Assessment 2 Report – Oliver Davis, 40403492

# UML Diagram for Part01

## First Iteration

A screenshot of a computer program

Description automatically generated

## Final Iteration

A diagram of a computer program

Description automatically generated with medium confidence

# Successful Test Cases Outputs (After fixes)

## General Testing

### User inputs

1. Tests for return string method that is frequently reused through the code
   1. Valid data

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Test case 1a: Returns string from a prompt which is frequently reused through the code

Type 'cancel' to cancel and return to menu

Enter an example string:

---> hello

hello

End of test case

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* 1. Invalid Data

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Test case 1b: Returns string from a prompt which is frequently reused through the code

Type 'cancel' to cancel and return to menu

Enter an example string:

---> `

`

End of test case

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1. Tests for return int method that is frequently reused through the code
   1. Valid data

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Test case 2a. Tests for return int method that is frequently reused through the code

Type -1 to cancel and return to menu

Enter an example int:

---> 123

123

End of test case

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* 1. Invalid data

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Test case 2b: Testing a return int method that is resued frequently through code

Type -1 to cancel and return to menu

Enter an example int:

---> no

Invalid option picked! Ensure valid input!

Type -1 to cancel and return to menu

Enter an example int:

---> 123

123

End of test case

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### Displaying

1. Each list can display their items properly
2. Food type

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Test case 3f: Each list can display their items properly

All Food Types are as follows:

1. Fruit & Veg

2. Composite Food

3. Dairy

4. Cereal

5. Fat

6. Spice & Herb

7. Essential Nutrient

8. Sugar

9. Protein

End of test case

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1. Available day

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 3a: Each list can display their items properly

All Available Days are as follows:

1. Monday

2. Tuesday

3. Wednesday

4. Thursday

5. Friday

End of test case

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1. Empty

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Test case 3e: Each list can display their items properly

No items to display from selected list

End of test case

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1. Ingredients, ingredient options

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Test case 3ia: Each list can display their items properly

All Ingredients are as follows:

1. Pepper

2. Spring Onion

3. Pasta

4. Tomato Passatta

5. Apples

6. Baked Beans

7. Butter

8. Celery

9. Cheese

10. Eggs

11. Flour

12. Garlic

13. Ground Beef

14. Jam

15. Leeks

16. Lettuce

17. Milk

18. Olive Oil

19. Onion

20. Penne Pasta

21. Pepper

22. Potatoes

23. Salt

24. Stock Cubes

25. Sugar

26. Tomatoes

27. Water

28. White Bread

29. Chicken

30. Fries

31. Rice

32. Curry Sauce

End of test case

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Test case 3ib: Each list can display their items properly

All Ingredient Options are as follows:

1. Id

2. Name

3. Food Group

End of test case

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1. Recipes, recipe options

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Test case 3ra: Each list can display their items properly

All Recipes are as follows:

1. Tomato Pasta

2. Beans on Toast

3. Chicken Sandwich

4. Dirty Fries

5. Chicken Caesar Salad

6. Shepherds Pie

7. Chicken Curry

8. Beef Burger

9. Mac'n'Cheese

10. Chilli Concarne

End of test case

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Test case 3rb: Each list can display their items properly

All Recipe Options are as follows:

1. Id

2. Name

End of test case

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1. Daily menus

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Test case 3d: Each list can display their items properly

All Daily Menus are as follows:

1. Monday

2. Wednesday

3. Thursday

End of test case

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### Cancelling

1. Check cancel method works properly with string parameters
   1. Don’t cancel

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Test case 4a: Check cancel method works properly with string parameters

Input: hello

false

End of test case

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* 1. Do cancel

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Test case 4b: Check cancel method works properly with string parameters

Input: cancel

true

End of test case

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1. Check cancel method works properly with int parameters
   1. Don’t cancel

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 5a: Check cancel method works properly with int parameters

Input: 123

false

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

* 1. Do cancel

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 5b: Check cancel method works properly with int parameters

Input: -1

true

End of test case

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1. Select item method works and returns valid indexes
   1. Selects index for any list

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Test case 6a: Select item method works and returns valid indexes

All Available Days are as follows:

1. Monday

2. Tuesday

3. Wednesday

4. Thursday

5. Friday

Type -1 to cancel and return to menu

Enter desired item

---> 2

1 --> Should be one less than user input

End of test case

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* 1. Empty list

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 6b: Select item method works and returns valid indexes

No items to display from selected list

-2

End of test case

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### General Item Utility Methods

1. Access method for adding new items – Test cases end after first prompt as the method only needs to run the dedicated item add method
2. Ingredients

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Test case 7i: Access method for adding new items

Type 'cancel' to cancel and return to menu

Enter name:

--->

1. Recipes

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Test case 7r: Access method for adding new items

Type 'cancel' to cancel and return to menu

Recipe name:

--->

1. Daily menus

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Test case 7d: Access method for adding new items

All Available Days are as follows:

1. Monday

2. Tuesday

3. Wednesday

4. Thursday

5. Friday

Type -1 to cancel and return to menu

Enter the desired day of the week:

--->

1. Remove items from lists with a cascade delete
2. Ingredients

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Test case 8i: Remove items from lists with a cascade delete

Data before:

All Ingredients are as follows:

1. Pepper

2. Spring Onion

3. Pasta

4. Tomato Passatta

5. Apples

6. Baked Beans

7. Butter

8. Celery

9. Cheese

10. Eggs

11. Flour

12. Garlic

13. Ground Beef

14. Jam

15. Leeks

16. Lettuce

17. Milk

18. Olive Oil

19. Onion

20. Penne Pasta

21. Pepper

22. Potatoes

23. Salt

24. Stock Cubes

25. Sugar

26. Tomatoes

27. Water

28. White Bread

29. Chicken

30. Fries

31. Rice

32. Curry Sauce

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All Recipes are as follows:

1. Tomato Pasta

2. Beans on Toast

3. Chicken Sandwich

4. Dirty Fries

5. Chicken Caesar Salad

6. Shepherds Pie

7. Chicken Curry

8. Beef Burger

9. Mac'n'Cheese

10. Chilli Concarne

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All Daily Menus are as follows:

1. Monday

2. Wednesday

3. Thursday

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Data after:

All Ingredients are as follows:

1. Pepper

2. Pasta

3. Tomato Passatta

4. Apples

5. Baked Beans

6. Butter

7. Celery

8. Cheese

9. Eggs

10. Flour

11. Garlic

12. Ground Beef

13. Jam

14. Leeks

15. Lettuce

16. Milk

17. Olive Oil

18. Onion

19. Penne Pasta

20. Pepper

21. Potatoes

22. Salt

23. Stock Cubes

24. Sugar

25. Tomatoes

26. Water

27. White Bread

28. Chicken

29. Fries

30. Rice

31. Curry Sauce

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All Recipes are as follows:

1. Beans on Toast

2. Chicken Sandwich

3. Dirty Fries

4. Chicken Caesar Salad

5. Shepherds Pie

6. Chicken Curry

7. Beef Burger

8. Mac'n'Cheese

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All Daily Menus are as follows:

1. Wednesday

2. Thursday

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. Recipes

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Test case 8r: Remove items from lists with a cascade delete

Data before:

All Recipes are as follows:

1. Tomato Pasta

2. Beans on Toast

3. Chicken Sandwich

4. Dirty Fries

5. Chicken Caesar Salad

6. Shepherds Pie

7. Chicken Curry

8. Beef Burger

9. Mac'n'Cheese

10. Chilli Concarne

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All Daily Menus are as follows:

1. Monday

2. Wednesday

3. Thursday

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Data after:

All Recipes are as follows:

1. Tomato Pasta

2. Chicken Sandwich

3. Dirty Fries

4. Chicken Caesar Salad

5. Shepherds Pie

6. Chicken Curry

7. Beef Burger

8. Mac'n'Cheese

9. Chilli Concarne

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All Daily Menus are as follows:

1. Wednesday

2. Thursday

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

End of test case

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1. Daily menus

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Test case 8d: Remove items from lists with a cascade delete

Data before:

All Daily Menus are as follows:

1. Monday

2. Wednesday

3. Thursday

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Data after:

All Daily Menus are as follows:

1. Monday

2. Thursday

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. Removes all items from lists
2. Ingredients

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 9i: Removes all items from lists

Data before:

All Ingredients are as follows:

1. Pepper

2. Spring Onion

3. Pasta

4. Tomato Passatta

5. Apples

6. Baked Beans

7. Butter

8. Celery

9. Cheese

10. Eggs

11. Flour

12. Garlic

13. Ground Beef

14. Jam

15. Leeks

16. Lettuce

17. Milk

18. Olive Oil

19. Onion

20. Penne Pasta

21. Pepper

22. Potatoes

23. Salt

24. Stock Cubes

25. Sugar

26. Tomatoes

27. Water

28. White Bread

29. Chicken

30. Fries

31. Rice

32. Curry Sauce

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

All Recipes are as follows:

1. Tomato Pasta

2. Beans on Toast

3. Chicken Sandwich

4. Dirty Fries

5. Chicken Caesar Salad

6. Shepherds Pie

7. Chicken Curry

8. Beef Burger

9. Mac'n'Cheese

10. Chilli Concarne

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

All Daily Menus are as follows:

1. Monday

2. Wednesday

3. Thursday

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Data after:

No items to display from selected list

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No items to display from selected list

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No items to display from selected list

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

true

End of test case

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1. Recipes

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Test case 9r: Removes all items from lists

Data before:

All Recipes are as follows:

1. Tomato Pasta

2. Beans on Toast

3. Chicken Sandwich

4. Dirty Fries

5. Chicken Caesar Salad

6. Shepherds Pie

7. Chicken Curry

8. Beef Burger

9. Mac'n'Cheese

10. Chilli Concarne

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

All Daily Menus are as follows:

1. Monday

2. Wednesday

3. Thursday

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Data after:

No items to display from selected list

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No items to display from selected list

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

true

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. Daily menus

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Test case 9d: Removes all items from lists

Data before:

All Daily Menus are as follows:

1. Monday

2. Wednesday

3. Thursday

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Data after:

No items to display from selected list

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

true

End of test case

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1. Displays details of a specified item
2. Ingredients

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Test case 10ia: Displays details of a specified item

Id: 35

Name: Pasta

Food Type: Composite Food

Calories per 100g: 87

Extra Details: Long

End of test case

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Test case 10ib: Displays details of a specified item

No Ingredients available to display

End of test case

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1. Recipes

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Test case 10ra: Displays details of a specified item

Id: 3

Name: Chicken Sandwich

3 portions

Calories: 1324.0, 441.3333333333333 per portion

Ingredient 1:

Id: 60

Name: White Bread

Food Type: Composite Food

Calories per 100g: 265

Extra Details: Tasty

Amount: 400g

Ingredient 2:

Id: 61

Name: Chicken

Food Type: Protein

Calories per 100g: 146

Extra Details: Tasty

Amount: 150g

Ingredient 3:

Id: 48

Name: Lettuce

Food Type: Fruit & Veg

Calories per 100g: 15

Extra Details: Tasty

Amount: 300g

Method:

Step 1 cook food

Step 2 eat

End of test case

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Test case 10rb: Displays details of a specified item

No Recipes available to display

End of test case

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1. Daily menus

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Test case 10da: Displays details of a specified item

Day of the Week: Thursday

Recipe 1:

Id: 7

Name: Chicken Curry

4 portions

Calories: 2704.0, 676.0 per portion

Ingredient 1:

Id: 61

Name: Chicken

Food Type: Protein

Calories per 100g: 146

Extra Details: Tasty

Amount: 400g

Ingredient 2:

Id: 63

Name: Rice

Food Type: Composite Food

Calories per 100g: 400

Extra Details: Tasty

Amount: 500g

Ingredient 3:

Id: 64

Name: Curry Sauce

Food Type: Spice & Herb

Calories per 100g: 80

Extra Details: Tasty

Amount: 150g

Method:

Step 1 cook food

Step 2 eat

Recipe 2:

Id: 8

Name: Beef Burger

3 portions

Calories: 1770.5, 590.1666666666666 per portion

Ingredient 1:

Id: 45

Name: Ground Beef

Food Type: Protein

Calories per 100g: 332

Extra Details: Tasty

Amount: 400g

Ingredient 2:

Id: 60

Name: White Bread

Food Type: Composite Food

Calories per 100g: 265

Extra Details: Tasty

Amount: 150g

Ingredient 3:

Id: 48

Name: Lettuce

Food Type: Fruit & Veg

Calories per 100g: 15

Extra Details: Tasty

Amount: 300g

Method:

Step 1 cook food

Step 2 eat

Recipe 3:

Id: 9

Name: Mac'n'Cheese

3 portions

Calories: 1152.0, 384.0 per portion

Ingredient 1:

Id: 35

Name: Pasta

Food Type: Composite Food

Calories per 100g: 87

Extra Details: Long

Amount: 400g

Ingredient 2:

Id: 41

Name: Cheese

Food Type: Dairy

Calories per 100g: 402

Extra Details: Tasty

Amount: 200g

Method:

Step 1 cook food

Step 2 eat

End of test case

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Test case 10db: Displays details of a specified item

No Daily Menus available to display

End of test case

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### Updates

#### Ingredients

1. Update an ingredient’s name

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Test case 11i: Update an ingredient's name

Data before:

Id: 33

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Red Bell

Data after:

Id: 33

Name: Apple

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Red Bell

End of test case

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1. Update an ingredient's extra details

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Test case 12i: Update an ingredient's extra details

Data before:

Id: 33

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Red Bell

Data after:

Id: 33

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Yellow Bell

End of test case

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1. Update an ingredient’s food type

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Test case 13i: Update an ingredient's Food Type

Data before:

Id: 33

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Red Bell

Data after:

Id: 33

Name: Pepper

Food Type: Composite Food

Calories per 100g: 52

Extra Details: Red Bell

End of test case

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1. Update an ingredient's calories per 100g

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Test case 14i: Update an ingredient's calories per 100g

Data before:

Id: 33

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Red Bell

Data after:

Id: 33

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 72

Extra Details: Red Bell

End of test case

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#### Recipe

1. Set a recipe’s method

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Test case 15r: Set a recipe's method

Method before:

Type 'cancel' to cancel and return to menu

Enter step 1. (type 'done' if finished with method and don't include the '|' character in your steps):

---> cook

Type 'cancel' to cancel and return to menu

Enter step 2. (type 'done' if finished with method and don't include the '|' character in your steps):

---> eat

Type 'cancel' to cancel and return to menu

Enter step 3. (type 'done' if finished with method and don't include the '|' character in your steps):

---> done

Method after: cook|eat|

End of test case

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1. Update a recipe’s name

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Test case 16r: Update a recipe's name

Data before:

Id: 1

Name: Tomato Pasta

2 portions

Calories: 978.5, 489.25 per portion

Ingredient 1:

Id: 33

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Red Bell

Amount: 400g

Ingredient 2:

Id: 34

Name: Spring Onion

Food Type: Fruit & Veg

Calories per 100g: 63

Extra Details: Raw

Amount: 150g

Ingredient 3:

Id: 35

Name: Pasta

Food Type: Composite Food

Calories per 100g: 87

Extra Details: Long

Amount: 300g

Ingredient 4:

Id: 36

Name: Tomato Passatta

Food Type: Composite Food

Calories per 100g: 83

Extra Details: Tomato sauce

Amount: 500g

Method:

Step 1 Cook

Step 2 Eat

Data after:

Id: 1

Name: New name

2 portions

Calories: 978.5, 489.25 per portion

Ingredient 1:

Id: 33

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Red Bell

Amount: 400g

Ingredient 2:

Id: 34

Name: Spring Onion

Food Type: Fruit & Veg

Calories per 100g: 63

Extra Details: Raw

Amount: 150g

Ingredient 3:

Id: 35

Name: Pasta

Food Type: Composite Food

Calories per 100g: 87

Extra Details: Long

Amount: 300g

Ingredient 4:

Id: 36

Name: Tomato Passatta

Food Type: Composite Food

Calories per 100g: 83

Extra Details: Tomato sauce

Amount: 500g

Method:

Step 1 Cook

Step 2 Eat

End of test case

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1. Update a recipe’s method

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Test case 17r: Update a recipe's method

Data before:

Id: 1

Name: Tomato Pasta

2 portions

Calories: 978.5, 489.25 per portion

Ingredient 1:

Id: 33

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Red Bell

Amount: 400g

Ingredient 2:

Id: 34

Name: Spring Onion

Food Type: Fruit & Veg

Calories per 100g: 63

Extra Details: Raw

Amount: 150g

Ingredient 3:

Id: 35

Name: Pasta

Food Type: Composite Food

Calories per 100g: 87

Extra Details: Long

Amount: 300g

Ingredient 4:

Id: 36

Name: Tomato Passatta

Food Type: Composite Food

Calories per 100g: 83

Extra Details: Tomato sauce

Amount: 500g

Method:

Step 1 Cook

Step 2 Eat

Type 'cancel' to cancel and return to menu

Enter step 1. (type 'done' if finished with method and don't include the '|' character in your steps):

---> cook

Type 'cancel' to cancel and return to menu

Enter step 2. (type 'done' if finished with method and don't include the '|' character in your steps):

---> cook longer

Type 'cancel' to cancel and return to menu

Enter step 3. (type 'done' if finished with method and don't include the '|' character in your steps):

---> eat

Type 'cancel' to cancel and return to menu

Enter step 4. (type 'done' if finished with method and don't include the '|' character in your steps):

---> done

Data after:

Id: 1

Name: Tomato Pasta

2 portions

Calories: 978.5, 489.25 per portion

Ingredient 1:

Id: 33

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Red Bell

Amount: 400g

Ingredient 2:

Id: 34

Name: Spring Onion

Food Type: Fruit & Veg

Calories per 100g: 63

Extra Details: Raw

Amount: 150g

Ingredient 3:

Id: 35

Name: Pasta

Food Type: Composite Food

Calories per 100g: 87

Extra Details: Long

Amount: 300g

Ingredient 4:

Id: 36

Name: Tomato Passatta

Food Type: Composite Food

Calories per 100g: 83

Extra Details: Tomato sauce

Amount: 500g

Method:

Step 1 cook

Step 2 cook longer

Step 3 eat

End of test case

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1. Update a recipe's number of portions

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Test case 18: Update a recipe's number of portions

Data before:

Id: 1

Name: Tomato Pasta

2 portions

Calories: 978.5, 489.25 per portion

Ingredient 1:

Id: 33

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Red Bell

Amount: 400g

Ingredient 2:

Id: 34

Name: Spring Onion

Food Type: Fruit & Veg

Calories per 100g: 63

Extra Details: Raw

Amount: 150g

Ingredient 3:

Id: 35

Name: Pasta

Food Type: Composite Food

Calories per 100g: 87

Extra Details: Long

Amount: 300g

Ingredient 4:

Id: 36

Name: Tomato Passatta

Food Type: Composite Food

Calories per 100g: 83

Extra Details: Tomato sauce

Amount: 500g

Method:

Step 1 Cook

Step 2 Eat

Data after:

Id: 1

Name: Tomato Pasta

30 portions

Calories: 978.5, 32.61666666666667 per portion

Ingredient 1:

Id: 33

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Red Bell

Amount: 400g

Ingredient 2:

Id: 34

Name: Spring Onion

Food Type: Fruit & Veg

Calories per 100g: 63

Extra Details: Raw

Amount: 150g

Ingredient 3:

Id: 35

Name: Pasta

Food Type: Composite Food

Calories per 100g: 87

Extra Details: Long

Amount: 300g

Ingredient 4:

Id: 36

Name: Tomato Passatta

Food Type: Composite Food

Calories per 100g: 83

Extra Details: Tomato sauce

Amount: 500g

Method:

Step 1 Cook

Step 2 Eat

End of test case

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1. Update a recipe's ingredient – Requires user input
2. Update a recipe’s ingredient’s quantity – Requires user input
3. Add an ingredient to an existing recipe – Requires user input
4. Remove an ingredient from an existing recipe – Requires user input

#### Daily menu

1. Set available days for daily menu creation

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Test case 23a: Set the available days for daily menu creation

Data before:

[Monday, Tuesday, Wednesday, Thursday, Friday]

Data after:

[Tuesday, Friday]

End of test case

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1. Update a daily menu’s day of the week

Test case 24d: Update daily menu day of the week

Data before:

Day of the Week: Monday

Recipe 1:

Id: 1

Name: Tomato Pasta

2 portions

Calories: 978.5, 489.25 per portion

Ingredient 1:

Id: 33

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Red Bell

Amount: 400g

Ingredient 2:

Id: 34

Name: Spring Onion

Food Type: Fruit & Veg

Calories per 100g: 63

Extra Details: Raw

Amount: 150g

Ingredient 3:

Id: 35

Name: Pasta

Food Type: Composite Food

Calories per 100g: 87

Extra Details: Long

Amount: 300g

Ingredient 4:

Id: 36

Name: Tomato Passatta

Food Type: Composite Food

Calories per 100g: 83

Extra Details: Tomato sauce

Amount: 500g

Method:

Step 1 Cook

Step 2 Eat

Recipe 2:

Id: 2

Name: Beans on Toast

2 portions

Calories: 1570.0, 785.0 per portion

Ingredient 1:

Id: 38

Name: Baked Beans

Food Type: Composite Food

Calories per 100g: 155

Extra Details: Tasty

Amount: 500g

Ingredient 2:

Id: 60

Name: White Bread

Food Type: Composite Food

Calories per 100g: 265

Extra Details: Tasty

Amount: 300g

Method:

Step 1 cook food

Step 2 eat

Recipe 3:

Id: 4

Name: Dirty Fries

1 portions

Calories: 639.0, 639.0 per portion

Ingredient 1:

Id: 62

Name: Fries

Food Type: Composite Food

Calories per 100g: 105

Extra Details: Tasty

Amount: 400g

Ingredient 2:

Id: 61

Name: Chicken

Food Type: Protein

Calories per 100g: 146

Extra Details: Tasty

Amount: 150g

Method:

Step 1 cook food

Step 2 eat

Data after:

Day of the Week: Tuesday

Recipe 1:

Id: 1

Name: Tomato Pasta

2 portions

Calories: 978.5, 489.25 per portion

Ingredient 1:

Id: 33

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Red Bell

Amount: 400g

Ingredient 2:

Id: 34

Name: Spring Onion

Food Type: Fruit & Veg

Calories per 100g: 63

Extra Details: Raw

Amount: 150g

Ingredient 3:

Id: 35

Name: Pasta

Food Type: Composite Food

Calories per 100g: 87

Extra Details: Long

Amount: 300g

Ingredient 4:

Id: 36

Name: Tomato Passatta

Food Type: Composite Food

Calories per 100g: 83

Extra Details: Tomato sauce

Amount: 500g

Method:

Step 1 Cook

Step 2 Eat

Recipe 2:

Id: 2

Name: Beans on Toast

2 portions

Calories: 1570.0, 785.0 per portion

Ingredient 1:

Id: 38

Name: Baked Beans

Food Type: Composite Food

Calories per 100g: 155

Extra Details: Tasty

Amount: 500g

Ingredient 2:

Id: 60

Name: White Bread

Food Type: Composite Food

Calories per 100g: 265

Extra Details: Tasty

Amount: 300g

Method:

Step 1 cook food

Step 2 eat

Recipe 3:

Id: 4

Name: Dirty Fries

1 portions

Calories: 639.0, 639.0 per portion

Ingredient 1:

Id: 62

Name: Fries

Food Type: Composite Food

Calories per 100g: 105

Extra Details: Tasty

Amount: 400g

Ingredient 2:

Id: 61

Name: Chicken

Food Type: Protein

Calories per 100g: 146

Extra Details: Tasty

Amount: 150g

Method:

Step 1 cook food

Step 2 eat

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. Update a daily menu’s recipes arrays

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 25d: Update a daily menu's recipes array

Data before:

Day of the Week: Monday

Recipe 1:

Id: 1

Name: Tomato Pasta

2 portions

Calories: 978.5, 489.25 per portion

Ingredient 1:

Id: 33

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Red Bell

Amount: 400g

Ingredient 2:

Id: 34

Name: Spring Onion

Food Type: Fruit & Veg

Calories per 100g: 63

Extra Details: Raw

Amount: 150g

Ingredient 3:

Id: 35

Name: Pasta

Food Type: Composite Food

Calories per 100g: 87

Extra Details: Long

Amount: 300g

Ingredient 4:

Id: 36

Name: Tomato Passatta

Food Type: Composite Food

Calories per 100g: 83

Extra Details: Tomato sauce

Amount: 500g

Method:

Step 1 Cook

Step 2 Eat

Recipe 2:

Id: 2

Name: Beans on Toast

2 portions

Calories: 1570.0, 785.0 per portion

Ingredient 1:

Id: 38

Name: Baked Beans

Food Type: Composite Food

Calories per 100g: 155

Extra Details: Tasty

Amount: 500g

Ingredient 2:

Id: 60

Name: White Bread

Food Type: Composite Food

Calories per 100g: 265

Extra Details: Tasty

Amount: 300g

Method:

Step 1 cook food

Step 2 eat

Recipe 3:

Id: 4

Name: Dirty Fries

1 portions

Calories: 639.0, 639.0 per portion

Ingredient 1:

Id: 62

Name: Fries

Food Type: Composite Food

Calories per 100g: 105

Extra Details: Tasty

Amount: 400g

Ingredient 2:

Id: 61

Name: Chicken

Food Type: Protein

Calories per 100g: 146

Extra Details: Tasty

Amount: 150g

Method:

Step 1 cook food

Step 2 eat

Data after:

Day of the Week: Monday

Recipe 1:

Id: 6

Name: Shepherds Pie

7 portions

Calories: 2582.0, 368.85714285714283 per portion

Ingredient 1:

Id: 45

Name: Ground Beef

Food Type: Protein

Calories per 100g: 332

Extra Details: Tasty

Amount: 400g

Ingredient 2:

Id: 54

Name: Potatoes

Food Type: Fruit & Veg

Calories per 100g: 75

Extra Details: Tasty

Amount: 600g

Ingredient 3:

Id: 41

Name: Cheese

Food Type: Dairy

Calories per 100g: 402

Extra Details: Tasty

Amount: 200g

Method:

Step 1 cook food

Step 2 eat

Recipe 2:

Id: 10

Name: Chilli Concarne

2 portions

Calories: 1825.0, 912.5 per portion

Ingredient 1:

Id: 45

Name: Ground Beef

Food Type: Protein

Calories per 100g: 332

Extra Details: Tasty

Amount: 400g

Ingredient 2:

Id: 33

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Red Bell

Amount: 350g

Ingredient 3:

Id: 34

Name: Spring Onion

Food Type: Fruit & Veg

Calories per 100g: 63

Extra Details: Raw

Amount: 500g

Method:

Step 1 cook food

Step 2 eat

Recipe 3:

Id: 9

Name: Mac'n'Cheese

3 portions

Calories: 1152.0, 384.0 per portion

Ingredient 1:

Id: 35

Name: Pasta

Food Type: Composite Food

Calories per 100g: 87

Extra Details: Long

Amount: 400g

Ingredient 2:

Id: 41

Name: Cheese

Food Type: Dairy

Calories per 100g: 402

Extra Details: Tasty

Amount: 200g

Method:

Step 1 cook food

Step 2 eat

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### Sorts

1. Sorts ingredients

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 26i: Sort ingredients

Data before:

All Ingredients are as follows:

1. Pepper

2. Spring Onion

3. Pasta

4. Tomato Passatta

5. Apples

6. Baked Beans

7. Butter

8. Celery

9. Cheese

10. Eggs

11. Flour

12. Garlic

13. Ground Beef

14. Jam

15. Leeks

16. Lettuce

17. Milk

18. Olive Oil

19. Onion

20. Penne Pasta

21. Pepper

22. Potatoes

23. Salt

24. Stock Cubes

25. Sugar

26. Tomatoes

27. Water

28. White Bread

29. Chicken

30. Fries

31. Rice

32. Curry Sauce

Data after:

All Ingredients are as follows:

1. Apples

2. Baked Beans

3. Butter

4. Celery

5. Cheese

6. Chicken

7. Curry Sauce

8. Eggs

9. Flour

10. Fries

11. Garlic

12. Ground Beef

13. Jam

14. Leeks

15. Lettuce

16. Milk

17. Olive Oil

18. Onion

19. Pasta

20. Penne Pasta

21. Pepper

22. Pepper

23. Potatoes

24. Rice

25. Salt

26. Spring Onion

27. Stock Cubes

28. Sugar

29. Tomato Passatta

30. Tomatoes

31. Water

32. White Bread

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. Sorts recipes

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 27r: Sort recipes

Data before:

All Recipes are as follows:

1. Tomato Pasta

2. Beans on Toast

3. Chicken Sandwich

4. Dirty Fries

5. Chicken Caesar Salad

6. Shepherds Pie

7. Chicken Curry

8. Beef Burger

9. Mac'n'Cheese

10. Chilli Concarne

Data after:

All Recipes are as follows:

1. Beans on Toast

2. Beef Burger

3. Chicken Caesar Salad

4. Chicken Curry

5. Chicken Sandwich

6. Chilli Concarne

7. Dirty Fries

8. Mac'n'Cheese

9. Shepherds Pie

10. Tomato Pasta

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. Sorts daily menus

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 28d: Sort daily menus

Data before:

All Daily Menus are as follows:

1. Wednesday

2. Monday

3. Thursday

Data after:

All Daily Menus are as follows:

1. Monday

2. Wednesday

3. Thursday

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. Sorts available days

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 29a: Sort available days

Data before:

All Available Days are as follows:

1. Monday

2. Wednesday

3. Tuesday

4. Thursday

5. Friday

Data after:

All Available Days are as follows:

1. Monday

2. Tuesday

3. Wednesday

4. Thursday

5. Friday

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### Searches

1. Search for ingredients by name or part name

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 30i: Search for ingredients by name or part name

Data before:

[]

Data after:

[Id: 36

Name: Tomato Passatta

Food Type: Composite Food

Calories per 100g: 83

Extra Details: Tomato sauce, Id: 58

Name: Tomatoes

Food Type: Fruit & Veg

Calories per 100g: 19

Extra Details: Tasty]

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. Search for ingredients by id

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 31i: Search for ingredients by id

Data before:

[]

Data after:

[Id: 36

Name: Tomato Passatta

Food Type: Composite Food

Calories per 100g: 83

Extra Details: Tomato sauce]

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. Search for ingredients by food type

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 32i: Search for ingredients by food type

Data before:

[]

Data after:

[Id: 33

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Red Bell, Id: 34

Name: Spring Onion

Food Type: Fruit & Veg

Calories per 100g: 63

Extra Details: Raw, Id: 37

Name: Apples

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Tasty, Id: 40

Name: Celery

Food Type: Fruit & Veg

Calories per 100g: 8

Extra Details: Tasty, Id: 44

Name: Garlic

Food Type: Fruit & Veg

Calories per 100g: 111

Extra Details: Tasty, Id: 47

Name: Leeks

Food Type: Fruit & Veg

Calories per 100g: 61

Extra Details: Tasty, Id: 48

Name: Lettuce

Food Type: Fruit & Veg

Calories per 100g: 15

Extra Details: Tasty, Id: 51

Name: Onion

Food Type: Fruit & Veg

Calories per 100g: 40

Extra Details: Tasty, Id: 54

Name: Potatoes

Food Type: Fruit & Veg

Calories per 100g: 75

Extra Details: Tasty, Id: 58

Name: Tomatoes

Food Type: Fruit & Veg

Calories per 100g: 19

Extra Details: Tasty]

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. Search for recipes by name or part name

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 33r: Search for recipes by name or part name

Data before:

[]

Data after:

[Id: 2

Name: Beans on Toast

2 portions

Calories: 1570.0, 785.0 per portion

Ingredient 1:

Id: 38

Name: Baked Beans

Food Type: Composite Food

Calories per 100g: 155

Extra Details: Tasty

Amount: 500g

Ingredient 2:

Id: 60

Name: White Bread

Food Type: Composite Food

Calories per 100g: 265

Extra Details: Tasty

Amount: 300g

Method:

Step 1 cook food

Step 2 eat]

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. Search for recipes by id

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 34r: Search for recipes by id

Data before:

[]

Data after:

[Id: 1

Name: Tomato Pasta

2 portions

Calories: 978.5, 489.25 per portion

Ingredient 1:

Id: 33

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Red Bell

Amount: 400g

Ingredient 2:

Id: 34

Name: Spring Onion

Food Type: Fruit & Veg

Calories per 100g: 63

Extra Details: Raw

Amount: 150g

Ingredient 3:

Id: 35

Name: Pasta

Food Type: Composite Food

Calories per 100g: 87

Extra Details: Long

Amount: 300g

Ingredient 4:

Id: 36

Name: Tomato Passatta

Food Type: Composite Food

Calories per 100g: 83

Extra Details: Tomato sauce

Amount: 500g

Method:

Step 1 Cook

Step 2 Eat]

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### Menus: Test 35 -> 44 rely heavily on user inputs, so their test cases aren’t placed here

### Class Tests

#### Ingredients

1. Constructor
   1. Valid

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 45i: Ingredients' constructor

Id: 66

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 53

Extra Details: Tasty

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

* 1. Invalid name

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 45i: Ingredients' constructor

Id: 66

Name: Unknown name

Food Type: Fruit & Veg

Calories per 100g: 53

Extra Details: Tasty

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

* 1. Invalid calories per 100g

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 45i: Ingredients' constructor

Id: 66

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 1

Extra Details: Tasty

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

* 1. Invalid extra details

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 45i: Ingredients' constructor

Id: 66

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 53

Extra Details: No extra details

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. toString

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 45i: Ingredient toString

Id: 65

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 53

Extra Details: Tasty

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### Recipes

1. Constructor
   1. Valid

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 45ra: Recipes' constructor

Id: 22

Name: Cheese sandwich

2 portions

Calories: 1398.0, 699.0 per portion

Ingredient 1:

Id: 28

Name: White Bread

Food Type: Composite Food

Calories per 100g: 265

Extra Details: Tasty

Amount: 300g

Ingredient 2:

Id: 9

Name: Cheese

Food Type: Dairy

Calories per 100g: 402

Extra Details: Tasty

Amount: 150g

Method:

Step 1 Cook

Step 2 Eat

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

* 1. Invalid name

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 45ra: Recipes' constructor

Id: 22

Name: Unknown name

2 portions

Calories: 1398.0, 699.0 per portion

Ingredient 1:

Id: 28

Name: White Bread

Food Type: Composite Food

Calories per 100g: 265

Extra Details: Tasty

Amount: 300g

Ingredient 2:

Id: 9

Name: Cheese

Food Type: Dairy

Calories per 100g: 402

Extra Details: Tasty

Amount: 150g

Method:

Step 1 Cook

Step 2 Eat

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

* 1. Invalid method

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 45ra: Recipes' constructor

Id: 22

Name: Cheese sandwich

2 portions

Calories: 1398.0, 699.0 per portion

Ingredient 1:

Id: 28

Name: White Bread

Food Type: Composite Food

Calories per 100g: 265

Extra Details: Tasty

Amount: 300g

Ingredient 2:

Id: 9

Name: Cheese

Food Type: Dairy

Calories per 100g: 402

Extra Details: Tasty

Amount: 150g

Method:

Step 1 Unavailable

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

* 1. Invalid number of portions

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 45ra: Recipes' constructor

Id: 22

Name: Cheese sandwich

1 portions

Calories: 1398.0, 1398.0 per portion

Ingredient 1:

Id: 28

Name: White Bread

Food Type: Composite Food

Calories per 100g: 265

Extra Details: Tasty

Amount: 300g

Ingredient 2:

Id: 9

Name: Cheese

Food Type: Dairy

Calories per 100g: 402

Extra Details: Tasty

Amount: 150g

Method:

Step 1 Cook

Step 2 Eat

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. toString (and calorie calculations)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 46r: Recipes' toString

Id: 65

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 53

Extra Details: Tasty

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### Daily Menus

1. Constructor

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 45d: Daily menus' constructor

Day of the Week: Monday

Recipe 1:

Id: 14

Name: Dirty Fries

1 portions

Calories: 639.0, 639.0 per portion

Ingredient 1:

Id: 62

Name: Fries

Food Type: Composite Food

Calories per 100g: 105

Extra Details: Tasty

Amount: 400g

Ingredient 2:

Id: 61

Name: Chicken

Food Type: Protein

Calories per 100g: 146

Extra Details: Tasty

Amount: 150g

Method:

Step 1 cook food

Step 2 eat

Recipe 2:

Id: 17

Name: Chicken Curry

4 portions

Calories: 2704.0, 676.0 per portion

Ingredient 1:

Id: 61

Name: Chicken

Food Type: Protein

Calories per 100g: 146

Extra Details: Tasty

Amount: 400g

Ingredient 2:

Id: 63

Name: Rice

Food Type: Composite Food

Calories per 100g: 400

Extra Details: Tasty

Amount: 500g

Ingredient 3:

Id: 64

Name: Curry Sauce

Food Type: Spice & Herb

Calories per 100g: 80

Extra Details: Tasty

Amount: 150g

Method:

Step 1 cook food

Step 2 eat

Recipe 3:

Id: 19

Name: Mac'n'Cheese

3 portions

Calories: 1152.0, 384.0 per portion

Ingredient 1:

Id: 35

Name: Pasta

Food Type: Composite Food

Calories per 100g: 87

Extra Details: Long

Amount: 400g

Ingredient 2:

Id: 41

Name: Cheese

Food Type: Dairy

Calories per 100g: 402

Extra Details: Tasty

Amount: 200g

Method:

Step 1 cook food

Step 2 eat

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. toString

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 46d: Daily menus' toString

Day of the Week: Monday

Recipe 1:

Id: 14

Name: Dirty Fries

1 portions

Calories: 639.0, 639.0 per portion

Ingredient 1:

Id: 62

Name: Fries

Food Type: Composite Food

Calories per 100g: 105

Extra Details: Tasty

Amount: 400g

Ingredient 2:

Id: 61

Name: Chicken

Food Type: Protein

Calories per 100g: 146

Extra Details: Tasty

Amount: 150g

Method:

Step 1 cook food

Step 2 eat

Recipe 2:

Id: 17

Name: Chicken Curry

4 portions

Calories: 2704.0, 676.0 per portion

Ingredient 1:

Id: 61

Name: Chicken

Food Type: Protein

Calories per 100g: 146

Extra Details: Tasty

Amount: 400g

Ingredient 2:

Id: 63

Name: Rice

Food Type: Composite Food

Calories per 100g: 400

Extra Details: Tasty

Amount: 500g

Ingredient 3:

Id: 64

Name: Curry Sauce

Food Type: Spice & Herb

Calories per 100g: 80

Extra Details: Tasty

Amount: 150g

Method:

Step 1 cook food

Step 2 eat

Recipe 3:

Id: 19

Name: Mac'n'Cheese

3 portions

Calories: 1152.0, 384.0 per portion

Ingredient 1:

Id: 35

Name: Pasta

Food Type: Composite Food

Calories per 100g: 87

Extra Details: Long

Amount: 400g

Ingredient 2:

Id: 41

Name: Cheese

Food Type: Dairy

Calories per 100g: 402

Extra Details: Tasty

Amount: 200g

Method:

Step 1 cook food

Step 2 eat

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### Resources

1. Preloading values
   1. Ingredients

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 47i: Preload ingredients

Data before:

[]

Data after:

[Id: 66

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Red Bell, Id: 67

Name: Spring Onion

Food Type: Fruit & Veg

Calories per 100g: 63

Extra Details: Raw, Id: 68

Name: Pasta

Food Type: Composite Food

Calories per 100g: 87

Extra Details: Long, Id: 69

Name: Tomato Passatta

Food Type: Composite Food

Calories per 100g: 83

Extra Details: Tomato sauce, Id: 70

Name: Apples

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Tasty, Id: 71

Name: Baked Beans

Food Type: Composite Food

Calories per 100g: 155

Extra Details: Tasty, Id: 72

Name: Butter

Food Type: Dairy

Calories per 100g: 717

Extra Details: Tasty, Id: 73

Name: Celery

Food Type: Fruit & Veg

Calories per 100g: 8

Extra Details: Tasty, Id: 74

Name: Cheese

Food Type: Dairy

Calories per 100g: 402

Extra Details: Tasty, Id: 75

Name: Eggs

Food Type: Dairy

Calories per 100g: 155

Extra Details: Tasty, Id: 76

Name: Flour

Food Type: Cereal

Calories per 100g: 364

Extra Details: Tasty, Id: 77

Name: Garlic

Food Type: Fruit & Veg

Calories per 100g: 111

Extra Details: Tasty, Id: 78

Name: Ground Beef

Food Type: Protein

Calories per 100g: 332

Extra Details: Tasty, Id: 79

Name: Jam

Food Type: Sugar

Calories per 100g: 278

Extra Details: Tasty, Id: 80

Name: Leeks

Food Type: Fruit & Veg

Calories per 100g: 61

Extra Details: Tasty, Id: 81

Name: Lettuce

Food Type: Fruit & Veg

Calories per 100g: 15

Extra Details: Tasty, Id: 82

Name: Milk

Food Type: Dairy

Calories per 100g: 42

Extra Details: Tasty, Id: 83

Name: Olive Oil

Food Type: Fat

Calories per 100g: 884

Extra Details: Tasty, Id: 84

Name: Onion

Food Type: Fruit & Veg

Calories per 100g: 40

Extra Details: Tasty, Id: 85

Name: Penne Pasta

Food Type: Composite Food

Calories per 100g: 118

Extra Details: Tasty, Id: 86

Name: Pepper

Food Type: Spice & Herb

Calories per 100g: 20

Extra Details: Yellow Bell, Id: 87

Name: Potatoes

Food Type: Fruit & Veg

Calories per 100g: 75

Extra Details: Tasty, Id: 88

Name: Salt

Food Type: Essential Nutrient

Calories per 100g: 1

Extra Details: Tasty, Id: 89

Name: Stock Cubes

Food Type: Composite Food

Calories per 100g: 438

Extra Details: Tasty, Id: 90

Name: Sugar

Food Type: Sugar

Calories per 100g: 387

Extra Details: Tasty, Id: 91

Name: Tomatoes

Food Type: Fruit & Veg

Calories per 100g: 19

Extra Details: Tasty, Id: 92

Name: Water

Food Type: Essential Nutrient

Calories per 100g: 1

Extra Details: Tasty, Id: 93

Name: White Bread

Food Type: Composite Food

Calories per 100g: 265

Extra Details: Tasty, Id: 94

Name: Chicken

Food Type: Protein

Calories per 100g: 146

Extra Details: Tasty, Id: 95

Name: Fries

Food Type: Composite Food

Calories per 100g: 105

Extra Details: Tasty, Id: 96

Name: Rice

Food Type: Composite Food

Calories per 100g: 400

Extra Details: Tasty, Id: 97

Name: Curry Sauce

Food Type: Spice & Herb

Calories per 100g: 80

Extra Details: Tasty]

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. Recipes

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 47r: Preload recipes

Data before:

[]

Data after:

[Id: 22

Name: Tomato Pasta

2 portions

Calories: 978.5, 489.25 per portion

Ingredient 1:

Id: 33

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Red Bell

Amount: 400g

Ingredient 2:

Id: 34

Name: Spring Onion

Food Type: Fruit & Veg

Calories per 100g: 63

Extra Details: Raw

Amount: 150g

Ingredient 3:

Id: 35

Name: Pasta

Food Type: Composite Food

Calories per 100g: 87

Extra Details: Long

Amount: 300g

Ingredient 4:

Id: 36

Name: Tomato Passatta

Food Type: Composite Food

Calories per 100g: 83

Extra Details: Tomato sauce

Amount: 500g

Method:

Step 1 Cook

Step 2 Eat, Id: 23

Name: Beans on Toast

2 portions

Calories: 1570.0, 785.0 per portion

Ingredient 1:

Id: 38

Name: Baked Beans

Food Type: Composite Food

Calories per 100g: 155

Extra Details: Tasty

Amount: 500g

Ingredient 2:

Id: 60

Name: White Bread

Food Type: Composite Food

Calories per 100g: 265

Extra Details: Tasty

Amount: 300g

Method:

Step 1 cook food

Step 2 eat, Id: 24

Name: Chicken Sandwich

3 portions

Calories: 1324.0, 441.3333333333333 per portion

Ingredient 1:

Id: 60

Name: White Bread

Food Type: Composite Food

Calories per 100g: 265

Extra Details: Tasty

Amount: 400g

Ingredient 2:

Id: 61

Name: Chicken

Food Type: Protein

Calories per 100g: 146

Extra Details: Tasty

Amount: 150g

Ingredient 3:

Id: 48

Name: Lettuce

Food Type: Fruit & Veg

Calories per 100g: 15

Extra Details: Tasty

Amount: 300g

Method:

Step 1 cook food

Step 2 eat, Id: 25

Name: Dirty Fries

1 portions

Calories: 639.0, 639.0 per portion

Ingredient 1:

Id: 62

Name: Fries

Food Type: Composite Food

Calories per 100g: 105

Extra Details: Tasty

Amount: 400g

Ingredient 2:

Id: 61

Name: Chicken

Food Type: Protein

Calories per 100g: 146

Extra Details: Tasty

Amount: 150g

Method:

Step 1 cook food

Step 2 eat, Id: 26

Name: Chicken Caesar Salad

5 portions

Calories: 1008.5, 201.7 per portion

Ingredient 1:

Id: 61

Name: Chicken

Food Type: Protein

Calories per 100g: 146

Extra Details: Tasty

Amount: 400g

Ingredient 2:

Id: 48

Name: Lettuce

Food Type: Fruit & Veg

Calories per 100g: 15

Extra Details: Tasty

Amount: 150g

Ingredient 3:

Id: 41

Name: Cheese

Food Type: Dairy

Calories per 100g: 402

Extra Details: Tasty

Amount: 100g

Method:

Step 1 cook food

Step 2 eat, Id: 27

Name: Shepherds Pie

7 portions

Calories: 2582.0, 368.85714285714283 per portion

Ingredient 1:

Id: 45

Name: Ground Beef

Food Type: Protein

Calories per 100g: 332

Extra Details: Tasty

Amount: 400g

Ingredient 2:

Id: 54

Name: Potatoes

Food Type: Fruit & Veg

Calories per 100g: 75

Extra Details: Tasty

Amount: 600g

Ingredient 3:

Id: 41

Name: Cheese

Food Type: Dairy

Calories per 100g: 402

Extra Details: Tasty

Amount: 200g

Method:

Step 1 cook food

Step 2 eat, Id: 28

Name: Chicken Curry

4 portions

Calories: 2704.0, 676.0 per portion

Ingredient 1:

Id: 61

Name: Chicken

Food Type: Protein

Calories per 100g: 146

Extra Details: Tasty

Amount: 400g

Ingredient 2:

Id: 63

Name: Rice

Food Type: Composite Food

Calories per 100g: 400

Extra Details: Tasty

Amount: 500g

Ingredient 3:

Id: 64

Name: Curry Sauce

Food Type: Spice & Herb

Calories per 100g: 80

Extra Details: Tasty

Amount: 150g

Method:

Step 1 cook food

Step 2 eat, Id: 29

Name: Beef Burger

3 portions

Calories: 1770.5, 590.1666666666666 per portion

Ingredient 1:

Id: 45

Name: Ground Beef

Food Type: Protein

Calories per 100g: 332

Extra Details: Tasty

Amount: 400g

Ingredient 2:

Id: 60

Name: White Bread

Food Type: Composite Food

Calories per 100g: 265

Extra Details: Tasty

Amount: 150g

Ingredient 3:

Id: 48

Name: Lettuce

Food Type: Fruit & Veg

Calories per 100g: 15

Extra Details: Tasty

Amount: 300g

Method:

Step 1 cook food

Step 2 eat, Id: 30

Name: Mac'n'Cheese

3 portions

Calories: 1152.0, 384.0 per portion

Ingredient 1:

Id: 35

Name: Pasta

Food Type: Composite Food

Calories per 100g: 87

Extra Details: Long

Amount: 400g

Ingredient 2:

Id: 41

Name: Cheese

Food Type: Dairy

Calories per 100g: 402

Extra Details: Tasty

Amount: 200g

Method:

Step 1 cook food

Step 2 eat, Id: 31

Name: Chilli Concarne

2 portions

Calories: 1825.0, 912.5 per portion

Ingredient 1:

Id: 45

Name: Ground Beef

Food Type: Protein

Calories per 100g: 332

Extra Details: Tasty

Amount: 400g

Ingredient 2:

Id: 33

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Red Bell

Amount: 350g

Ingredient 3:

Id: 34

Name: Spring Onion

Food Type: Fruit & Veg

Calories per 100g: 63

Extra Details: Raw

Amount: 500g

Method:

Step 1 cook food

Step 2 eat]

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. Daily menus

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 47d: Preload daily menus

Data before:

[]

Data after:

[Day of the Week: Monday

Recipe 1:

Id: 1

Name: Tomato Pasta

2 portions

Calories: 978.5, 489.25 per portion

Ingredient 1:

Id: 33

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Red Bell

Amount: 400g

Ingredient 2:

Id: 34

Name: Spring Onion

Food Type: Fruit & Veg

Calories per 100g: 63

Extra Details: Raw

Amount: 150g

Ingredient 3:

Id: 35

Name: Pasta

Food Type: Composite Food

Calories per 100g: 87

Extra Details: Long

Amount: 300g

Ingredient 4:

Id: 36

Name: Tomato Passatta

Food Type: Composite Food

Calories per 100g: 83

Extra Details: Tomato sauce

Amount: 500g

Method:

Step 1 Cook

Step 2 Eat

Recipe 2:

Id: 2

Name: Beans on Toast

2 portions

Calories: 1570.0, 785.0 per portion

Ingredient 1:

Id: 38

Name: Baked Beans

Food Type: Composite Food

Calories per 100g: 155

Extra Details: Tasty

Amount: 500g

Ingredient 2:

Id: 60

Name: White Bread

Food Type: Composite Food

Calories per 100g: 265

Extra Details: Tasty

Amount: 300g

Method:

Step 1 cook food

Step 2 eat

Recipe 3:

Id: 4

Name: Dirty Fries

1 portions

Calories: 639.0, 639.0 per portion

Ingredient 1:

Id: 62

Name: Fries

Food Type: Composite Food

Calories per 100g: 105

Extra Details: Tasty

Amount: 400g

Ingredient 2:

Id: 61

Name: Chicken

Food Type: Protein

Calories per 100g: 146

Extra Details: Tasty

Amount: 150g

Method:

Step 1 cook food

Step 2 eat

, Day of the Week: Wednesday

Recipe 1:

Id: 4

Name: Dirty Fries

1 portions

Calories: 639.0, 639.0 per portion

Ingredient 1:

Id: 62

Name: Fries

Food Type: Composite Food

Calories per 100g: 105

Extra Details: Tasty

Amount: 400g

Ingredient 2:

Id: 61

Name: Chicken

Food Type: Protein

Calories per 100g: 146

Extra Details: Tasty

Amount: 150g

Method:

Step 1 cook food

Step 2 eat

Recipe 2:

Id: 5

Name: Chicken Caesar Salad

5 portions

Calories: 1008.5, 201.7 per portion

Ingredient 1:

Id: 61

Name: Chicken

Food Type: Protein

Calories per 100g: 146

Extra Details: Tasty

Amount: 400g

Ingredient 2:

Id: 48

Name: Lettuce

Food Type: Fruit & Veg

Calories per 100g: 15

Extra Details: Tasty

Amount: 150g

Ingredient 3:

Id: 41

Name: Cheese

Food Type: Dairy

Calories per 100g: 402

Extra Details: Tasty

Amount: 100g

Method:

Step 1 cook food

Step 2 eat

Recipe 3:

Id: 6

Name: Shepherds Pie

7 portions

Calories: 2582.0, 368.85714285714283 per portion

Ingredient 1:

Id: 45

Name: Ground Beef

Food Type: Protein

Calories per 100g: 332

Extra Details: Tasty

Amount: 400g

Ingredient 2:

Id: 54

Name: Potatoes

Food Type: Fruit & Veg

Calories per 100g: 75

Extra Details: Tasty

Amount: 600g

Ingredient 3:

Id: 41

Name: Cheese

Food Type: Dairy

Calories per 100g: 402

Extra Details: Tasty

Amount: 200g

Method:

Step 1 cook food

Step 2 eat

, Day of the Week: Thursday

Recipe 1:

Id: 7

Name: Chicken Curry

4 portions

Calories: 2704.0, 676.0 per portion

Ingredient 1:

Id: 61

Name: Chicken

Food Type: Protein

Calories per 100g: 146

Extra Details: Tasty

Amount: 400g

Ingredient 2:

Id: 63

Name: Rice

Food Type: Composite Food

Calories per 100g: 400

Extra Details: Tasty

Amount: 500g

Ingredient 3:

Id: 64

Name: Curry Sauce

Food Type: Spice & Herb

Calories per 100g: 80

Extra Details: Tasty

Amount: 150g

Method:

Step 1 cook food

Step 2 eat

Recipe 2:

Id: 8

Name: Beef Burger

3 portions

Calories: 1770.5, 590.1666666666666 per portion

Ingredient 1:

Id: 45

Name: Ground Beef

Food Type: Protein

Calories per 100g: 332

Extra Details: Tasty

Amount: 400g

Ingredient 2:

Id: 60

Name: White Bread

Food Type: Composite Food

Calories per 100g: 265

Extra Details: Tasty

Amount: 150g

Ingredient 3:

Id: 48

Name: Lettuce

Food Type: Fruit & Veg

Calories per 100g: 15

Extra Details: Tasty

Amount: 300g

Method:

Step 1 cook food

Step 2 eat

Recipe 3:

Id: 9

Name: Mac'n'Cheese

3 portions

Calories: 1152.0, 384.0 per portion

Ingredient 1:

Id: 35

Name: Pasta

Food Type: Composite Food

Calories per 100g: 87

Extra Details: Long

Amount: 400g

Ingredient 2:

Id: 41

Name: Cheese

Food Type: Dairy

Calories per 100g: 402

Extra Details: Tasty

Amount: 200g

Method:

Step 1 cook food

Step 2 eat

]

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

# Defects

All descriptions of fixes are in excel comments or in now commented code

## 3b

### Before

Code:

A computer screen shot of text

Description automatically generated

Output:

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 3: Ensuring each list of items can display their items properly

All Available Days are as follows:

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### After

Code: A screen shot of a computer program

Description automatically generated

Output:

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 3: Ensuring each list of items can display their items properly

No items to display from selected list

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

## 6

### Before

Code: A screen shot of a computer program

Description automatically generated

Output:

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 6: Testing the select item method to ensure it returns valid indexes

No items to display from selected list

Type -1 to cancel and return to menu

Enter desired item

---> 3

No items to display from selected list

Type -1 to cancel and return to menu

Please enter a valid Available Day index:

---> 2

No items to display from selected list

Type -1 to cancel and return to menu

Please enter a valid Available Day index:

---> 1

No items to display from selected list

Type -1 to cancel and return to menu

Please enter a valid Available Day index:

---> -1

-2 --> Should be one less than user input

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### After

Code:

A screen shot of a computer program

Description automatically generated

Output:

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 6: Testing the select item method to ensure it returns valid indexes

No items to display from selected list

-2 --> Should be one less than user input

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

## 8

### Before

Code:

A screenshot of a computer program

Description automatically generated

Output:

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 8: Testing the method to remove items for ingredidents, recipes and daily menus

Data before:

Exception in thread "main" java.lang.ArrayIndexOutOfBoundsException: Index 3 out of bounds for length 3

at part01.QUBKitchen.removeItem(QUBKitchen.java:211)

at part02.TestCases.testCase8(TestCases.java:80)

at part02.TestCases.main(TestCases.java:18)

### After

Code: A screen shot of a computer

Description automatically generated

Output:

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 8i: Remove items from lists with a cascade delete

Data before:

All Ingredients are as follows:

1. Pepper

2. Spring Onion

3. Pasta

4. Tomato Passatta

5. Apples

6. Baked Beans

7. Butter

8. Celery

9. Cheese

10. Eggs

11. Flour

12. Garlic

13. Ground Beef

14. Jam

15. Leeks

16. Lettuce

17. Milk

18. Olive Oil

19. Onion

20. Penne Pasta

21. Pepper

22. Potatoes

23. Salt

24. Stock Cubes

25. Sugar

26. Tomatoes

27. Water

28. White Bread

29. Chicken

30. Fries

31. Rice

32. Curry Sauce

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

All Recipes are as follows:

1. Tomato Pasta

2. Beans on Toast

3. Chicken Sandwich

4. Dirty Fries

5. Chicken Caesar Salad

6. Shepherds Pie

7. Chicken Curry

8. Beef Burger

9. Mac'n'Cheese

10. Chilli Concarne

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

All Daily Menus are as follows:

1. Monday

2. Wednesday

3. Thursday

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Data after:

All Ingredients are as follows:

1. Pepper

2. Pasta

3. Tomato Passatta

4. Apples

5. Baked Beans

6. Butter

7. Celery

8. Cheese

9. Eggs

10. Flour

11. Garlic

12. Ground Beef

13. Jam

14. Leeks

15. Lettuce

16. Milk

17. Olive Oil

18. Onion

19. Penne Pasta

20. Pepper

21. Potatoes

22. Salt

23. Stock Cubes

24. Sugar

25. Tomatoes

26. Water

27. White Bread

28. Chicken

29. Fries

30. Rice

31. Curry Sauce

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

All Recipes are as follows:

1. Beans on Toast

2. Chicken Sandwich

3. Dirty Fries

4. Chicken Caesar Salad

5. Shepherds Pie

6. Chicken Curry

7. Beef Burger

8. Mac'n'Cheese

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

All Daily Menus are as follows:

1. Wednesday

2. Thursday

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

## 10

### Before

Code:

A screen shot of a computer

Description automatically generated

Output:

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 10: Testing the method to display details of a specified item from ingredients, recipes or daily menus

Crashed with error after

### After

Code:

A screen shot of a computer program

Description automatically generated

Output:

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 10: Testing the method to display details of a specified item from ingredients, recipes or daily menus

No Ingredients available to display

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

## 15r

### Before

Code: A screen shot of a computer program

Description automatically generated

Output:

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 15: Testing the method to set a recipe's method

Method before:

Type 'cancel' to cancel and return to menu

Enter step 1. (type 'done' if finished with method and don't include the '|' character in your steps):

--->

Type 'cancel' to cancel and return to menu

Enter step 2. (type 'done' if finished with method and don't include the '|' character in your steps):

--->

Type 'cancel' to cancel and return to menu

Enter step 3. (type 'done' if finished with method and don't include the '|' character in your steps):

--->

Type 'cancel' to cancel and return to menu

Enter step 4. (type 'done' if finished with method and don't include the '|' character in your steps):

--->

Type 'cancel' to cancel and return to menu

Enter step 5. (type 'done' if finished with method and don't include the '|' character in your steps):

---> done

Method after: ||||

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### After

Code:

A screen shot of a computer program

Description automatically generated

Output:

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 15: Testing the method to set a recipe's method

Method before:

Type 'cancel' to cancel and return to menu

Enter step 1. (type 'done' if finished with method and don't include the '|' character in your steps):

--->

Type 'cancel' to cancel and return to menu

Enter step 1. (type 'done' if finished with method and don't include the '|' character in your steps):

--->

Type 'cancel' to cancel and return to menu

Enter step 1. (type 'done' if finished with method and don't include the '|' character in your steps):

--->

Type 'cancel' to cancel and return to menu

Enter step 1. (type 'done' if finished with method and don't include the '|' character in your steps):

--->

Type 'cancel' to cancel and return to menu

Enter step 1. (type 'done' if finished with method and don't include the '|' character in your steps):

--->

Type 'cancel' to cancel and return to menu

Enter step 1. (type 'done' if finished with method and don't include the '|' character in your steps):

--->

Type 'cancel' to cancel and return to menu

Enter step 1. (type 'done' if finished with method and don't include the '|' character in your steps):

--->

Type 'cancel' to cancel and return to menu

Enter step 1. (type 'done' if finished with method and don't include the '|' character in your steps):

---> hello

Type 'cancel' to cancel and return to menu

Enter step 2. (type 'done' if finished with method and don't include the '|' character in your steps):

---> done

Method after: hello|

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

## 20r

### Before

Code:

A screen shot of a computer program

Description automatically generated

Output:

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 20: Testing the method to update a recipe's ingredient's quantity

Data before:

Name: Tomato Pasta

2 portions

Calories: 978.5, 489.25 per portion

Ingredient 1:

Id: 33

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Red Bell

Amount: 400g

Ingredient 2:

Id: 34

Name: Spring Onion

Food Type: Fruit & Veg

Calories per 100g: 63

Extra Details: Raw

Amount: 150g

Ingredient 3:

Id: 35

Name: Pasta

Food Type: Composite Food

Calories per 100g: 87

Extra Details: Long

Amount: 300g

Ingredient 4:

Id: 36

Name: Tomato Passatta

Food Type: Composite Food

Calories per 100g: 83

Extra Details: Tomato sauce

Amount: 500g

Method:

Step 1 Cook

Step 2 Eat

Type -1 to cancel and return to menu

All ingredients are as follows:

1.

Id: 33

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Red Bell --> 400g

2.

Id: 34

Name: Spring Onion

Food Type: Fruit & Veg

Calories per 100g: 63

Extra Details: Raw --> 150g

3.

Id: 35

Name: Pasta

Food Type: Composite Food

Calories per 100g: 87

Extra Details: Long --> 300g

4.

Id: 36

Name: Tomato Passatta

Food Type: Composite Food

Calories per 100g: 83

Extra Details: Tomato sauce --> 500g

Which ingredient would you like to update?

---> 5

Type -1 to cancel and return to menu

Enter new amount:

---> 89

Code crashed after due to index exception

### After

Code: A screen shot of a computer program

Description automatically generated

Output:

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 20: Testing the method to update a recipe's ingredient's quantity

Data before:

Name: Tomato Pasta

2 portions

Calories: 978.5, 489.25 per portion

Ingredient 1:

Id: 33

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Red Bell

Amount: 400g

Ingredient 2:

Id: 34

Name: Spring Onion

Food Type: Fruit & Veg

Calories per 100g: 63

Extra Details: Raw

Amount: 150g

Ingredient 3:

Id: 35

Name: Pasta

Food Type: Composite Food

Calories per 100g: 87

Extra Details: Long

Amount: 300g

Ingredient 4:

Id: 36

Name: Tomato Passatta

Food Type: Composite Food

Calories per 100g: 83

Extra Details: Tomato sauce

Amount: 500g

Method:

Step 1 Cook

Step 2 Eat

Type -1 to cancel and return to menu

All ingredients are as follows:

1.

Id: 33

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Red Bell --> 400g

2.

Id: 34

Name: Spring Onion

Food Type: Fruit & Veg

Calories per 100g: 63

Extra Details: Raw --> 150g

3.

Id: 35

Name: Pasta

Food Type: Composite Food

Calories per 100g: 87

Extra Details: Long --> 300g

4.

Id: 36

Name: Tomato Passatta

Food Type: Composite Food

Calories per 100g: 83

Extra Details: Tomato sauce --> 500g

Which ingredient would you like to update?

---> -9

Type -1 to cancel and return to menu

All ingredients are as follows:

1.

Id: 33

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Red Bell --> 400g

2.

Id: 34

Name: Spring Onion

Food Type: Fruit & Veg

Calories per 100g: 63

Extra Details: Raw --> 150g

3.

Id: 35

Name: Pasta

Food Type: Composite Food

Calories per 100g: 87

Extra Details: Long --> 300g

4.

Id: 36

Name: Tomato Passatta

Food Type: Composite Food

Calories per 100g: 83

Extra Details: Tomato sauce --> 500g

Which ingredient would you like to update?

---> 9

Type -1 to cancel and return to menu

All ingredients are as follows:

1.

Id: 33

Name: Pepper

Food Type: Fruit & Veg

Calories per 100g: 52

Extra Details: Red Bell --> 400g

2.

Id: 34

Name: Spring Onion

Food Type: Fruit & Veg

Calories per 100g: 63

Extra Details: Raw --> 150g

3.

Id: 35

Name: Pasta

Food Type: Composite Food

Calories per 100g: 87

Extra Details: Long --> 300g

4.

Id: 36

Name: Tomato Passatta

Food Type: Composite Food

Calories per 100g: 83

Extra Details: Tomato sauce --> 500g

Which ingredient would you like to update?

--->

## 36

### Before

Code:

A screen shot of a computer program

Description automatically generated

Output:

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 36: Testing the manageIngrediennts method for each ingredients menu option with different types of data to ensure it works and is error handled for each method

++++++++++++++++++

Manage Ingredients

++++++++++++++++++

1. Add ingredient

2. Remove ingredient

3. Remove all ingredients

4. Display all ingredients

5. Display ingredient details

6. Search for an ingredient

7. Update ingredient details

8. Return to Main Menu

Enter (valid) choice: 6

All Ingredient Options are as follows:

1. Id

2. Name

3. Food Group

Type -1 to cancel and return to menu

Select what you want to search by:

---> 1

Type -1 to cancel and return to menu

Enter ingredient id:

---> 123

### After

Code:

A screen shot of a computer program

Description automatically generatedOutput:

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 36: Testing the manageIngrediennts method for each ingredients menu option with different types of data to ensure it works and is error handled for each method

++++++++++++++++++

Manage Ingredients

++++++++++++++++++

1. Add ingredient

2. Remove ingredient

3. Remove all ingredients

4. Display all ingredients

5. Display ingredient details

6. Search for an ingredient

7. Update ingredient details

8. Return to Main Menu

Enter (valid) choice: 6

All Ingredient Options are as follows:

1. Id

2. Name

3. Food Group

Type -1 to cancel and return to menu

Select what you want to search by:

---> 1

Type -1 to cancel and return to menu

Enter ingredient id:

---> 123

No results meet the criteria

## 37

### Before

Code:

A screen shot of a computer screen

Description automatically generated

Output:

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 37: Testing the updateIngredientChoice method with different types of data to ensure it works and is error handled for updating ingredients and managing them

Type -1 to cancel and return to menu

All ingredients are as follows:

1: Pepper

2: Spring Onion

3: Pasta

4: Tomato Passatta

5: Apples

6: Baked Beans

7: Butter

8: Celery

9: Cheese

10: Eggs

11: Flour

12: Garlic

13: Ground Beef

14: Jam

15: Leeks

16: Lettuce

17: Milk

18: Olive Oil

19: Onion

20: Penne Pasta

21: Pepper

22: Potatoes

23: Salt

24: Stock Cubes

25: Sugar

26: Tomatoes

27: Water

28: White Bread

29: Chicken

30: Fries

31: Rice

32: Curry Sauce

Which ingredient would you like to update?

---> 35

Type -1 to cancel and return to menu

1. Name

2. Extra Details

3. Food Type

4. Calories per 100g

Which ingredient attribute do you want to update?:

---> w

Invalid option picked! Ensure valid input!

Type -1 to cancel and return to menu

1. Name

2. Extra Details

3. Food Type

4. Calories per 100g

Which ingredient attribute do you want to update?:

---> 2

Type 'cancel' to cancel and return to menu

Enter new extra details:

---> this won't work

After, it called an out of bounds index exception

### After

Code:

A screen shot of a computer program

Description automatically generated

Output:

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 37: Testing the updateIngredientChoice method with different types of data to ensure it works and is error handled for updating ingredients and managing them

Data before:

Id: 34

Name: Spring Onion

Food Type: Fruit & Veg

Calories per 100g: 63

Extra Details: Raw

Type -1 to cancel and return to menu

All ingredients are as follows:

1: Pepper

2: Spring Onion

3: Pasta

4: Tomato Passatta

5: Apples

6: Baked Beans

7: Butter

8: Celery

9: Cheese

10: Eggs

11: Flour

12: Garlic

13: Ground Beef

14: Jam

15: Leeks

16: Lettuce

17: Milk

18: Olive Oil

19: Onion

20: Penne Pasta

21: Pepper

22: Potatoes

23: Salt

24: Stock Cubes

25: Sugar

26: Tomatoes

27: Water

28: White Bread

29: Chicken

30: Fries

31: Rice

32: Curry Sauce

Which ingredient would you like to update?

---> 123

Type -1 to cancel and return to menu

All ingredients are as follows:

1: Pepper

2: Spring Onion

3: Pasta

4: Tomato Passatta

5: Apples

6: Baked Beans

7: Butter

8: Celery

9: Cheese

10: Eggs

11: Flour

12: Garlic

13: Ground Beef

14: Jam

15: Leeks

16: Lettuce

17: Milk

18: Olive Oil

19: Onion

20: Penne Pasta

21: Pepper

22: Potatoes

23: Salt

24: Stock Cubes

25: Sugar

26: Tomatoes

27: Water

28: White Bread

29: Chicken

30: Fries

31: Rice

32: Curry Sauce

Which ingredient would you like to update?

--->

## Test Case 40

### Before

Code:

A screenshot of a computer

Description automatically generated

Output:

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 40: Testing the addRecipe method for different types of data to ensure it works and is error handled for adding new recipes

Type 'cancel' to cancel and return to menu

Recipe name:

---> new recipe

Type -1 to cancel and return to menu

How many portions does it serve?

---> -123

All Ingredients are as follows:

1. Pepper

2. Spring Onion

3. Pasta

4. Tomato Passatta

5. Apples

6. Baked Beans

7. Butter

8. Celery

9. Cheese

10. Eggs

11. Flour

12. Garlic

13. Ground Beef

14. Jam

15. Leeks

16. Lettuce

17. Milk

18. Olive Oil

19. Onion

20. Penne Pasta

21. Pepper

22. Potatoes

23. Salt

24. Stock Cubes

25. Sugar

26. Tomatoes

27. Water

28. White Bread

29. Chicken

30. Fries

31. Rice

32. Curry Sauce

Type -1 to cancel and return to menu

Enter a valid ingredient:

---> 2

Type -1 to cancel and return to menu

How much do you need? (grams):

---> 400

Type -1 to cancel and return to menu

Do you want to add another ingredient?

1. Yes

2. No

---> 2

Type 'cancel' to cancel and return to menu

Enter step 1. (type 'done' if finished with method and don't include the '|' character in your steps):

---> cook

Type 'cancel' to cancel and return to menu

Enter step 2. (type 'done' if finished with method and don't include the '|' character in your steps):

---> done

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### After

Code:

A screen shot of a computer code

Description automatically generated

Output:

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 40: Testing the addRecipe method for different types of data to ensure it works and is error handled for adding new recipes

Type 'cancel' to cancel and return to menu

Recipe name:

---> new Recipe

Type -1 to cancel and return to menu

How many portions does it serve?

---> -123

Type -1 to cancel and return to menu

How many portions does it serve?

---> 23

All Ingredients are as follows:

1. Pepper

2. Spring Onion

3. Pasta

4. Tomato Passatta

5. Apples

6. Baked Beans

7. Butter

8. Celery

9. Cheese

10. Eggs

11. Flour

12. Garlic

13. Ground Beef

14. Jam

15. Leeks

16. Lettuce

17. Milk

18. Olive Oil

19. Onion

20. Penne Pasta

21. Pepper

22. Potatoes

23. Salt

24. Stock Cubes

25. Sugar

26. Tomatoes

27. Water

28. White Bread

29. Chicken

30. Fries

31. Rice

32. Curry Sauce

Type -1 to cancel and return to menu

Enter a valid ingredient:

---> 30

Type -1 to cancel and return to menu

How much do you need? (grams):

---> Cook

Invalid option picked! Ensure valid input!

Type -1 to cancel and return to menu

How much do you need? (grams):

---> done

Invalid option picked! Ensure valid input!

Type -1 to cancel and return to menu

How much do you need? (grams):

---> 400

Type -1 to cancel and return to menu

Do you want to add another ingredient?

1. Yes

2. No

---> 2

Type 'cancel' to cancel and return to menu

Enter step 1. (type 'done' if finished with method and don't include the '|' character in your steps):

---> cook

Type 'cancel' to cancel and return to menu

Enter step 2. (type 'done' if finished with method and don't include the '|' character in your steps):

---> done

End of test case

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

## Test Case 41

### Before

Code:

A screen shot of a computer code

Description automatically generated

Output:

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 41: Testing the updateRecipeChoice method for different types of data to ensure it works and is error handled for updating and managing recipes

Type -1 to cancel and return to menu

All recipes are as follows:

1: Tomato Pasta

2: Beans on Toast

3: Chicken Sandwich

4: Dirty Fries

5: Chicken Caesar Salad

6: Shepherds Pie

7: Chicken Curry

8: Beef Burger

9: Mac'n'Cheese

10: Chilli Concarne

Which ingredient would you like to update?

---> 11

Type -1 to cancel and return to menu

1. Name

2. Method

3. Portions

4. Ingredients

5. Ingredient Quantity

6. Add new ingredient

7. Remove ingredient

Which recipe attribute do you want to update?:

---> 2

Code crashes after this

### After

Code:

A screen shot of a computer code

Description automatically generated

Output:

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test case 41: Testing the updateRecipeChoice method for different types of data to ensure it works and is error handled for updating and managing recipes

Type -1 to cancel and return to menu

All recipes are as follows:

1: Tomato Pasta

2: Beans on Toast

3: Chicken Sandwich

4: Dirty Fries

5: Chicken Caesar Salad

6: Shepherds Pie

7: Chicken Curry

8: Beef Burger

9: Mac'n'Cheese

10: Chilli Concarne

Which ingredient would you like to update?

---> 11

Type -1 to cancel and return to menu

All recipes are as follows:

1: Tomato Pasta

2: Beans on Toast

3: Chicken Sandwich

4: Dirty Fries

5: Chicken Caesar Salad

6: Shepherds Pie

7: Chicken Curry

8: Beef Burger

9: Mac'n'Cheese

10: Chilli Concarne

Which ingredient would you like to update?

---> 10

Type -1 to cancel and return to menu

1. Name

2. Method

3. Portions

4. Ingredients

5. Ingredient Quantity

6. Add new ingredient

7. Remove ingredient

Which recipe attribute do you want to update?:

--->

Output could then continue as normal

# ChatGPT Uses (3.5)

Only used effectively for auto generation of code for ingredient images in part 03 with the console:

A screen shot of a computer program

Description automatically generated

A screen shot of a computer program

Description automatically generated