_Schlaff",
  "author": "William D Schlaff",
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  "url": "https://www.goodreads.com/book/show/45012_Patterns_of_Redemption_in_Virgil_s_Georgics",
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  "author": "L L Russell",
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  "title": "World Guide 1999/2000 (GB)",
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  "title": "A Rock and a Hard Place: How to Make Ethical Business Decisions When the Choices Are Tough",
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  "author": "Russell Shorto",
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  "title": "The Only Child in Hamelin Town",
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}
```

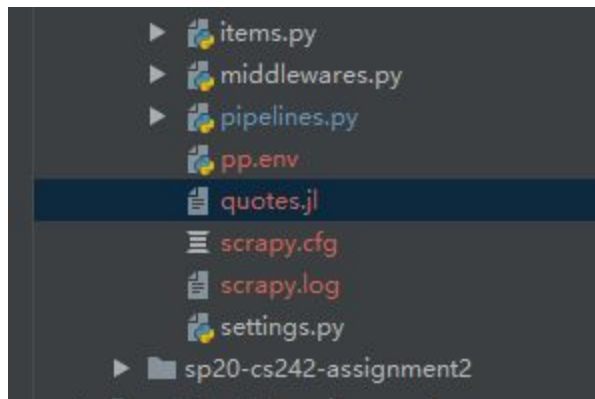
And generate quotes.il for Author information.

```

curl -https://www.godreads.com/authors/59303 Raye_Jones -name Raye_Jones -related_authors /author/similar/59303 Raye_Jones -avg_rating 4.23 -num_reviews 10516 -num_ratings 399933 -id 59303 -image_url https://www.godreads.com/authors/1244 Karl_Train -name Karl_Train -related_authors /author/similar/1244 Karl_Train -avg_rating 2.86 -num_reviews 45583 -num_ratings 2070000 -id 1244 -image_url https://www.godreads.com/authors/5810491 Robert_Gomdi -name Mahan Gomdi -related_authors /author/similar/5810491 Robert_Gomdi -avg_rating 4.06 -num_reviews 2582 -num_ratings 54860 -id 5810491 -image https://www.godreads.com/authors/7715 Robert_Fest -name Robert_Fest -related_authors /author/similar/7715 Robert_Fest -avg_rating 4.35 -num_reviews 2112 -num_ratings 116440 -id 7715 -image https://www.godreads.com/authors/1077226 J_K_Roeling -name J_K_Roeling -related_authors /author/similar/1077226 J_K_Roeling -avg_rating 4.46 -num_reviews 56574 -num_ratings 2391144 -id 1077226 -image 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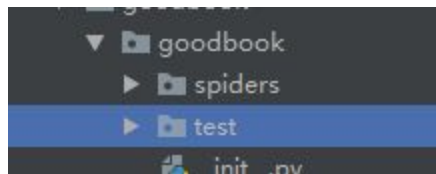
```

All the error information will be stored at `logg.txt` in the root source to view.



Like `scrapy.log`

You can also run the unittest test case to test the functionality of author spider and book spider inside the test fold.



It contains basic assert configuration to see if the programs are running smoothly

Finally, if you want to speed up the search or modify your result.

In helper.py, you can import json file or write to json files.

In the setting.py, you can set your limit, delay time, and whether or not to use pipeline

```
import json
import collections

def storejson(data, filename):
    with open(filename + '.json', 'w') as outfile:
        json.dump(data, outfile, indent=2)

def loadjson(filename):
    with open(filename, 'rb') as file:
        return json.load(file)

def jsonParse(dir_data):
    data=loadjson(dir_data)
    actj=[]
    movj=[]
    for i in data[0].keys():
        actj.append(data[0][i])
    for i in data[1].keys():
        movj.append(data[1][i])
    return actj,movj
```




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 = {

'goodbook.pipelines.GoodbookPipeline': 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