

# 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. Install necessary python modules.
5. Install node\_modules in food-recipes-app directory
6. First scrape some recipes if no recipes in database

## Operations and the results:

1. In the root directory, run in terminal: `py -m api.flask_app`

In the food-recipes-app directory, run in terminal: `npm start`

A web page will open with address: <http://localhost:3000/>

Tab 1:

**Food Recipes**

Recipes	Favourites	Update	Visualization
All Recipes <span>Match All</span> <span>▼</span>			
Name: <input type="text"/> Yield: <input type="text"/> Prep Time: <input type="text"/> Cook Time: <input type="text"/> Meal Types: <input type="text"/>			
<input type="button" value="Search"/>			
	Salad in A Jar		
	Pancakes		
	Avocado Ice Cream		
	Carrot Muffins		
	Cinnamon Waffles		
	Burrito Bowl		
	Cod with Vegetables and Grains Soup		
	Power Bites		
	Five Bean Soup		
	Avocado, Berries & Spinach Smoothie		

Tab 2:

Food Recipes				
Recipes	Favourites	Update	Visualization	
Favourite Recipes <span>Match All ▾</span> Name: <input type="text"/> Yield: <input type="text"/> Prep Time: <input type="text"/> Cook Time: <input type="text"/> Meal Types: <input type="text"/> <input type="button" value="Search"/>				
<div>  Carrot and Walnut Muffins           </div>				
<div>  Avocado Ice Cream           </div>				
<input type="button" value="More"/>				

Tab 3:

Food Recipes	
Recipes	Update
<h3>Update Recipe</h3>	
<div>           ID: <input type="text"/>            Name: <input type="text"/>            Image url: <input type="text"/>            Yields: <input type="text"/>            Prep Time: <input type="text"/>            Cook Time: <input type="text"/>            Description: <input type="text"/>            Meal Types: <input type="text"/>            Ingredients: <input type="text"/>            Instructions: <input type="text"/> </div>	
<div> <input type="button" value="Update"/> <input type="button" value="Append"/> <input type="button" value="Delete By ID"/> </div>	

Tab 4:



2. In the tab1, click button more, then 10 more recipes will be displayed.

**Food Recipes**

Recipes	Favourites	Update	Visualization
<div>All Recipes <span>Match All</span></div> <div>Name: <input type="text"/> Yield: <input type="text"/> Prep Time: <input type="text"/> Cook Time: <input type="text"/> Meal Types: <input type="text"/></div> <div>Search</div>			
	Salad in A Jar		
	Pancakes		
	Avocado Ice Cream		
	Carrot Muffins		
	Cinnamon Waffles		
	Burrito Bowl		
	Cod with Vegetables and Grains Soup		
	Power Bites		
	Five Bean Soup		
	Avocado, Berries & Spinach Smoothie		
	Crepes		
	Banana Chocolate Waffles		
	Banana Muffins		
	Vegetable with Crab Meat Salad		
	Vanilla Protein Cookies		
	Energy Bites		
	Apple Banana Muffins		
	Cabbage Soup		
	Taco Salad		
	Carrot and Walnut Muffins		
More			

3. In the form for search, type Lunch after Meal Types label and click search, then only list with meal type Lunch will show.

**Food Recipes**

Recipes	Favourites	Update	Visualization
All Recipes <span style="border: 1px solid black; padding: 0 5px;">Match All</span>			
Name: <input style="width: 100px;" type="text"/> Yield: <input style="width: 100px;" type="text"/> Prep Time: <input style="width: 100px;" type="text"/> Cook Time: <input style="width: 100px;" type="text"/> Meal Types: <span style="border: 1px solid black; padding: 0 20px;">Lunch</span>			
<input type="button" value="Search"/>			
<hr/>			
<hr/>			
Salad in A Jar			
Burrito Bowl			
Vegetable with Crab Meat Salad			
Taco Salad			
Broccoli Mushroom Tofu Stir Fry			
Turkey Meatballs			
Okra Curry			
Stir Fry Turkey with Rice			
Tempeh Lettuce Wraps			
Beet and Hummus Salad			
<input type="button" value="More"/>			


4. Click Okra Curry, then a new page with recipe details will open.

**Food Recipes**

Name: Okra Curry	ID: 51416868
A cholesterol-free dish for lunch or dinner.	
Yields: 5	Popularity: 1
Prep Time: 20 mins	Cook Time: 40 mins
Meal Types: Main Dishes Lunch	
Ingredients:	Instructions:
<ul style="list-style-type: none"> <li>• 1/2 tsp ground cumin</li> <li>• 10 g channa dal</li> <li>• 20 g green chilies</li> <li>• 2 tsps cumin</li> <li>• 2 1/2 tsps paprika</li> <li>• 20 g cilantro</li> <li>• 1/2 tsp turmeric (ground)</li> <li>• 2 1/2 dashes salt</li> <li>• 30 g olive oil</li> <li>• 690 g okra</li> <li>• 300 g onions</li> </ul>	<ol style="list-style-type: none"> <li>1. Heat olive oil in a pan. Add cumin seeds and channa dal. Sauté for 10 minutes then add chopped onions, chilies, salt, turmeric powder. Cook until the oil becomes light reddish brown.</li> <li>2. Add chopped okra and cook without lid for 20 minutes on medium heat.</li> <li>3. Add paprika and ground cumin. Simmer with lid for 15 minutes.</li> <li>4. Transfer to a plate and serve with rice.</li> </ol>
<input type="button" value="Add To Favourite"/>	

5. Click button Add To Favourite, then this page will be refreshed and text on button will be changed to Remove From Favourite.

### Food Recipes

	
Name: Okra Curry	ID: 51416868
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Yields: 5	Popularity: 1
Prep Time: 20 mins	Cook Time: 40 mins
Meal Types: Main Dishes Lunch	
Ingredients:	Instructions:
<ul style="list-style-type: none"><li>• 1/2 tsp ground cumin</li><li>• 10 g channa dal</li><li>• 20 g green chilies</li><li>• 2 tsps cumin</li><li>• 2 1/2 tsps paprika</li><li>• 20 g cilantro</li><li>• 1/2 tsp turmeric (ground)</li><li>• 2 1/2 dashes salt</li><li>• 30 g olive oil</li><li>• 690 g okra</li><li>• 300 g onions</li></ul>	<ol style="list-style-type: none"><li>1. Heat olive oil in a pan. Add cumin seeds and channa dal. Sauté for 10 minutes then add chopped onions, chilies, salt, turmeric powder. Cook until the oil becomes light reddish brown.</li><li>2. Add chopped okra and cook without lid for 20 minutes on medium heat.</li><li>3. Add paprika and ground cumin. Simmer with lid for 15 minutes.</li><li>4. Transfer to a plate and serve with rice.</li></ol>

Remove From  
Favourite

6. Go to the main page and click tab 2 Favourite, then click search, then we can see the newly added recipe Okra Curry.

Food Recipes

Recipes	Favourites	Update	Visualization
Favourite Recipes <div>Match All</div>			
Name: <div></div> Yield: <div></div> Prep Time: <div></div> Cook Time: <div></div> Meal Types: <div></div>			
<div>Search</div>			
<div><div></div>Carrot and Walnut Muffins</div>			
<div><div></div>Avocado Ice Cream</div>			
<div><div></div>Okra Curry</div>			
<div>More</div>			

7. Click Avocado Ice Cream, then click button Remove From Favourite.

Food Recipes



Name: Avocado Ice Cream	ID: 52632388
Low-sugar dessert on hot summer days.	
Yields: 6	Popularity: 0
Prep Time: 20 mins	Cook Time: unknown
Meal Types: Desserts Snacks	
Ingredients:	Instructions:
<ul style="list-style-type: none"><li>3 tsps cacao nibs</li><li>1/2 cup cacao powder</li><li>5 fl oz coconut milk</li><li>180 ml heavy whipping cream</li><li>2 avocados</li></ul>	<ol style="list-style-type: none"><li>Mash the avocados using blender.</li><li>Beat the cream until stiff.</li><li>Gently fold all the ingredients in a container.</li><li>Freeze for at least 2 hours before serving.</li></ol>

Remove From Favourite





## Food Recipes

Recipe not found

Return to the main page and click search in tab 2 Favourite, we will see Avocado Ice Cream is removed.

## Food Recipes

Recipes	Favourites	Update	Visualization
Favourite Recipes <span>Match All</span> <span>▼</span>			
Name: <input type="text"/> Yield: <input type="text"/> Prep Time: <input type="text"/> Cook Time: <input type="text"/> Meal Types: <input type="text"/>			
<input type="button" value="Search"/>			
<hr/>			
 Carrot and Walnut Muffins			
<hr/>			
 Okra Curry			
<hr/>			
<input type="button" value="More"/>			

8. Click tab 1 Recipes, enter > 5 in Yield and Main Dishes in Meal Types, then only recipes with yields more than 5 and Main Dishes as meal type will be displayed.

**Food Recipes**

Recipes	Favourites	Update	Visualization
All Recipes <span>Match All</span>			
Name: <input type="text"/> Yield: <input type="text" value="&gt;5"/> Prep Time: <input type="text"/> Cook Time: <input type="text"/> Meal Types: <input type="text" value="Main Dishes"/>			
<input type="button" value="Search"/>			
 Beef Brisket Stew with Daikon Radish			
 Turkey Meatballs			
 Stir Fry Sirloin Steak			
 Mushroom Rigatoni			
 Salmon Nicoise Salad			
 Brown Rice and Mushroom Risotto			
 Pasta Salad			
 Quinoa Salad			
 Brown Rice Risotto			
 Sausage and Shrimp Gumbo			
<input type="button" value="More"/>			

Click into these recipes to check the results

9. Select Match Any in the drop down, and enter Salad in Name and <10 in Prep Time, then recipes that satisfies either of the requirements will be displayed.

**Food Recipes**

Recipes	Favourites	Update	Visualization
<div>All Recipes <span>Match Any ▾</span></div> <div>Name: <input type="text" value="Salad"/> Yield: <input type="text"/> Prep Time: <input type="text" value="&lt;10"/> Cook Time: <input type="text"/> Meal Types: <input type="text"/></div> <div><input type="button" value="Search"/></div>			
<div> Salad in A Jar</div>			
<div> Vegetable with Crab Meat Salad</div>			
<div> Taco Salad</div>			
<div> Waffle</div>			
<div> Scallion Bread</div>			
<div> Tempeh Lettuce Wraps</div>			
<div> Beet and Hummus Salad</div>			
<div> Caprese Salad</div>			
<div> Greek Salad with Tuna</div>			
<div> Tuna Salad</div>			
<div><input type="button" value="More"/></div>			

Click into these recipes to check the results

10. Enter soup in Yields, then following error message will show.

**Food Recipes**

Recipes	Favourites	Update	Visualization
<div>All Recipes <span>Match Any ▾</span></div> <div>Name: <input type="text"/> Yield: <input type="text" value="soup"/> Prep Time: <input type="text"/> Cook Time: <input type="text"/> Meal Types: <input type="text"/></div> <div><input type="button" value="Search"/></div>			
<div> GET error: Value type of the field should be integer</div>			
<div><input type="button" value="More"/></div>			

11. Enter >5 in Name, then following error message will show.

**Food Recipes**

Recipes	Favourites	Update	Visualization
All Recipes <span>Match Any ▾</span>			
Name: <input type="text" value="5"/> Yield: <input type="text"/> Prep Time: <input type="text"/> Cook Time: <input type="text"/> Meal Types: <input type="text"/>			
<input type="button" value="Search"/>			
<div> GET error: Comparison operators not applicable for string</div>			
<div><input type="button" value="More"/></div>			

12. Click tab 3 Update, enter 2333 in ID and test in Name, then click Update, error message will show.

**Food Recipes**

Recipes	Favourites	Update	Visualization
<b>Update Recipe</b>			
ID: <input type="text" value="2333"/>			
Name: <input type="text" value="test"/>			
Image url: <input type="text"/>			
Yields: <input type="text"/>			
Prep Time: <input type="text"/>			
Cook Time: <input type="text"/>			
Description: <input type="text"/>			
Meal Types: <input type="text"/>			
Ingredients: <input type="text"/>			
Instructions: <input type="text"/>			
<div><input type="button" value="Update"/><input type="button" value="Append"/><input type="button" value="Delete By ID"/></div>			
PUT error: Recipe with id 2333 is not found			

13. Click Append, then success message will show.

Food Recipes

Recipes

Favourites

Update

Visualization

Update Recipe

ID: 2333

Name: test

Image url:

Yields:

Prep Time:

Cook Time:

Description:

Meal Types:

Ingredients:

Instructions:

Update

Append

Delete By ID

POST success: Recipe with id 2333 is inserted

Back to the tab 1 Recipes and search test and click it, then new recipe detail is like this.

Food Recipes

Name: test	ID: 2333
unknown	
Yields: 1	Popularity: 0
Prep Time: unknown	Cook Time: unknown
Meal Types: unknown	
Ingredients:	Instructions:
<ul style="list-style-type: none"><li>unknown</li></ul>	<ol style="list-style-type: none"><li>unknown</li></ol>

Add To Favourite

14. Back to the tab 3 Update, add more information and click Update.

Food Recipes

Recipes

Favourites

Update

Visualization

Update Recipe

ID:2333

Name:test

Image url:

Yields:10

Prep Time:11

Cook Time:12

Description:new recipe

Meal Types:Lunch

Ingredients:air magic

Instructions:Stand up and say  
It's time to witness the magic

Update

Append

Delete By ID

PUT success: Recipe with id 2333 is updated

Detail page will show like this.

Food Recipes

Name: test	ID: 2333
new recipe	
Yields: 10	Popularity: 0
Prep Time: 11 mins	Cook Time: 12 mins
Meal Types: Lunch	
Ingredients:	Instructions:
<ul style="list-style-type: none"><li>air</li><li>magic</li></ul>	<ol style="list-style-type: none"><li>Stand up</li><li>and say</li><li>It's time to witness the magic</li></ol>

Add To Favourite

15. Back to the tab 3 Update, enter only 2333 in ID and ignore other inputs, then click Delete By ID.

Food Recipes

Recipes

Favourites

Update

Visualization

Update Recipe

ID:2333

Name:

Image url:

Yields:

Prep Time:

Cook Time:

Description:

Meal Types:

Ingredients:

Instructions:

Update

Append

Delete By ID

DELETE success: Recipe with id 2333 is deleted

16. We only enter test no id in Name, then click Update, error message of put will show.

Food Recipes

Recipes

Favourites

Update

Visualization

Update Recipe

ID:

Name:

test no id

Image url:

Yields:

Prep Time:

Cook Time:

Description:

Meal Types:

Ingredients:

Instructions:

Update

Append

Delete By ID

PUT error: Recipe id is not valid



Food Recipes

Recipes

Favourites

Update

Visualization

Update Recipe

ID:

Name:

test no id

Image url:

Yields:

Prep Time:

Cook Time:

Description:

Meal Types:

Ingredients:

Instructions:

Update

Append

Delete By ID

POST input error: Invalid recipe id

[illegible]

19. Click tab 4 Visualization, choose Descending in drop down and enter 10, then click Draw.



20. Select Popularity in Field and enter 25, then click Draw.

