

## **Test Automation**

## **Experiment 3**

Submitted by: Submitted to:

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Step 1: - Write the below commands in the terminal or paste the below commands in the terminal to create the spyder directory. It will contain some more files as shown in screenshot which is automatically being created by the scrapy.

## **Command:** - scrapy startproject spyder

```
(base) Rahuls-Air:- rahulgusain$ conda create —-name exp3
Collecting package metadata (current_repodata.json): done
Solving environment: done

==> WARNING: A newer version of conda exists. <==
    current version: 4.12.0
latest version: 23.1.0

Please update conda by running
    $ conda update —n base —c defaults conda

## Package Plan ##
    environment location: /opt/homebrew/Caskroom/miniconda/base/envs/exp3

Proceed ([y]/n)? y

Preparing transaction: done
Verifying transaction: done
Executing transaction: done
## To activate this environment, use
## $ conda activate exp3
## 5 conda deactivate
## $ conda deactivate
## $ conda deactivate
## $ conda deactivate
## $ conda deactivate
```

```
Please update conda by running
     $ conda update -n base -c defaults conda
## Package Plan ##
  environment location: /opt/homebrew/Caskroom/miniconda/base/envs/exp3
Proceed ([y]/n)? y
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
# To activate this environment, use
       $ conda activate exp3
  To deactivate an active environment, use
       $ conda deactivate
(base) Rahuls-Air:~ rahulgusain$ conda env list
# conda environments:
#
..
base
                           * /opt/homebrew/Caskroom/miniconda/base
exp1
exp3
                                /opt/homebrew/Caskroom/miniconda/base/envs/exp1
/opt/homebrew/Caskroom/miniconda/base/envs/exp3
|(base) Rahuls-Air:~ rahulgusain$ conda activate exp3
(exp3) Rahuls-Air:~ rahulgusain$ ■
```

```
requests pkgs/main/osx-arm64::requests-2.28.1-py310hca03da5_0
pkgs/main/oarch::requests-file-1.5.1-pyhd3eb1b0_0
pkgs/main/oarch::requests-file-1.5.1-pyhd3eb1b0_0
pkgs/main/oarch::service_identity
setuptools pkgs/main/oarch::service_identity-18.1.6-pyhd3eb1b0_1
pkgs/main/oarch::six-1.16.0-pyhd3eb1b0_1
pkgs/main/oarch::six-1.16.0-pyhd3eb1b0_1
pkgs/main/oarch::six-1.16.0-pyhd3eb1b0_0
pkgs/main/oarch::six-1.16.0-pyhd3eb1b0_0
tldextract pkgs/main/osx-arm64::tw=8.6.12-hb8d0fd4_0
pkgs/main/oarch::tidextract-3.2.0-pyhd3eb1b0_0
pkgs/main/oarch::tidextract-3.2.0-pyhd3eb1b0_0
pkgs/main/osx-arm64::twping_extensions-4.0-py310hca03da5_0
tzdata pkgs/main/osx-arm64::twping_extensions-4.0-py310hca03da5_0
pkgs/main/oarch::tidextract-3.2.2-ph94d1e81_0
urllib3 pkgs/main/osx-arm64::twping_extensions-4.0-py310hca03da5_0
w31ib pkgs/main/osx-arm64::twlib1a-1.26.14-py310hca03da5_0
w31ib pkgs/main/osx-arm64::vurllib3-1.26.14-py310hca03da5_0
wheel pkgs/main/oarch::wheel-0.37.1-pyhd3eb1b0_0
ykgs/main/oarch::wheel-0.37.1-pyhd3eb1b0_0
zz pkgs/main/osx-arm64::zz=0.2-ph94d1e81_0
zlib pkgs/main/osx-arm64::zz=0.2-ph94d1e81_0
zope pkgs/main/osx-arm64::zz=0.2-ph94d1e81_0
zope pkgs/main/osx-arm64::zz=0.2-ph94deb100_0
zope pkgs/main/osx-arm64::zz=0.2-ph94deb100_0
zope.interface pkgs/main/osx-arm64::zo=0.0-py310hca03da5_1
zope pkgs/main/osx-arm64::zo=0.0-py310hca03da5_1
zope pkgs/main/osx-arm64::zo=0.0-py310hca03da5_1
zope pkgs/main/osx-arm64::zo=0.0-py310hca03da5_1
zope pkgs/main/osx-arm64::zo=0.0-py310hca03da5_1
zope.interface pkgs/main/osx-arm64::zo=0.0-py310hca03da5_0
zope.interface pkgs/main/osx-arm64::zo=0.0-py310hca03da5_0
zope.interface pkgs/main/osx-arm64::zo=0.0-py310hca03da5_0
zope.interface pkgs/main/osx-arm64::zo=0.0-py310hca03da5_0
zope.interface pkgs/main/osx-arm64::zo=0.0-py310hca03da5_0
zo=0.0-py310hca03da5_0
zo=0.0-py310hca03da5
```

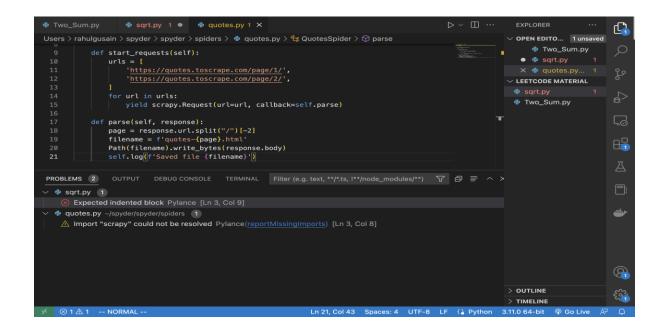
Step 2: - Now we will create our first spider. To do that we need to create a python file named quotes\_spider.py in spyder/spyder/spiders directory.

Command: - cd spyder/spiders

```
requests pkgs/main/osx-arm64::requests-2.28.1-py310hca03da5_0
requests-file pkgs/main/noarch::requests-file-1.5.1-pyhd3eb1b0_0
pkgs/main/osx-arm64::scrapy-2.6.2-py310hca03da5_0
pkgs/main/osx-arm64::scrapy-2.6.2-py310hca03da5_0
six pkgs/main/osx-arm64::setuptools-65.6.3-py310hca03da5_0
six pkgs/main/osx-arm64::setuptools-65.6.3-py310hca03da5_0
sqlite pkgs/main/osx-arm64::setuptools-65.6.3-py310hca03da5_0
tk pkgs/main/osx-arm64::slalite-3.40.1-h7a7dc30_0
tk pkgs/main/osx-arm64::the.6.12-hb8d0fd4_0
tldextract pkgs/main/osx-arm64::twisted-22.2.0-py310hla28f6b_1
typing_extensions
tydata pkgs/main/osx-arm64::twisted-22.2.0-py310hla28f6b_1
typing_extensions
pkgs/main/osx-arm64::twisted-22.2.0-py310hla28f6b_1
typing_extensions
pkgs/main/osx-arm64::twisted-22.2.0-py310hla28f6b_1
typing_extensions
pkgs/main/osx-arm64::twisted-22.1-py310hla28f6b_1
typing_extensions
pkgs/main/osx-arm64::xili-1.2.1-bp30db10_0
w3lib pkgs/main/osx-arm64::xili-1.2.1-bp30db10_0
wheel pkgs/main/osx-arm64::xili-1.2.1-bp30db63_0
pkgs/main/osx-arm64::zili-1.2.1-bp30db63_0
zope_interface
pkgs/main/osx-arm64::zope.1.0-py310hca03da5_0
pkgs/main/osx-arm64::zope.1.0-py310hca03da5_0
pkgs/main/osx-arm64::zope.1.0-py310hca03da5_0
pkgs/main/osx-arm64::zope.1.0-py310hca03da5_0
pkgs/main/osx-arm64::zope.1.0-py310hca03da5_0
zope.interface
pkgs/main/osx-arm64::zope.1.0-py310hca03da5_0
pkgs/main/osx-arm64::zope.1.0-py310hca03da5_0
zope.interface
pkgs/main/osx-arm64::zope.1.0-py310hca03da5_0
pkgs/main/osx-arm64::zope.1.0-py310hca03da5_0
zope.interface
zope.interface
zope.interface
zop
```

```
(exp3) Rahuls-Air:~ rahulgusain$ cd spyder
(exp3) Rahuls-Air:spyder rahulgusain$ cd spyder
(exp3) Rahuls-Air:spyder rahulgusain$ cd spiders
(exp3) Rahuls-Air:spiders rahulgusain$ ls
__init__.py
(exp3) Rahuls-Air:spiders rahulgusain$ ■
```

## **Command:** - touch quotes\_spider.py



```
2023-02-10 11:33:16 [scrapy.core.engine] DEBUG: Crawled (404) <GET https://quotes.toscrape.com/robots.txt> (referer: No ne)
2023-02-10 11:33:16 [scrapy.core.engine] DEBUG: Crawled (200) <GET https://quotes.toscrape.com/page/1/> (referer: None)
2023-02-10 11:33:16 [scrapy.core.engine] DEBUG: Crawled (200) <GET https://quotes.toscrape.com/page/2/> (referer: None)
2023-02-10 11:33:17 [scrapy.core.engine] DEBUG: Crawled (200) <GET https://quotes.toscrape.com/page/2/> (referer: None)
2023-02-10 11:33:17 [scrapy.core.engine] INFO: Closing spider (finished)
2023-02-10 11:33:17 [scrapy.statscollectors] INFO: Dumping Scrapy stats:
{'downloader/request_bytes': 693,
  'downloader/request_bytes': 693,
  'downloader/response_bytes': 5557,
  'downloader/response_bytes': 5557,
  'downloader/response_status_count/200': 2,
  'downloader/response_status_count/200': 2,
  'downloader/response_status_count/404': 1,
  'elapsed_time_seconds': 3.74965,
  'finish_time': datetime.datetime(2023, 2, 10, 6, 3, 17, 75874),
  'httpcompression/response_count': 3,
  'log_count/DEBUG': 6,
  'log_count/DEBUG': 6,
  'log_count/DEBUG': 6,
  'log_count/DEBUG': 6,
  'robotstxt/response_count': 1,
  'robotstxt/response_status_count/404': 1,
  'scheduler/dequeued/memory': 2,
  'scheduler/dequeued/memory': 2,
  'scheduler/dequeued/memory': 2,
  'scheduler/dequeued/memory': 2,
  'scheduler/dequeued/memory': 2,
  'scheduler/dequeud/memory': 2,
  'scheduler/dequeud/memory': 2,
  'scheduler/enqueued/memory': 2,
  'scheduler/enqueued/memory/memory/memory/me
```

Step 3: - Now we will store the scrapped data into json file and csv file. For that we need to execute the below command.

Command: - scrapy crawl quotes -O quotes.json

Command: - scrapy crawl quotes -O quotes.csv

```
(exp3) Rahuls-Air:spiders rahulgusain$ touch quotes.py
(exp3) Rahuls-Air:spiders rahulgusain$ scrapy crawl quotes
2023-82-10 11:33:10 [scrapy.utils.log] INFO: Scrapy 2.6.2 started (bot: spyder)
2023-82-10 11:33:10 [scrapy.utils.log] INFO: Versions: lxml 4.9.1.0, libxml2 2.9.14, cssselect 1.1.0, parsel 1.6.0, w31
ib 1.21.0, Twisted 22.2.0, Python 3.10.9 (main, Jan 11 2023, 09:18:18) [clang 14.0.6], pyOpenSSL 22.0.0 (OpenSSL 1.1.1
2023-82-10 11:33:10 [scrapy.crawler] INFO: Overridden settings:
('BOT_NAME': 'spyder',
'NEWSFIDER MODULE': 'spyder.spiders',
'SRDBOTSTXT_OBEY': True,
'SPIDER_MODULES': ['spyder.spiders',
'SPIDER_MODULES': ['spyder.spiders'],
'SPIDER_MODULES': ['spyder.spiders'],
'SPIDER_MODULES': ['spyder.spiders'],
'SPIDER_MODULES': ['spyder.spiders'],
'SPIDER_MODULES': ['spyder.spiders'],
'SC23-82-10 11:33:12 [scrapy.middleware] INFO: Enabled extensions:
('scrapy.extensions.corestats.corestats',
'scrapy.extensions.telnet.TelnetConsole',
'scrapy.extensions.telnet.TelnetConsole',
'scrapy.extensions.logstats.logStats']

2023-82-10 11:33:12 [scrapy.middleware] INFO: Enabled downloader middlewares:
('scrapy.downloadermiddlewares.robotstxt.RobotsTxtMiddleware',
'scrapy.downloadermiddlewares.downloadetimeout.Downloadfineouthdidleware',
'scrapy.downloadermiddlewares.defaultheaders.DefaultHeadersMiddleware',
'scrapy.downloadermiddlewares.useragent.UserAgentMiddleware',
'scrapy.downloadermiddlewares.redirect.MetaRefreshMiddleware',
'scrapy.downloadermiddlewares.redirect.MetaRefreshMiddleware',
'scrapy.downloadermiddlewares.redirect.MetaRefreshMiddleware',
'scrapy.downloadermiddlewares.redirect.MetaRefreshMiddleware',
'scrapy.downloadermiddlewares.redirect.MetaRefreshMiddleware',
'scrapy.downloadermiddlewares.redirect.MetaRefreshMiddleware',
'scrapy.downloadermiddlewares.redirect.MetaRefreshMiddleware',
'scrapy.downloadermiddlewares.redirect.MetaRefreshMiddleware',
'scrapy.downloadermiddlewares.oxips.cookiesMiddleware',
'scrapy.downloadermiddlewares.fittpcroxy.HttpProxyMiddleware',
'scrapy.downloadermiddlewares.
```

```
'scrapy.spidermiddlewares.httperror.HttpErrorMiddleware'
'scrapy.spidermiddlewares.offsite.OffsiteMiddleware',
'scrapy.spidermiddlewares.referer.RefererMiddleware',
      'scrapy.spidermiddlewares.urllength.UrlLengthMiddleware',
'scrapy.spidermiddlewares.depth.DepthMiddleware']
   2023-02-10 11:33:53 [scrapy.middleware] INFO: Enabled item pipelines:
 2023-02-10 11:33:53 [Scrapy.mioulewaie] INFO: Enabled telm pipelines.
[]
2023-02-10 11:33:53 [scrapy.cstensions.telnet] INFO: Telnet console listening on 127.0.0.1:6023
2023-02-10 11:33:55 [scrapy.core.engine] INFO: Spider opened
2023-02-10 11:33:56 [scrapy.core.engine] DEBUG: Crawled (404) <GET https://quotes.toscrape.com/robots.txt> (referer: No
ne)
2023-02-10 11:33:56 [scrapy.core.engine] DEBUG: Crawled (200) <GET https://quotes.toscrape.com/page/1/> (referer: None)
[s] Available Scrapy objects:
[s] scrapy scrapy module (contains scrapy.Request, scrapy.Selector, etc)
[s] crawler <scrapy.crawler.Crawler object at 0x10618f550>
[s] item {}
[s] request <GET https://quotes.toscrape.com/page/1/>
[s] response <200 https://quotes.toscrape.com/page/1/>
[s] settings <scrapy.settings.Settings object at 0x10618f1c0>
[s] spider <DefaultSpider 'default' at 0x108329930>
[s] liseful shortcuts.
 [s] spitcher (befaultSpider 'default' at 0x100329930>
[s] Useful shortcuts:
[s] fetch(url[, redirect=True]) Fetch URL and update local objects (by default, redirects are followed)
[s] fetch(req) Fetch a scrapy.Request and update local objects
[s] shelp() Shell help (print this help)
[s] view(response) View response in a browser
[s] shelp() Shell help (print this help)
[s] view(response) View response in a browser
>>> response.css('.text::text').getall()
['"The world as we have created it is a process of our thinking. It cannot be changed without changing our thinking."',
    "It is our choices, Harry, that show what we truly are, far more than our abilities."', '"There are only two ways to
live your life. One is as though nothing is a miracle. The other is as though everything is a miracle."', '"The person,
be it gentleman or lady, who has not pleasure in a good novel, must be intolerably stupid."', ""Imperfection is beauty
, madness is genius and it's better to be absolutely ridiculous than absolutely boring."", '"Try not to become a man of
success. Rather become a man of value."', '"It is better to be hated for what you are than to be loved for what you ar
e not."', ""I have not failed. I've just found 10,000 ways that won't work."", ""A woman is like a tea bag; you never k
now how strong it is until it's in hot water."", '"A day without sunshine is like, you know, night."']
>>>
      'item_scraped_count': 20,
'log_count/DEBUG': 24,
      'log_count/INFO': 11,
'memusage/max': 69582848,
'memusage/startup': 69582848,
      'response_received_count': 3,
'robotstxt/request_count': 1,
        robotstxt/response count': 1.
      'robotstxt/response_status_count/404': 1,
'scheduler/dequeued': 2,
       'scheduler/dequeued/memory': 2.
      'scheduler/enqueued': 2,
'scheduler/enqueued/memory': 2,
 'scart_time': datetime.datetime(2023, 2, 10, 6, 11, 57, 165106)}
2023-02-10 11:42:01 [scrapy.core.engine] INFO: Spider closed (finished)
(exp3) Rahuls-Air:spiders rahulgusain$ scrapy startproject images
New Scrapy project 'images', using template directory '/opt/homebrew/Caskroom/miniconda/base/envs/exp3/lib/python3.10/s
ite-packages/scrapy/templates/project', created in:
/Users/rahulgusain/spyder/spyder/spiders/images
You can start your first spider with:
                                                                                                                                                                                                                                                                                 quotes.pv
                                                                                                                                                                                                                                                    spiders
  __init__.py
(exp3) Rahuls-Air:spiders rahulgusain$
```

