

# Manual Test Plan

## Prerequisites:

1. IDE that support python like PyCharm, PyDev for Eclipse, Visual Studio Code (with plugins)
2. mongoDB + PyMongo

## Environment Setup and configurations:

1. Download mongoDB from link:

<https://www.mongodb.com/try/download/community>

Choose version 5.0.3, package msi, then download.

2. Download mongoDB shell from link:

<https://www.mongodb.com/try/download/shell>

Choose version 1.0.7, package msi, then download.

3. Make a connection to database and record HOST and PORT to

the .env file in the root directory. For example, use

"mongodb://localhost:27017" for the connection.

4. Navigate to the root directory, then download flask. There will be a venv folder under the root directory.

5. Run in terminal: venv/Scripts/activate

## Operations and the results:

1. Run: `py -m scraper.main`, then this menu will show

```
(venv) PS D:\cs242\cs242-project> py -m scraper.main
Hello! Welcome to the food recipes collector.

Choose one of the following options:
1 = Scrape food recipes randomly
2 = Scrape food recipes by meal type
3 = Scrape one food recipe by starting url
4 = Export existing recipes to json file
5 = Update by json file
6 = Insert by json file
q = EXIT
```

2. Enter 1 in terminal, then this will show

```
1

Choose one of the following options:
<int> = number of food recipes to scrape
b = GO BACK
```

Enter the number of food recipes, for example 5. Then scraping message will show.

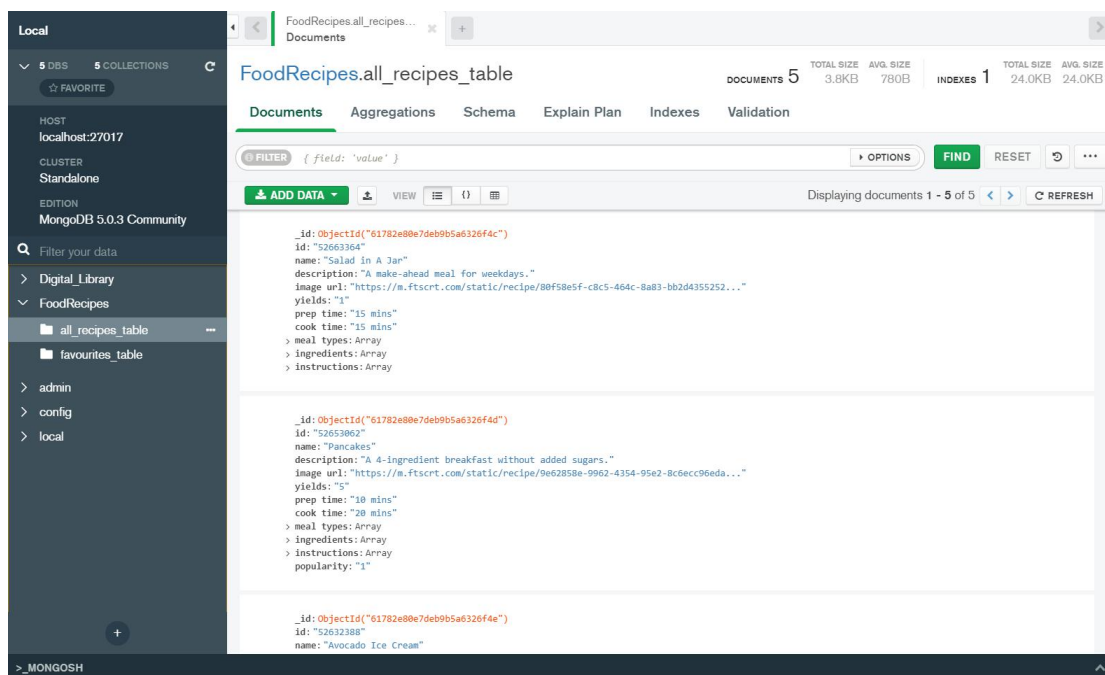
```

Choose one of the following options:
<int> = number of food recipes to scrape
b = GO BACK

5
----- Scraping food recipe 1/5 -----
Error: popularity not found
recipe with id 52663364 is inserted into all recipes table
----- Scraping food recipe 2/5 -----
recipe with id 52653062 is inserted into all recipes table
----- Scraping food recipe 3/5 -----
Error: cook time not found
Error: popularity not found
recipe with id 52632388 is inserted into all recipes table
----- Scraping food recipe 4/5 -----
Error: popularity not found
recipe with id 52624535 is inserted into all recipes table
----- Scraping food recipe 5/5 -----
Error: popularity not found
recipe with id 52623418 is inserted into all recipes table

```

The MongoDB Compass will have these documents.



3. Then we enter 1 again to scrape recipe randomly, then enter 2, we will see the documents that already exists will be updated with message.

2

```
----- Scraping food recipe 1/2 -----  
Error: popularity not found  
id entry of recipe with id 52663364 in all recipes table is updated  
name entry of recipe with id 52663364 in all recipes table is updated  
description entry of recipe with id 52663364 in all recipes table is updated  
image url entry of recipe with id 52663364 in all recipes table is updated  
yields entry of recipe with id 52663364 in all recipes table is updated  
prep time entry of recipe with id 52663364 in all recipes table is updated  
cook time entry of recipe with id 52663364 in all recipes table is updated  
meal types entry of recipe with id 52663364 in all recipes table is updated  
ingredients entry of recipe with id 52663364 in all recipes table is updated  
instructions entry of recipe with id 52663364 in all recipes table is updated  
----- Scraping food recipe 2/2 -----  
id entry of recipe with id 52653062 in all recipes table is updated  
name entry of recipe with id 52653062 in all recipes table is updated  
description entry of recipe with id 52653062 in all recipes table is updated  
image url entry of recipe with id 52653062 in all recipes table is updated  
yields entry of recipe with id 52653062 in all recipes table is updated  
prep time entry of recipe with id 52653062 in all recipes table is updated  
cook time entry of recipe with id 52653062 in all recipes table is updated  
meal types entry of recipe with id 52653062 in all recipes table is updated  
ingredients entry of recipe with id 52653062 in all recipes table is updated  
instructions entry of recipe with id 52653062 in all recipes table is updated  
popularity entry of recipe with id 52653062 in all recipes table is updated
```

4. Then we drop our table to delete all existing documents. Enter 2 in terminal to scrape food recipe by meal type. This will show.

2

Choose one of the following options:

- 1 = Scrape appetizer
- 2 = Scrape bakery and baked products
- 3 = Scrape breakfast
- 4 = Scrape dessert
- 5 = Scrape drinks and beverages
- 6 = Scrape lunch
- 7 = Scrape main dish
- 8 = Scrape salad
- 9 = Scrape sauces condiments and dressings
- 10 = Scrape side dish
- 11 = Scrape snack
- 12 = Scrape soup
- b = GO BACK

Then we enter 6 to scrape lunch. This will show.

6

Choose one of the following options:

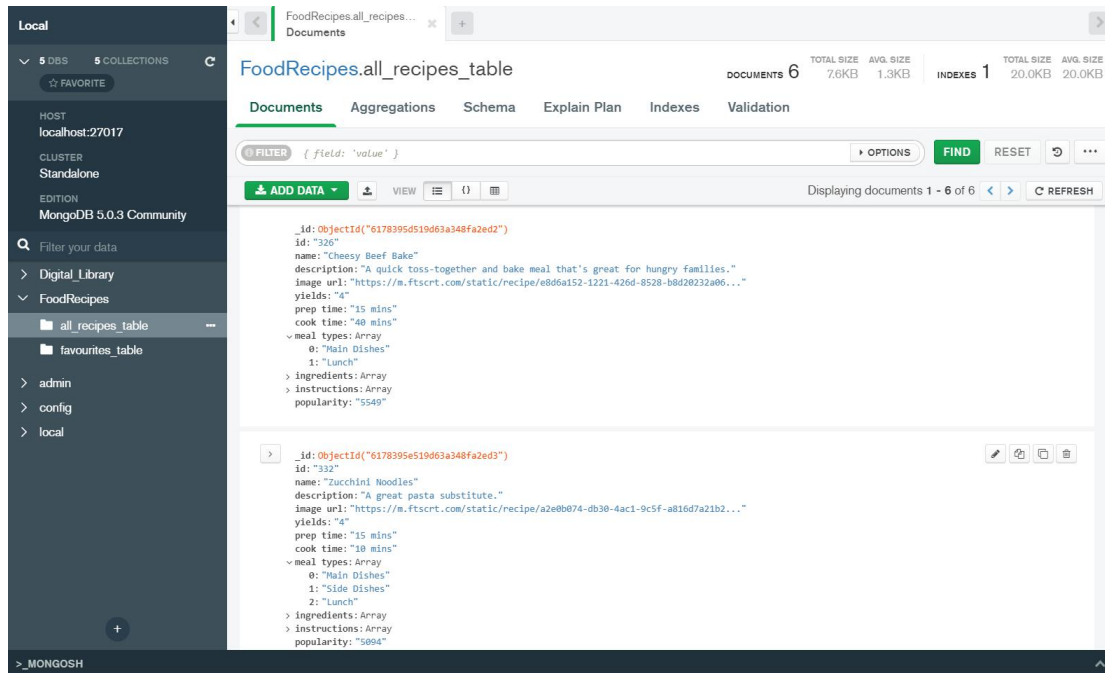
- <int> = number of food recipes to scrape
- b = GO BACK

Then we enter 6. Scraping message will show.

6

```
----- Scraping food recipe 1/6 -----  
recipe with id 326 is inserted into all recipes table  
----- Scraping food recipe 2/6 -----  
recipe with id 332 is inserted into all recipes table  
----- Scraping food recipe 3/6 -----  
recipe with id 219617 is inserted into all recipes table  
----- Scraping food recipe 4/6 -----  
recipe with id 813220 is inserted into all recipes table  
----- Scraping food recipe 5/6 -----  
recipe with id 84765 is inserted into all recipes table  
----- Scraping food recipe 6/6 -----  
recipe with id 77777 is inserted into all recipes table
```

MongoDB Compass will contain 6 recipes will lunch in meal types.



5. We first drop our table in database. Then enter 3 to Scrape one food recipe by starting url.

3

Choose one of the following options:

<str> = Starting url of a food recipe page

b = GO BACK

Then we enter: <https://www.fatsecret.com/recipes/invalid/Default.aspx>

We will see the error message, and no recipe will be scraped.

Choose one of the following options:

<str> = Starting url of a food recipe page

b = GO BACK

<https://www.fatsecret.com/recipes/invalid/Default.aspx>

Error: starting url is not a valid food recipe page



Then we enter 3 again and then enter:

<https://www.fatsecret.com/recipes/banana-muffins/Default.aspx>

We will see the success message.

Choose one of the following options:

- 1 = Scrape food recipes randomly
- 2 = Scrape food recipes by meal type
- 3 = Scrape one food recipe by starting url
- 4 = Export existing recipes to json file
- 5 = Update by json file
- 6 = Insert by json file
- q = EXIT

3

Choose one of the following options:

- <str> = Starting url of a food recipe page
- b = GO BACK

<https://www.fatsecret.com/recipes/banana-muffins/Default.aspx>

recipe with id 7925916 is inserted into all recipes table

6. We first drop our table in database. Then enter 1 to scrape some random recipes, then enter 8 to scrape 8 recipes.

8

```
----- Scraping food recipe 1/8 -----  
Error: popularity not found  
recipe with id 52663364 is inserted into all recipes table  
----- Scraping food recipe 2/8 -----  
recipe with id 52653062 is inserted into all recipes table  
----- Scraping food recipe 3/8 -----  
Error: cook time not found  
Error: popularity not found  
recipe with id 52632388 is inserted into all recipes table  
----- Scraping food recipe 4/8 -----  
Error: popularity not found  
recipe with id 52624535 is inserted into all recipes table  
----- Scraping food recipe 5/8 -----  
Error: popularity not found  
recipe with id 52623418 is inserted into all recipes table  
----- Scraping food recipe 6/8 -----  
Error: popularity not found  
recipe with id 52601013 is inserted into all recipes table  
----- Scraping food recipe 7/8 -----  
recipe with id 52569093 is inserted into all recipes table  
----- Scraping food recipe 8/8 -----  
Error: cook time not found  
Error: popularity not found  
recipe with id 52568242 is inserted into all recipes table
```

Then we enter 4 to export existing recipes to json file. We will see the success message.

```
Choose one of the following options:  
1 = Scrape food recipes randomly  
2 = Scrape food recipes by meal type  
3 = Scrape one food recipe by starting url  
4 = Export existing recipes to json file  
5 = Update by json file  
6 = Insert by json file  
q = EXIT
```

4

```
Export successful: recipes are stored in recipes.json
```

Recipes.json file will contain 8 recipes that we just scraped.



```

1  {
2    "all recipes": [
3      {
4        "id": "52663364",
5        "name": "Salad in A Jar",
6        "description": "A make-ahead meal for weekdays.",
7        "image url": "https://m.ftscrt.com/static/recipe/80f58e5f-c8c5-464c-8a83-bb2d43552529.jpg",
8        "yields": "1",
9        "prep time": "15 mins",
10       "cook time": "15 mins",
11       "meal types": [
12         "Snacks",
13         "Lunch",
14         "Salads and Salad Dressings"
15       ],
16       "ingredients": [
17         "14 g sweet peppers",
18         "19 g sugar snap peas",
19         "4 slices uncured hard salami",
20         "2 oz veggie pasta twisted elbows",
21         "1 cup shredded or chopped mixed salad greens",
22         "2 tbsps italian salad dressing",
23         "1/2 cup slices cucumber (with peel)"
24       ],
25       "instructions": [
26         "Cook the pasta according to packaging. Chop the vegetables and salami.",
27         "Put the dressing in the jar, followed by the other ingredients.",
28         "Store in the refrigerator for later consumption."
29       ]
30     },

```

7. We first drop our table in database. Then enter 3 to scrape recipe by starting url, then enter:

<https://www.fatsecret.com/recipes/chocolate-banana-almond-milk-protein-smoothie/Default.aspx>

```

Choose one of the following options:
1 = Scrape food recipes randomly
2 = Scrape food recipes by meal type
3 = Scrape one food recipe by starting url
4 = Export existing recipes to json file
5 = Update by json file
6 = Insert by json file
q = EXIT

3

Choose one of the following options:
<str> = Starting url of a food recipe page
b = GO BACK

https://www.fatsecret.com/recipes/chocolate-banana-almond-milk-protein-smoothie/Default.aspx
recipe with id 2631361 is inserted into all recipes table

```

Then create a file test.json and write following content to the file:

```
{
```

```
"name": "my cake",  
"description": "just for test"  
}
```

Then enter 5 in terminal to update by json file, then enter 1 to update all recipes table, then enter the address of our json file: test.json

Error message will show.

```
Choose one of the following options:  
1 = Scrape food recipes randomly  
2 = Scrape food recipes by meal type  
3 = Scrape one food recipe by starting url  
4 = Export existing recipes to json file  
5 = Update by json file  
6 = Insert by json file  
q = EXIT  
  
5  
  
Choose one of the following options:  
1 = Update all recipes table  
2 = Update favourite recipes table  
b = GO BACK  
  
1  
  
Choose one of the following options:  
<str> = address of json file  
b = GO BACK  
  
test.json  
Error: id is not found
```

We then edit test.json like this:

```
{  
  
  "id": "2631361",
```

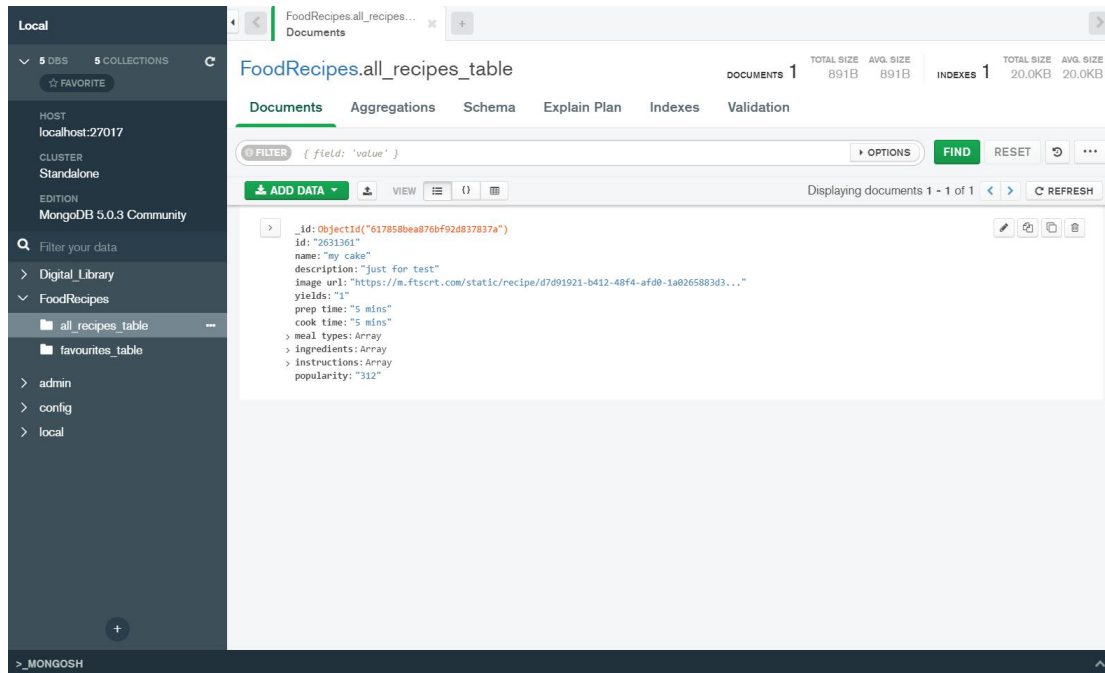
```
"name": "my cake",  
"description": "just for test"  
}
```

Then do the same steps as above to update by json file.

Success update message will show.

```
Choose one of the following options:  
1 = Scrape food recipes randomly  
2 = Scrape food recipes by meal type  
3 = Scrape one food recipe by starting url  
4 = Export existing recipes to json file  
5 = Update by json file  
6 = Insert by json file  
q = EXIT  
  
5  
  
Choose one of the following options:  
1 = Update all recipes table  
2 = Update favourite recipes table  
b = GO BACK  
  
1  
  
Choose one of the following options:  
<str> = address of json file  
b = GO BACK  
  
test.json  
name entry of recipe with id 2631361 in all recipes table is updated  
description entry of recipe with id 2631361 in all recipes table is updated
```

Check MongoDB Compass for updated attributes.



8. Edit the test.json to the following:

```
{  
  "id": "2333",  
  "name": "Juice to Insert",  
  "description": "To test insert"  
}
```

Then enter 6 in terminal to insert by json file. Then enter 1, then enter test.json.

Insert success message will show.

Choose one of the following options:

- 1 = Scrape food recipes randomly
- 2 = Scrape food recipes by meal type
- 3 = Scrape one food recipe by starting url
- 4 = Export existing recipes to json file
- 5 = Update by json file
- 6 = Insert by json file
- q = EXIT

6

Choose one of the following options:

- 1 = Insert all recipes table
- 2 = Insert favourite recipes table
- b = GO BACK

1

Choose one of the following options:

- <str> = address of json file
- b = GO BACK

test.json

recipe with id 2333 is inserted into all recipes table

Check MongoDB Compass to see the inserted recipe with id 2333.

