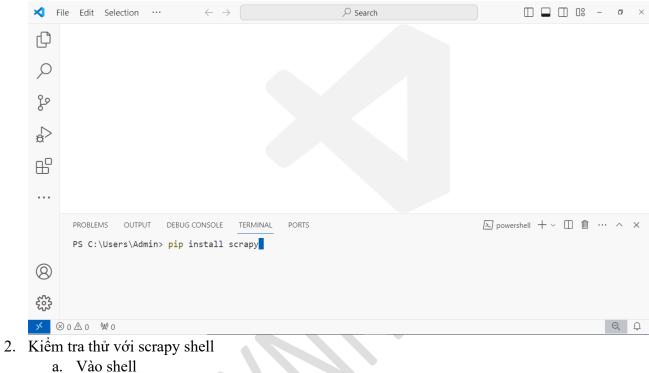
HƯỚNG DẪN SỬ DỤNG FRAMEWORK SCRAPY ĐỂ CRAWL DỮ LIỆU

1. Cài đặt Scrapy framework





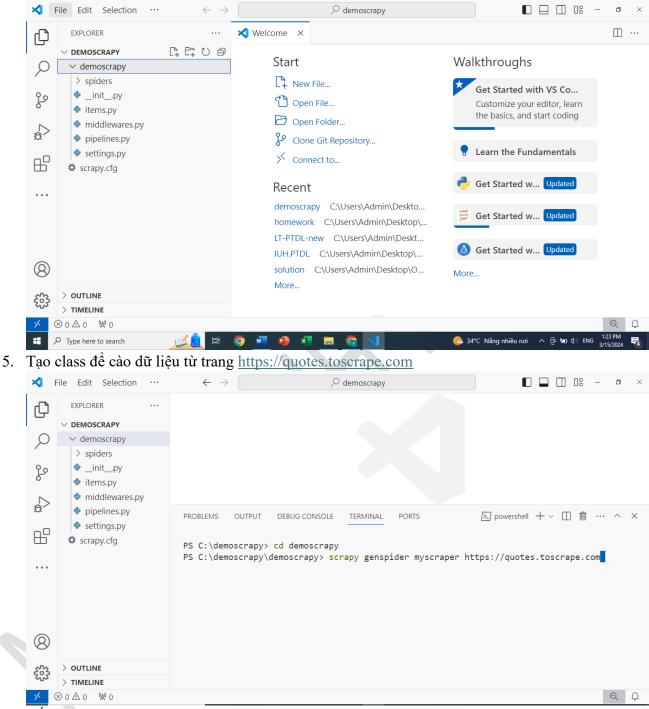
b. Nạp website muốn cào nội dung

www.ismart.io.vn



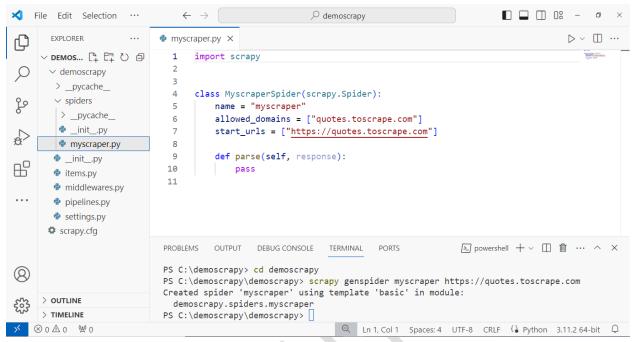
4. Xem cấu trúc project đã được tạo bằng VS Code

www.ismart.io.vn



6. Kết quả sau khi tạo xong

www.ismart.io.vn



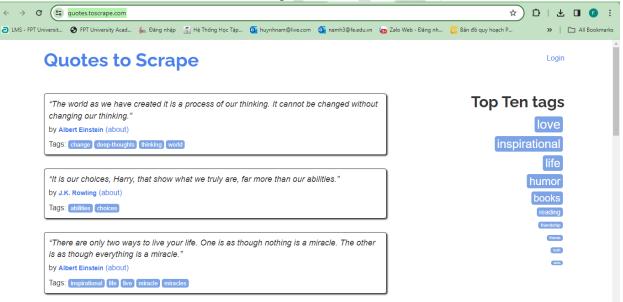
7. Chạy thử app myscraper

```
2024-03-15 13:30:18 [scrapy.utils.log] INFO: Scrapy 2.11.1 started (bot: demoscrapy)
2024-03-15 13:30:18 [scrapy.utils.log] INFO: Versions: lxml 5.1.0.0, libxml2 2.10.3, cssse
lect 1.2.0, parsel 1.9.0, w3lib 2.1.2, Twisted 24.3.0, Python 3.11.2 (tags/v3.11.2:878ead1
, Feb 7 2023, 16:38:35) [MSC v.1934 64 bit (AMD64)], pyOpenSSL 24.1.0 (OpenSSL 3.2.1 30 J
an 2024), cryptography 42.0.5, Platform Windows-10-10.0.19045-SP0
2024-03-15 13:30:18 [scrapy.addons] INFO: Enabled addons:
2024-03-15 13:30:18 [asyncio] DEBUG: Using selector: SelectSelector
2024-03-15 13:30:18 [scrapy.utils.log] DEBUG: Using reactor: twisted.internet.asyncioreact
or.AsyncioSelectorReactor
2024-03-15 13:30:18 [scrapy.utils.log] DEBUG: Using asyncio event loop: asyncio.windows ev
ents. WindowsSelectorEventLoop
2024-03-15 13:30:18 [scrapy.extensions.telnet] INFO: Telnet Password: ee5bcf9e31d47ec1
2024-03-15 13:30:18 [scrapy.middleware] INFO: Enabled extensions:
['scrapy.extensions.corestats.CoreStats',
 'scrapy.extensions.telnet.TelnetConsole',
'scrapy.extensions.logstats.LogStats']
2024-03-15 13:30:18 [scrapy.crawler] INFO: Overridden settings:
```

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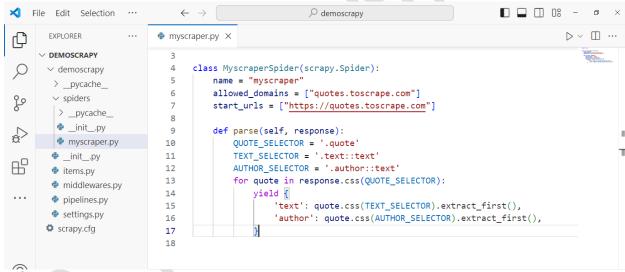
```
'elapsed_time_seconds': 1.443571,
 'finish_reason': 'finished',
 'finish_time': datetime.datetime(2024, 3, 15, 6, 30, 20, 36080, tzinfo=datetime.timezone.
utc),
 'log_count/DEBUG': 5,
 'log_count/INFO': 10,
 'response_received_count': 2,
 'robotstxt/request_count': 1,
'robotstxt/response_count': 1,
'robotstxt/response_status_count/404': 1,
 'scheduler/dequeued': 1,
 'scheduler/dequeued/memory': 1,
 'scheduler/enqueued': 1,
'scheduler/enqueued/memory': 1,
'start_time': datetime.datetime(2024, 3, 15, 6, 30, 18, 592509, tzinfo=datetime.timezone.
2024-03-15 13:30:20 [scrapy.core.engine] INFO: Spider closed (finished)
```

8. Mở thử website https://quotes.toscrape.com/ bằng trình duyệt Chrome, sau đó click chuột phải lên website bấm View Source để khám phá cấu trúc website



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9. Tiến hành sửa code dùng XPath để trích xuất dữ liệu text và author

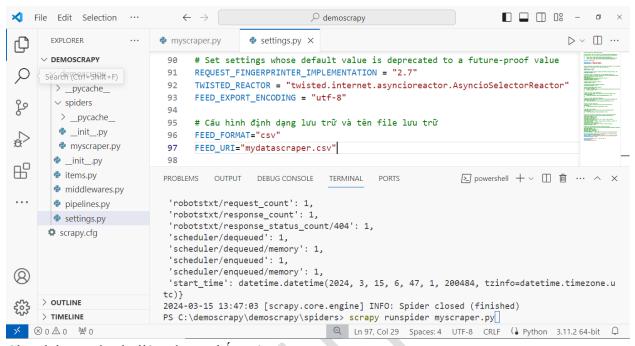


10. Tiến hành chạy app cào dữ liệu

PS C:\demoscrapy\demoscrapy\spiders> scrapy runspider myscraper.py

11. Tiến hành cấu hình định dạng lưu trữ dữ liệu là csv và tên file lưu trữ trong settings.py

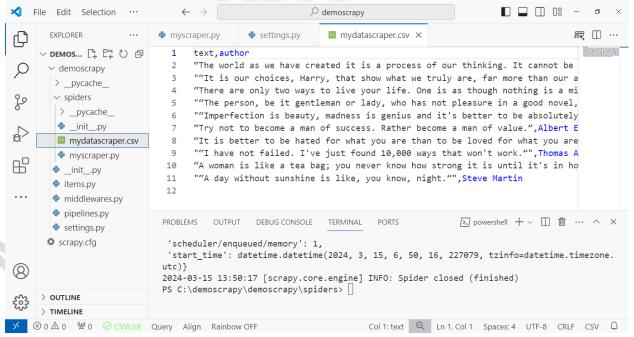
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12. Chạy lại app cào dữ liệu và xem kết quả

PS C:\demoscrapy\demoscrapy\spiders> scrapy runspider myscraper.py

Kết quả cào dữ liệu



THAM KHẢO

- 1. https://www.digitalocean.com/community/tutorials/how-to-crawl-a-web-page-with-scrapy-and-python-3
- 2. https://www.datacamp.com/tutorial/making-web-crawlers-scrapy-python