Team members:
OLIVIA JULIANI JOHANSEN (SINGAPORE)
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28/8/20

TODO: Decide project direction, target user profile, and problem addressed
Submission: Submit your product name, target user profile, the value proposition, and the public link to your collaborative project notes via TEAMMATES.

1. Direction chosen: direction 2 (morph)
2. Ideas:
    - Location info (3d globe): travel enthusiasts
    - Anki cards (flashcards): a students88
    - Movie tracker (keep track of upcoming movies and locations?): movie enthusiasts, https://github.com/hadley/data-movies
    - Diet planner
    - Finance planner: people who want to save money
3. Idea chosen: diet planner
4. Todo this week:
    a. Product name: Wishful Shrinking
    b. Target user: busy people who want to eat healthy > busy office workers > busy office workers who use computers frequently > office directors
    c. Value proposition:
        i. Problem: Busy office workers tend to be too busy to manage their diet or cook healthy food.
        ii. Wishful shrinking will facilitate a healthier diet by:
            1. Providing fast access to healthy recipes anytime
            2. Getting recipes that only use ingredients currently on hand
        iii. Optimisation towards target user: filter recipes by cooking time and whether it can be pre-cooked then heated up to account for the busy lifestyle of an office worker
5. Features:
    a. Add ingredients in the fridge (no need quantity)
    b. Delete ingredients from the fridge
    c. Compare ingredient with fridge
    d. Store recipes
    e. Edit recipes (add/ delete ingredients)
    f. Delete recipes
    g. Search recipes by ingredients/ calories (if have)/ cooking time

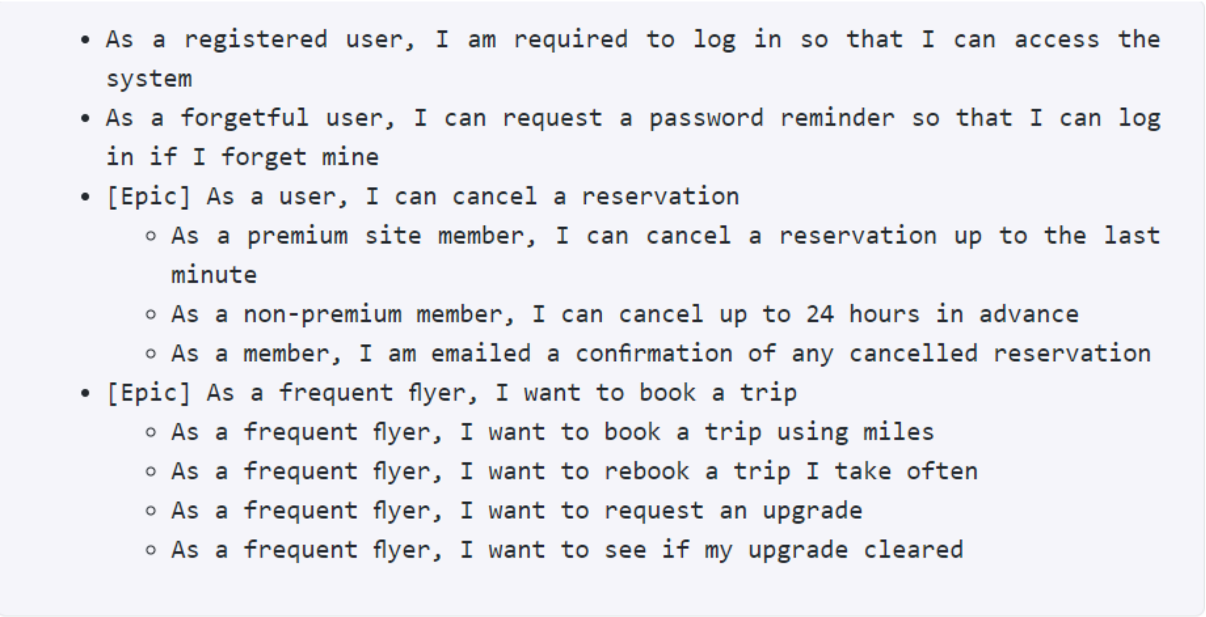
h. Discover healthy recipes or recipes that use user’s ingredients
i. Keep track of food eaten (like calories & macros)
j. Create diet plans
k. Add recipes to diet plan/ meal plan
l. Find the user’s input diet plan
m. Filter recipes by cooking time
n. Tag recipes with tags such as pre-cook or heat up

6. Tech stack:
    a. GUI: JavaFX
    b. Dependency management + build tool: Gradle

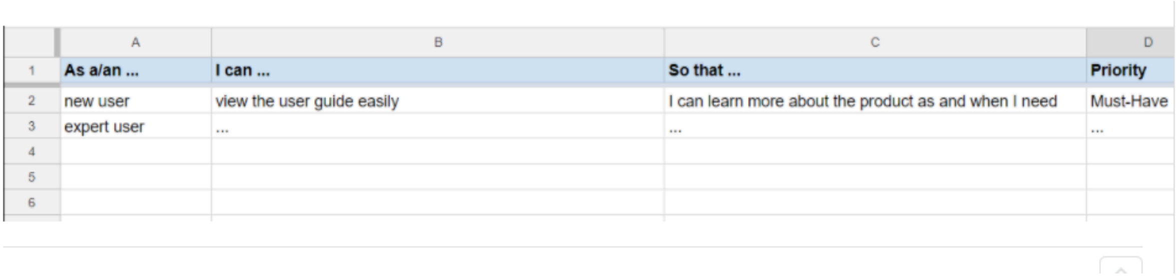
4/9/20

TODO: Get together with your team members and brainstorm for user stories for the product.
Aim to create at least 30 user stories. Include all 'obvious' ones you can think of but also look for 'non-obvious' ones that you think are likely to be missed by other competing products.

1. User stories format and examples:



```
• As a registered user, I am required to log in so that I can access the
  system
• As a forgetful user, I can request a password reminder so that I can log
  in if I forget mine
• [Epic] As a user, I can cancel a reservation
    ◦ As a premium site member, I can cancel a reservation up to the last
      minute
    ◦ As a non-premium member, I can cancel up to 24 hours in advance
    ◦ As a member, I am emailed a confirmation of any cancelled reservation
• [Epic] As a frequent flyer, I want to book a trip
    ◦ As a frequent flyer, I want to book a trip using miles
    ◦ As a frequent flyer, I want to rebook a trip I take often
    ◦ As a frequent flyer, I want to request an upgrade
    ◦ As a frequent flyer, I want to see if my upgrade cleared
```



	A	B	C	D
1	**As a/an ...**	**I can ...**	**So that ...**	**Priority**
2	new user	view the user guide easily	I can learn more about the product as and when I need	Must-Have
3	expert user	...	...	...
4				
5				
6				

- User story format: As a {user type/role} I can {function/feature} so that {benefit}
    1. As a student, I can download files uploaded by lecturers, so that I can get my own copy of the files
    2. As a lecturer, I can create discussion forums, so that students can discuss things online
    3. As a tutor, I can print attendance sheets, so that I can take attendance during the class

2. Link to user stories sheet (user stories + v1,2)
https://docs.google.com/spreadsheets/d/10fz5TJlJGBZGDWyJetlnE5CZW1piuedl1B0egFo-pYg/edit?usp=sharing

3. Notes:
    a. Add n/John Doe p/98765432 e/johnd@example.com a/John street, block 123, #01-01
    b. recipes + fridge
    c. Add /f /r
    d. Delete /f /r -t --amount/-a
    e. List
    f. Search
    g. Slash higher, dash lower

4. Feature list (v1.2):

Feature	**Command**
Add ingredient to the fridge	addF i/<Ingredients> , e.g addF i/banana, green peas, salmon fish
Add recipe	addR n/<recipe title> i/<ingredient, ingredient..> e.g addR n/Garden Salad i/lettuce, carrots, olive oil
Edit ingredient in fridge	editF <ingredient index> e.g editF 3
Edit recipe	editR <recipe index> e.g editR 4
Delete recipe	deleteR <recipe index> e.g deleteR 1
Delete ingredient from fridge	deleteF <ingredient index> e.g deleteF 1
List fridge’s ingredients	fridge
List recipes and their ingredients	recipes
Search ingredient in the fridge	searchF <word> e.g searchF banana
Search recipe	searchR n/<word> e.g searchR n/salad
Calorie tracker	eatR <recipe index> e.g eatR 1
Table of Commands	help

11/09/2020

TODO: Draft the UG, product design, project repo, codebase

1. User guide:
   a. https://docs.google.com/document/d/11EvGg0Z5MeDtY9SI9Yn-0ndiTY7DqotonSLUdrIX3kg/edit

18/9/20

Target user profile:

- has a need to better manage diet
- has personal recipes
- prefer desktop apps over other types
- can type fast
- prefers typing to mouse interactions
- is reasonably comfortable using CLI apps

Value proposition: manage diet better than a typical mouse/GUI driven app

22/9/20

Buffer - Sunday 23:59

Basic UML diagram

2/10/20

Todo:

1. Test (Hieu)
2. Update recipe ingredientstring to ingredient arraylist (Hieu)
3. Add calorie field to recipe (Ty)
4. Show calorie counter (from eatR)
   a. Calculate the calorie (Ty)
   b. List all the ate recipe + total calorie?(Ty)
   c. Delete recipe ate (Caitlin)
5. Add fields to recipe: content (instr + recipeImage)(JQ/Hieu)
   a. Change recipe commands- add, list recipe

      addR n/ i/name-quantity, name-quantity instr/ img/

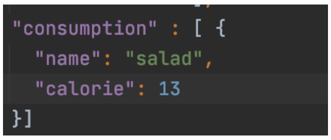
6. Add quantity to ingredient (optional)(Olivia)
   a. Change fridge commands - add, list ingredient
7. Add sample recipe(Olivia)
8. Update sample recipe data (Olivia)
9. Redo package
10. Update UI(Hieu)
11. Update UI for listing consumption(Ty)
12. Update UI for listing ingredient(Caitlin)

V1.3

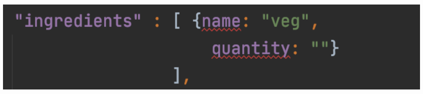
13. Add tags to recipe (caitlin) (done)

Remember to specify in user guide cases we do not consider. For example, adding an ingredient into a recipe whose name is separated by a comma (eg white, cabbage), a dash (eg white-cabbage) or another flag (eg white c/cabbage)

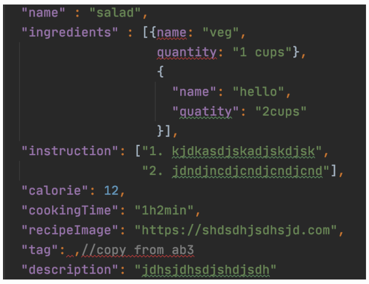
addR n/salad i/veg-1cups c/120 d/1h2min s/add egg s/add veg p/http: t/healty



```
"consumption" : [ {
  "name": "salad",
  "calorie": 13
}]
```



```
"ingredients" : [ {name: "veg",
                   quantity: ""}
                ],
```

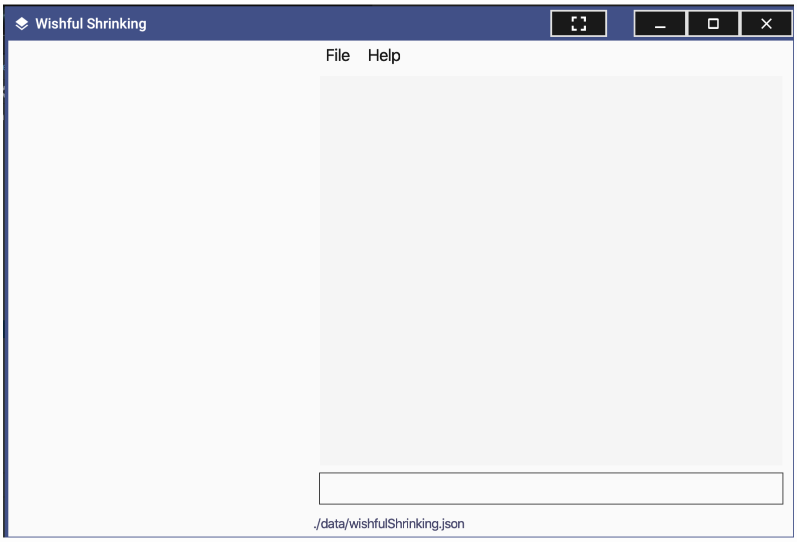


```
"name" : "salad",
"ingredients" : [{name: "veg",
                  quantity: "1 cups"},
                  {
                    "name": "hello",
                    "quatity": "2cups"
                  }],
"instruction": ["1. kjdkasdjskadjskdjsk",
                "2. jdndjncdjcndjcndjcnd"],
"calorie": 12,
"cookingTime": "1h2min",
"recipeImage": "https://shdsdhjsdhsjd.com",
"tag": ,//copy from ab3
"description": "jdhsjdhsdjshdjsdh"
```

11/10/20

V1.2 features demo (screenshots)

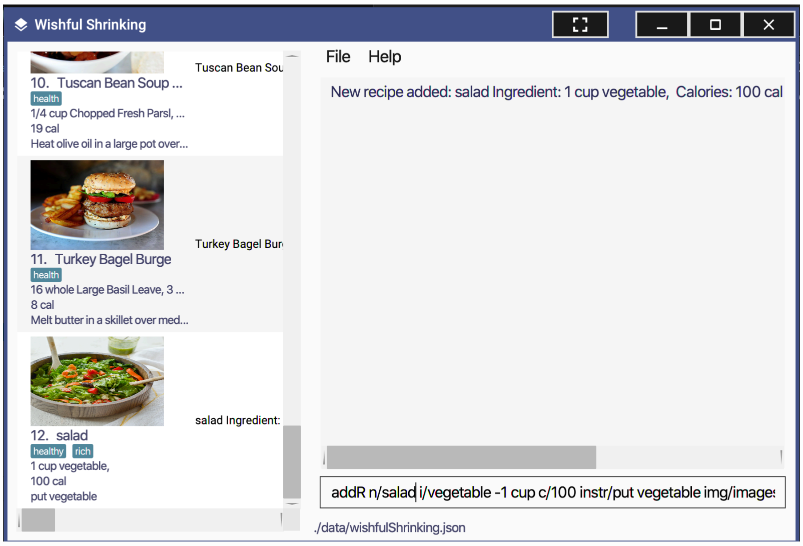
Screenshots



Features to screenshot

1. Recipe

a. Add recipe (addR n/salad i/vegetable -1 cup c/100 instr/put vegetable img/images/healthy1.jpg t/rich t/healthy)



Tuscan Bean Sou

10. Tuscan Bean Soup ...
health
1/4 cup Chopped Fresh Parsl, ...
19 cal
Heat olive oil in a large pot over...

Turkey Bagel Bur

11. Turkey Bagel Burge
health
16 whole Large Basil Leave, 3 ...
8 cal
Melt butter in a skillet over med...

salad Ingredient:

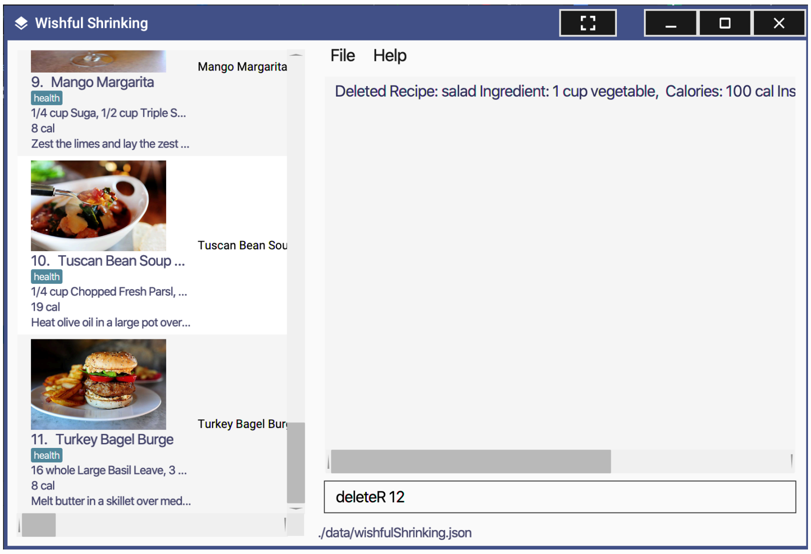
12. salad
healthy rich
1 cup vegetable,
100 cal
put vegetable

New recipe added: salad Ingredient: 1 cup vegetable, Calories: 100 cal

```
addR n/salad i/vegetable -1 cup c/100 instr/put vegetable img/images
```

./data/wishfulShrinking.json

b. Delete recipe (deleteR 12)



Mango Margarita

9. Mango Margarita
health
1/4 cup Suga, 1/2 cup Triple S...
8 cal
Zest the limes and lay the zest ...

Tuscan Bean Sou

10. Tuscan Bean Soup ...
health rich
1/4 cup Chopped Fresh Parsl, ...
19 cal
Heat olive oil in a large pot over...

Turkey Bagel Bur

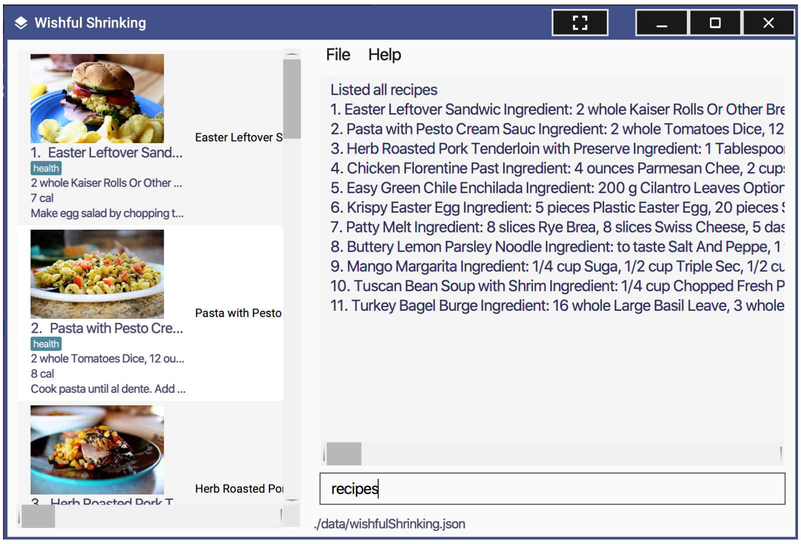
11. Turkey Bagel Burge
health
16 whole Large Basil Leave, 3 ...
8 cal
Melt butter in a skillet over med...

Deleted Recipe: salad Ingredient: 1 cup vegetable, Calories: 100 cal Ins

```
deleteR 12
```

./data/wishfulShrinking.json

c. List recipes (recipes)



Easter Leftover S

1. Easter Leftover Sand...
health
2 whole Kaiser Rolls Or Other ...
7 cal
Make egg salad by chopping t...

Pasta with Pesto

2. Pasta with Pesto Cre...
health
2 whole Tomatoes Dice, 12 ou...
8 cal
Cook pasta until al dente. Add ...

Herb Roasted Po

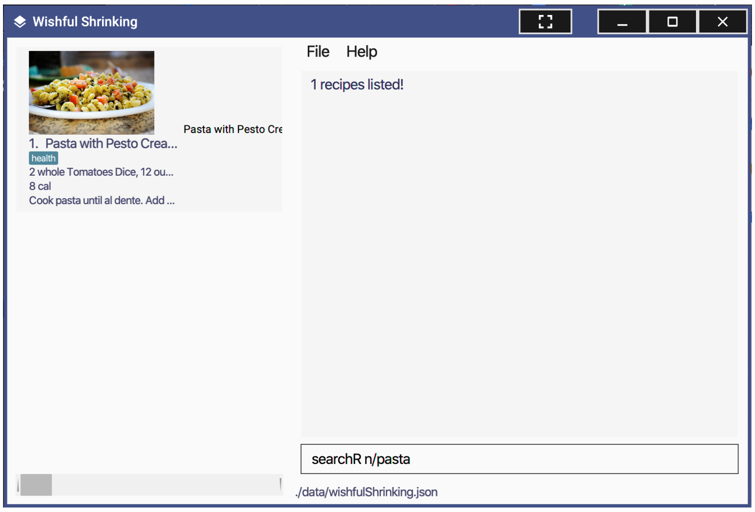
3. Herb Roasted Pork T

Listed all recipes
1. Easter Leftover Sandwic Ingredient: 2 whole Kaiser Rolls Or Other Bre
2. Pasta with Pesto Cream Sauc Ingredient: 2 whole Tomatoes Dice, 12
3. Herb Roasted Pork Tenderloin with Preserve Ingredient: 1 Tablespoo
4. Chicken Florentine Past Ingredient: 4 ounces Parmesan Chee, 2 cup
5. Easy Green Chile Enchilada Ingredient: 200 g Cilantro Leaves Optio
6. Krispy Easter Egg Ingredient: 5 pieces Plastic Easter Egg, 20 pieces
7. Patty Melt Ingredient: 8 slices Rye Brea, 8 slices Swiss Cheese, 5 das
8. Buttery Lemon Parsley Noodle Ingredient: to taste Salt And Peppe, 1
9. Mango Margarita Ingredient: 1/4 cup Suga, 1/2 cup Triple Sec, 1/2 cu
10. Tuscan Bean Soup with Shrim Ingredient: 1/4 cup Chopped Fresh P
11. Turkey Bagel Burge Ingredient: 16 whole Large Basil Leave, 3 whole

```
recipes
```

./data/wishfulShrinking.json

d. Search by recipe name (searchR n/pasta)



Pasta with Pesto Cre

1. Pasta with Pesto Crea...

health

2 whole Tomatoes Dice, 12 ou...

8 cal

Cook pasta until al dente. Add ...

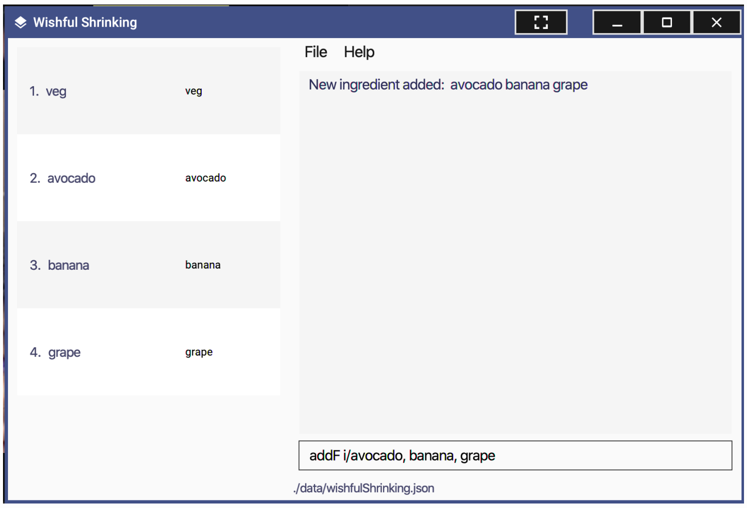
1 recipes listed!

searchR n/pasta

./data/wishfulShrinking.json

2. Fridge

a. Add ingredient to fridge (addF i/avocado, banana, grape)



1. veg veg

2. avocado avocado

3. banana banana

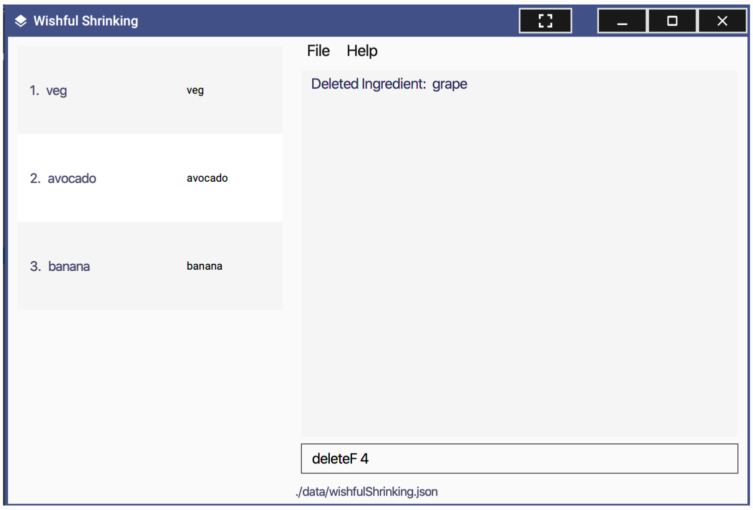
4. grape grape

New ingredient added: avocado banana grape

addF i/avocado, banana, grape

./data/wishfulShrinking.json

b. Delete ingredient from fridge (deleteF 4)



1. veg veg

2. avocado avocado

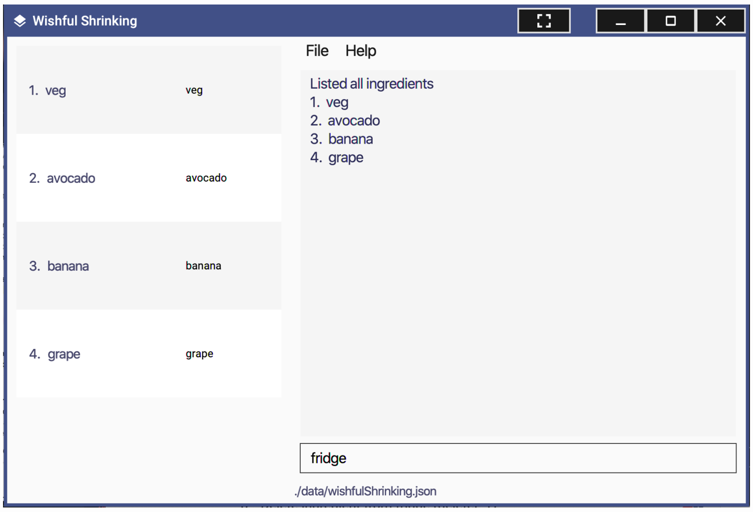
3. banana banana

Deleted Ingredient: grape

deleteF 4

./data/wishfulShrinking.json

c. List ingredients in fridge (fridge)



1. veg veg

2. avocado avocado

3. banana banana

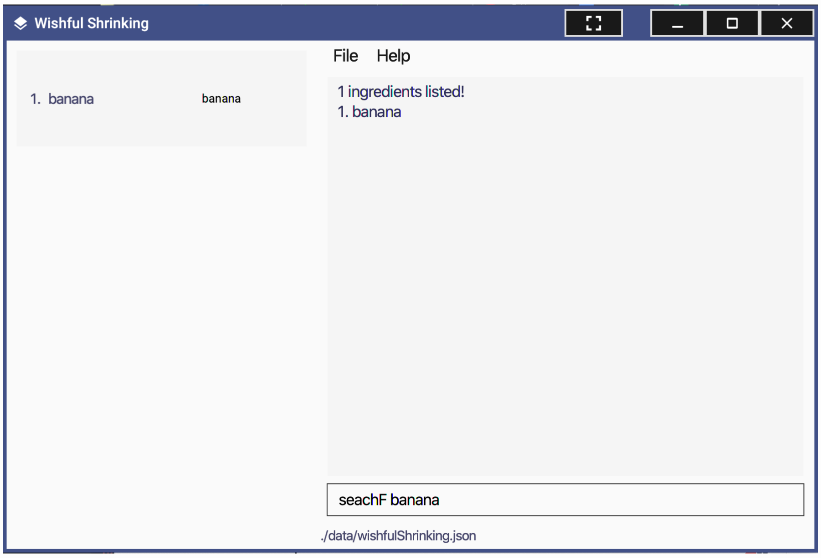
4. grape grape

Listed all ingredients
1. veg
2. avocado
3. banana
4. grape

fridge

./data/wishfulShrinking.json

d. Search for ingredient in fridge (searchF banana)



1. banana banana

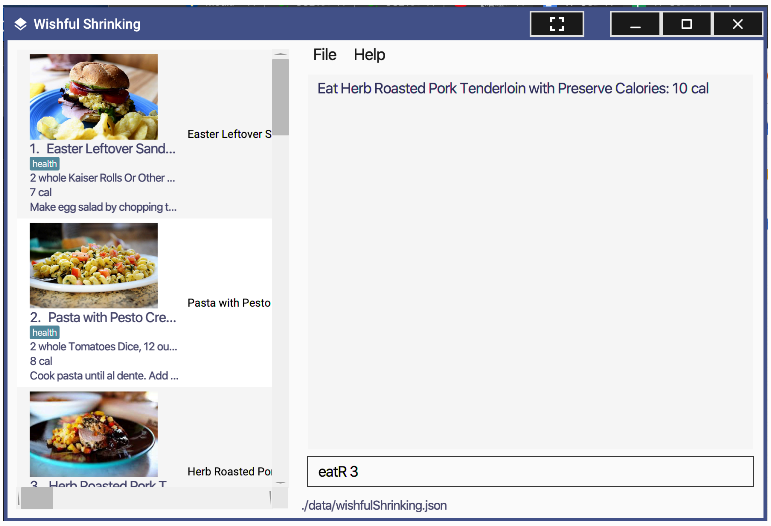
1 ingredients listed!
1. banana

seachF banana

./data/wishfulShrinking.json

3. Consumption

a. Add calories eaten (eatR 1)



1. Easter Leftover Sand...
health
2 whole Kaiser Rolls Or Other ...
7 cal
Make egg salad by chopping t...
Easter Leftover S

2. Pasta with Pesto Cre...
health
2 whole Tomatoes Dice, 12 ou...
8 cal
Cook pasta until al dente. Add ...
Pasta with Pesto

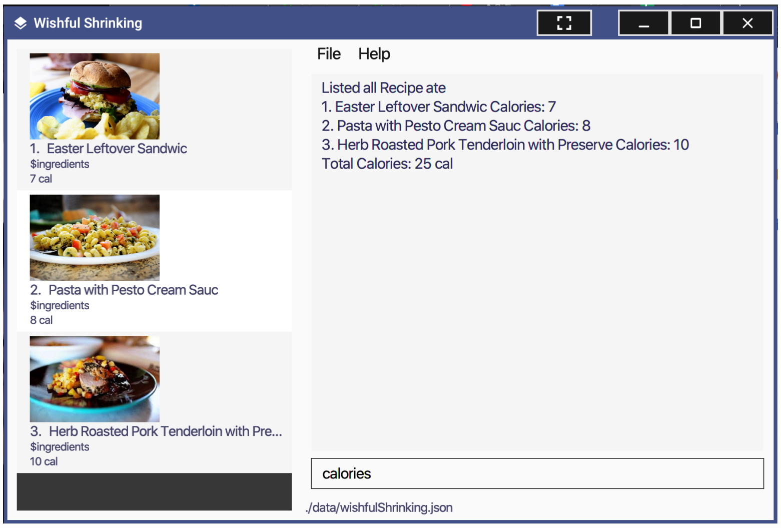
3. Herb Roasted Pork T
Herb Roasted Por

Eat Herb Roasted Pork Tenderloin with Preserve Calories: 10 cal

eatR 3

./data/wishfulShrinking.json

b. List consumption (calories)



1. Easter Leftover Sandwic
$ingredients
7 cal

2. Pasta with Pesto Cream Sauc
$ingredients
8 cal

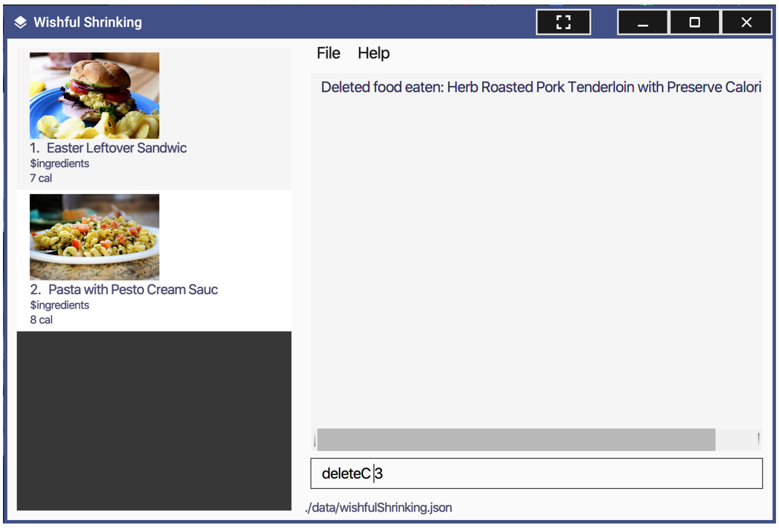
3. Herb Roasted Pork Tenderloin with Pre...
$ingredients
10 cal

Listed all Recipe ate
1. Easter Leftover Sandwic Calories: 7
2. Pasta with Pesto Cream Sauc Calories: 8
3. Herb Roasted Pork Tenderloin with Preserve Calories: 10
Total Calories: 25 cal

calories

./data/wishfulShrinking.json

c. Delete calories eaten (deleteC 1)



1. Easter Leftover Sandwic
$ingredients
7 cal

2. Pasta with Pesto Cream Sauc
$ingredients
8 cal

Deleted food eaten: Herb Roasted Pork Tenderloin with Preserve Calori

deleteC 3

./data/wishfulShrinking.json

16/10/20

1. Postmortem and Adjust Progress Rigor
    a. What was good
        i. Speed was ok
        ii. Issues were detailed
        iii. Communication vibrant
    b. What can be improved
        i. Look and comment/approve pull requests within 10 hrs
        ii. Do testing when implementing new features so won't stack up
2. For v1.3:
    1. Edit ingredient (olivia)
        a. Ingredient has new method stringify
        b. Command editF ...
    2. Edit recipe (olivia)
        a. Recipe has new method stringify
        b. Command editR ...
    3. Search recipe by tag(s) (cait)
        a. searchR t/…
    4. Search by ingredient(s) (cait)
        a. searchR i/…
    5. Recommend recipes from fridge ingredients (compare fridge and recipe ingredients) (cait, ty)
        a. recommend
    6. Add cooking time field to recipe, filter by time (1.4?)
    7. Update ui (hieu)
        a. Expand text area as user types
        b. When a recipe is selected open full recipe information
        c. Change default page upon run
        d. Image
            i. if we can do asynchronous loading of the image then Add image to default page
            ii. Add image to full recipe information
    8. Adding recipe image path (hieu)
        a. Local
            i. Type path
            ii. Drag and drop (v1.4?)
            iii. Copy image
        b. Url
            i. Copy and paste url
            ii. Rmb to download image
    9. Redo package (v1.4?)

10. Update tests for ingredient (ty)
    a. Update recipes ~~(ask prof)~~
    b.
11. Update documentation (everyone)
    a. User guide
    b. Developer guide
    c. Readme

23/10/20

1. V1.3b:
    a. Add and check tests (everyone)
        i. Get edit commands (olivia)
        ii. Edit commands (olivia)
    b. Add assertions and logging (everyone)
    c. Refactor code
        i. Remove duplicate predicate file (ingredient) (olivia)
        ii. CommandResult (olivia)
        iii. Fix recipepredicate parent class (duplicate method) (cait)
        iv. UI classes (Card & Panel) (hieu)
    d. Redo packages (ty)
    e. Update ug and update dg (everyone, assigned in 2 and 3)
    f. Fix image field (jq)
    g. Image option (jq)
    h. Update instruction field split by fullstop (jq)
    i. Update ui (scroll bar, black background?) (hieu)
    j. Select command (hieu)
    k. Clear consumption (ty)
    l. Clear fridge (ty/ jq)
    m. Clear recipe (ty/ jq)
2. User guide
    a. Add glossary (olivia)
    b. Add ui picture (cait)
    c. Clearly state target user (olivia)
    d. Edit the picture to show each component of the ui (cait)
    e. Change the picture of viewing help (cait)
    f. Better splitting for each command -> Clear heading fridge related/recipe related… (olivia)
    g. Use more markup (olivia)

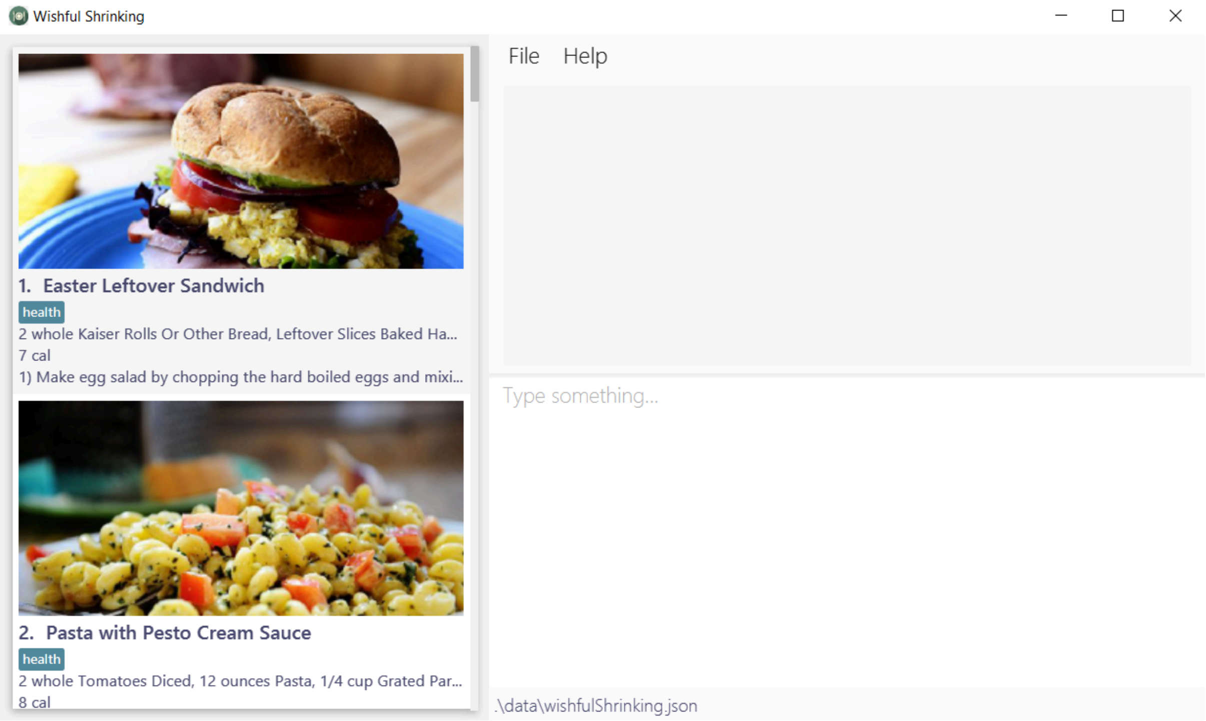
    h. Add edit commands (olivia)
    i. Add select command (hieu)
    j. Add clear command (ty)
    k. Update add recipe - instruction field split by full stop (jq)
    l. Add more info for each command & make phrasing consistent (cait)
        i. Tips: make easier
        ii. Notes: extra info and stuff
        iii. Blue and green
3. Developer guide
    a. Update intro & make it consistent across docs (olivia)
    b. Combine similar implementation (ty, jq)
    c. Use more markup (olivia)
        i. Note
    d. Add testing (ask prof) (ans: no need to add)
    e. A explanation on how logic part related to ui (hieu)
    f. Update diagrams from addressbook to wishfulshrinking (cait)
    g. Update edit seq diagrams to include UI path (olivia)
    h. Update links eg logic.java (cait)
    i. Make sure toc is correct (olivia)
    j. Update user stories (olivia)
    k. Update user cases (everyone)
4. Question
    a. What is testing in development guide
    b. When is ug and dg due
5. (Tues) release jar and demo

-

V1.3 features demo (screenshots) TODO

Screenshots

1. Quick start



1. Easter Leftover Sandwich

health

2 whole Kaiser Rolls Or Other Bread, Leftover Slices Baked Ha...

7 cal

1) Make egg salad by chopping the hard boiled eggs and mixi...

2. Pasta with Pesto Cream Sauce

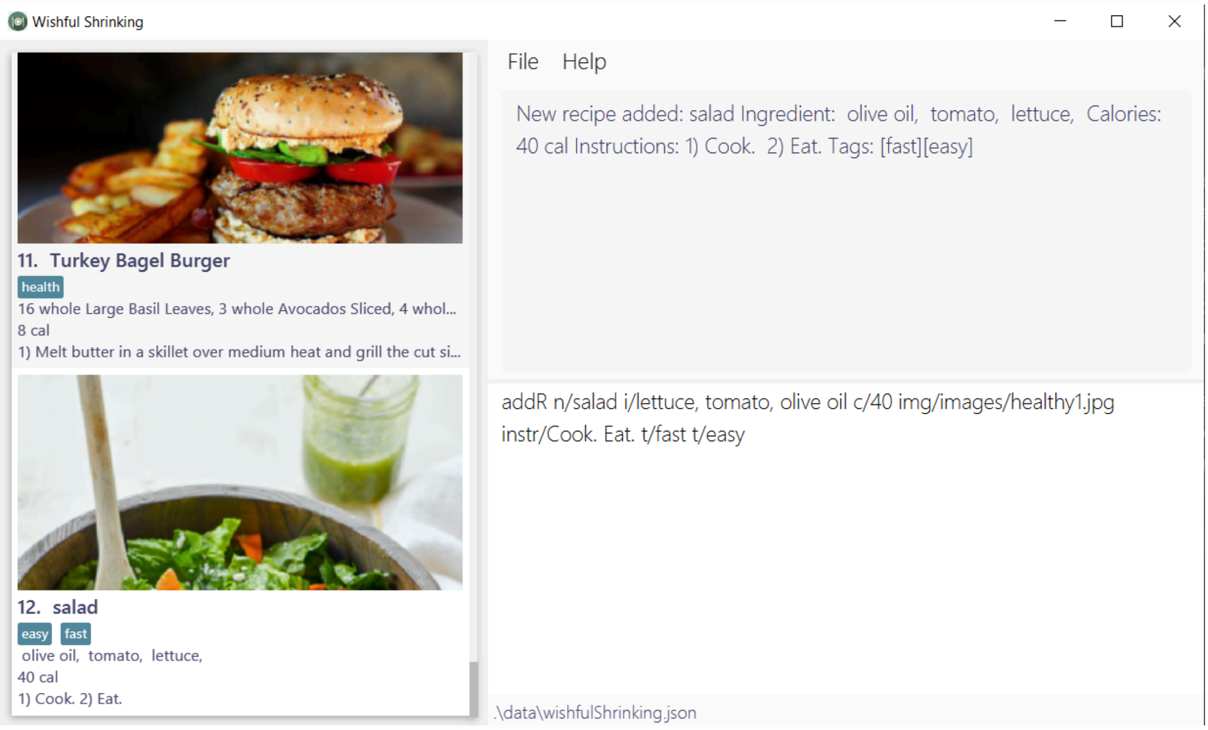
health

2 whole Tomatoes Diced, 12 ounces Pasta, 1/4 cup Grated Par...

8 cal

.\data\wishfulShrinking.json

2. Adding a recipe: addR



New recipe added: salad Ingredient: olive oil, tomato, lettuce, Calories: 40 cal Instructions: 1) Cook. 2) Eat. Tags: [fast][easy]

```
addR n/salad i/lettuce, tomato, olive oil c/40 img/images/healthy1.jpg
instr/Cook. Eat. t/fast t/easy
```

11. Turkey Bagel Burger

health

16 whole Large Basil Leaves, 3 whole Avocados Sliced, 4 whol...

8 cal

1) Melt butter in a skillet over medium heat and grill the cut si...

12. salad

easy fast

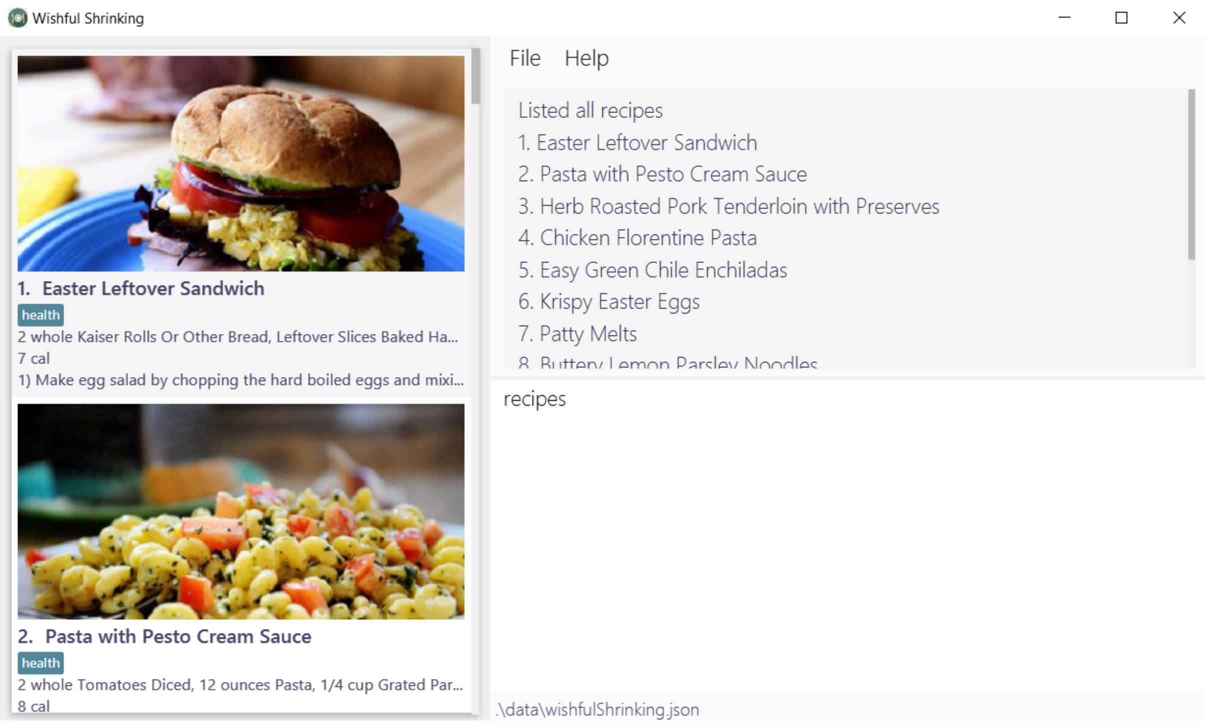
olive oil, tomato, lettuce,

40 cal

1) Cook. 2) Eat.

.\data\wishfulShrinking.json

3. Listing all recipes : recipes



1. Easter Leftover Sandwich
health
2 whole Kaiser Rolls Or Other Bread, Leftover Slices Baked Ha...
7 cal
1) Make egg salad by chopping the hard boiled eggs and mixi...

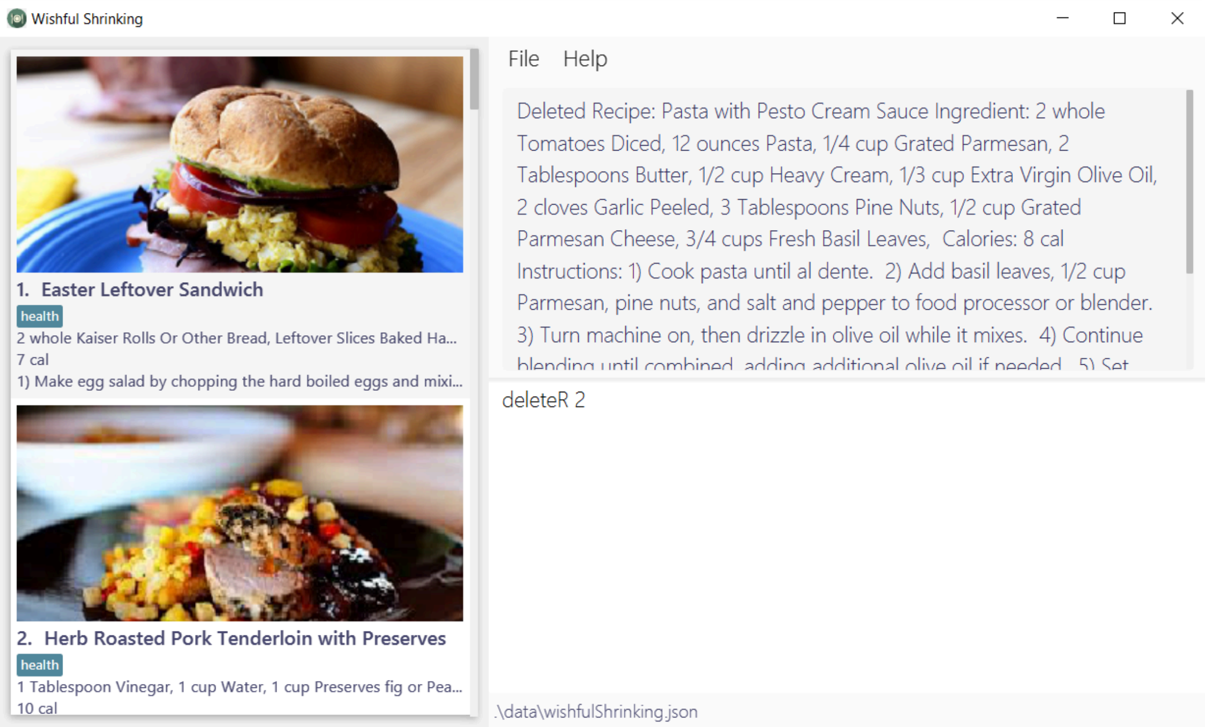
2. Pasta with Pesto Cream Sauce
health
2 whole Tomatoes Diced, 12 ounces Pasta, 1/4 cup Grated Par...
8 cal

```
Listed all recipes
1. Easter Leftover Sandwich
2. Pasta with Pesto Cream Sauce
3. Herb Roasted Pork Tenderloin with Preserves
4. Chicken Florentine Pasta
5. Easy Green Chile Enchiladas
6. Krispy Easter Eggs
7. Patty Melts
8. Buttery Lemon Parsley Noodles
```

```
recipes
```

.\data\wishfulShrinking.json

4. Deleting a recipe : deleteR



1. Easter Leftover Sandwich
health
2 whole Kaiser Rolls Or Other Bread, Leftover Slices Baked Ha...
7 cal
1) Make egg salad by chopping the hard boiled eggs and mixi...

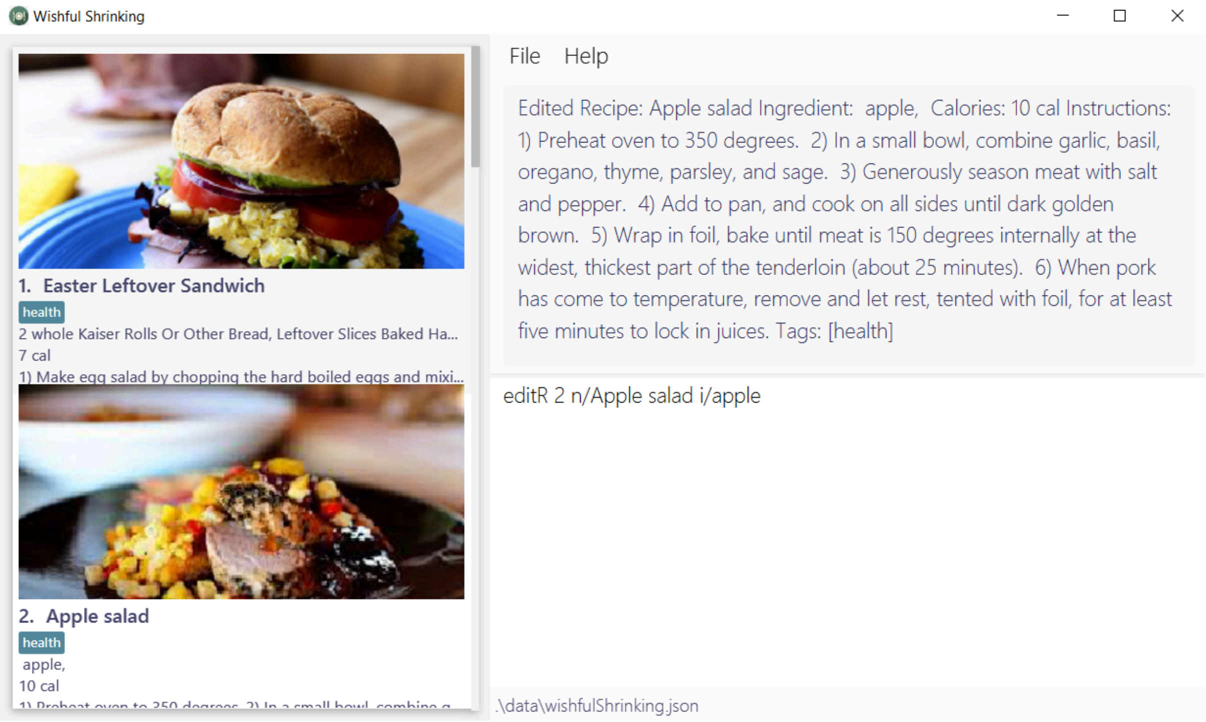
2. Herb Roasted Pork Tenderloin with Preserves
health
1 Tablespoon Vinegar, 1 cup Water, 1 cup Preserves fig or Pea...
10 cal

```
Deleted Recipe: Pasta with Pesto Cream Sauce Ingredient: 2 whole
Tomatoes Diced, 12 ounces Pasta, 1/4 cup Grated Parmesan, 2
Tablespoons Butter, 1/2 cup Heavy Cream, 1/3 cup Extra Virgin Olive Oil,
2 cloves Garlic Peeled, 3 Tablespoons Pine Nuts, 1/2 cup Grated
Parmesan Cheese, 3/4 cups Fresh Basil Leaves,  Calories: 8 cal
Instructions: 1) Cook pasta until al dente.  2) Add basil leaves, 1/2 cup
Parmesan, pine nuts, and salt and pepper to food processor or blender.
3) Turn machine on, then drizzle in olive oil while it mixes.  4) Continue
blending until combined, adding additional olive oil if needed.  5) Set
```

```
deleteR 2
```

.\data\wishfulShrinking.json

5. Editing a recipe: editR



1. Easter Leftover Sandwich

health

2 whole Kaiser Rolls Or Other Bread, Leftover Slices Baked Ha...

7 cal

1) Make egg salad by chopping the hard boiled eggs and mixi...

2. Apple salad

health

apple,

10 cal

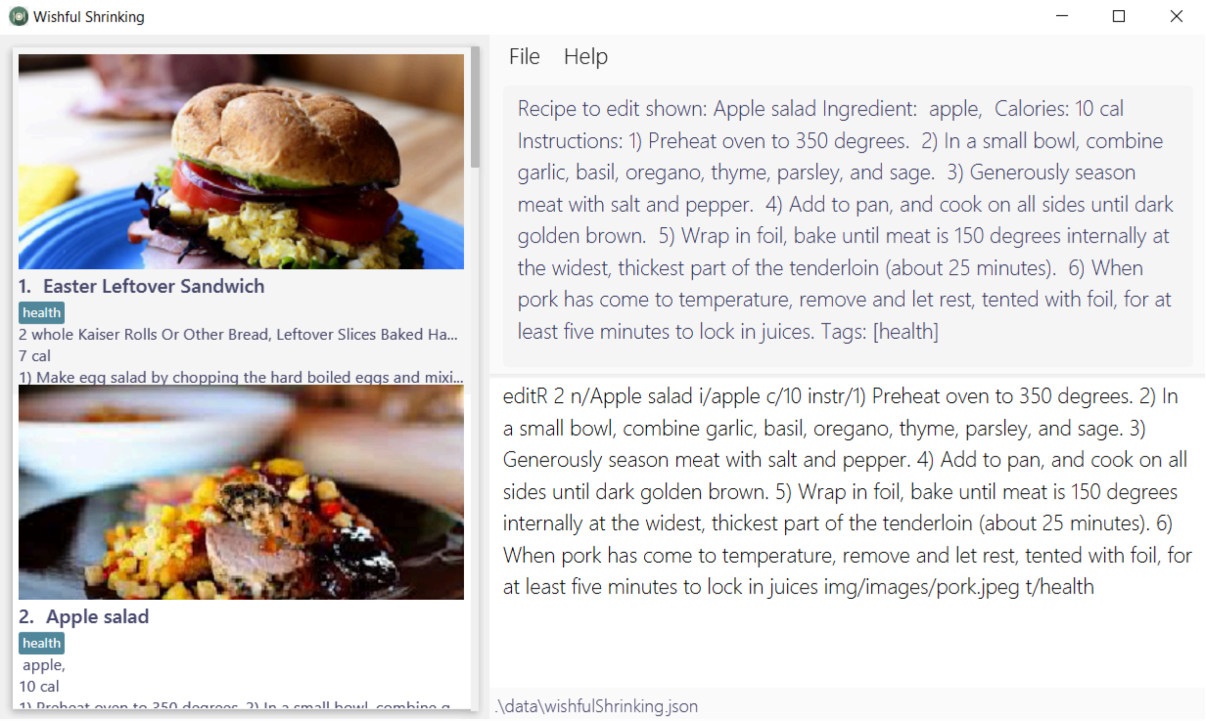
1) Preheat oven to 350 degrees. 2) In a small bowl, combine g...

Edited Recipe: Apple salad Ingredient: apple, Calories: 10 cal Instructions: 1) Preheat oven to 350 degrees. 2) In a small bowl, combine garlic, basil, oregano, thyme, parsley, and sage. 3) Generously season meat with salt and pepper. 4) Add to pan, and cook on all sides until dark golden brown. 5) Wrap in foil, bake until meat is 150 degrees internally at the widest, thickest part of the tenderloin (about 25 minutes). 6) When pork has come to temperature, remove and let rest, tented with foil, for at least five minutes to lock in juices. Tags: [health]

```
editR 2 n/Apple salad i/apple
```

.\data\wishfulShrinking.json

6. Getting a recipe to edit: editR



1. Easter Leftover Sandwich

health

2 whole Kaiser Rolls Or Other Bread, Leftover Slices Baked Ha...

7 cal

1) Make egg salad by chopping the hard boiled eggs and mixi...

2. Apple salad

health

apple,

10 cal

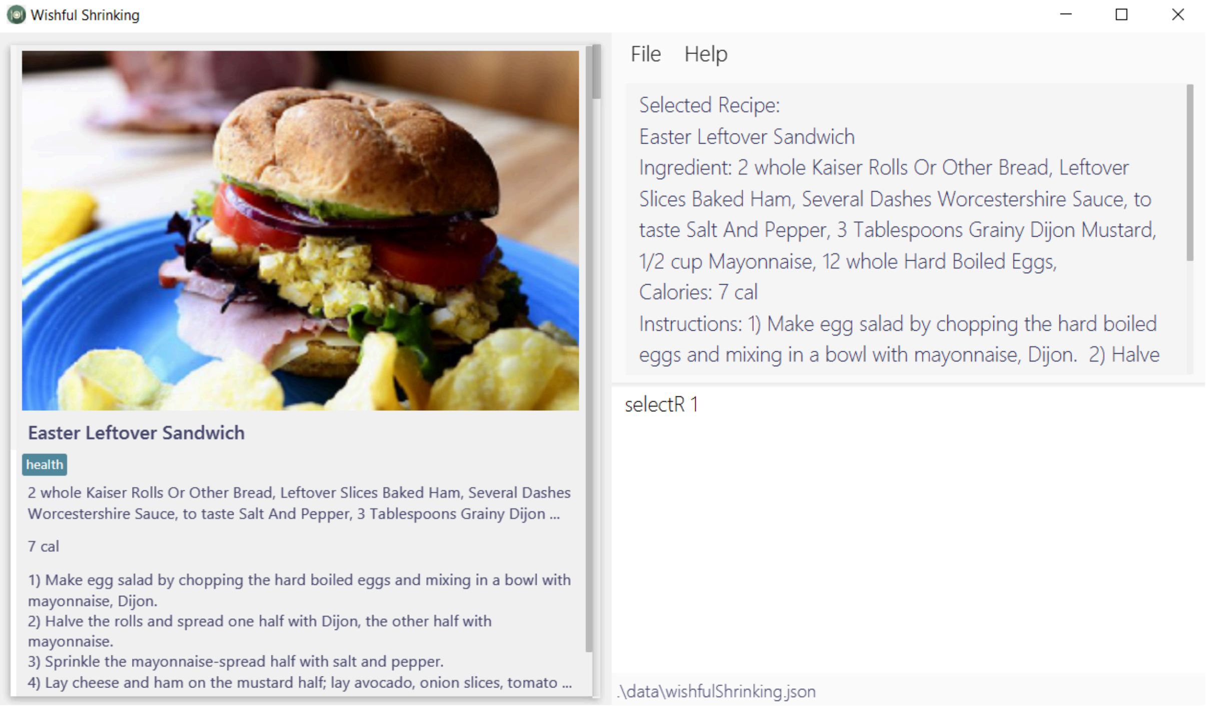
1) Preheat oven to 350 degrees. 2) In a small bowl, combine g...

Recipe to edit shown: Apple salad Ingredient: apple, Calories: 10 cal Instructions: 1) Preheat oven to 350 degrees. 2) In a small bowl, combine garlic, basil, oregano, thyme, parsley, and sage. 3) Generously season meat with salt and pepper. 4) Add to pan, and cook on all sides until dark golden brown. 5) Wrap in foil, bake until meat is 150 degrees internally at the widest, thickest part of the tenderloin (about 25 minutes). 6) When pork has come to temperature, remove and let rest, tented with foil, for at least five minutes to lock in juices. Tags: [health]

```
editR 2 n/Apple salad i/apple c/10 instr/1) Preheat oven to 350 degrees. 2) In a small bowl, combine garlic, basil, oregano, thyme, parsley, and sage. 3) Generously season meat with salt and pepper. 4) Add to pan, and cook on all sides until dark golden brown. 5) Wrap in foil, bake until meat is 150 degrees internally at the widest, thickest part of the tenderloin (about 25 minutes). 6) When pork has come to temperature, remove and let rest, tented with foil, for at least five minutes to lock in juices img/images/pork.jpeg t/health
```

.\data\wishfulShrinking.json

7. Selecting a single recipe : selectR



Easter Leftover Sandwich

health

2 whole Kaiser Rolls Or Other Bread, Leftover Slices Baked Ham, Several Dashes Worcestershire Sauce, to taste Salt And Pepper, 3 Tablespoons Grainy Dijon ...

7 cal

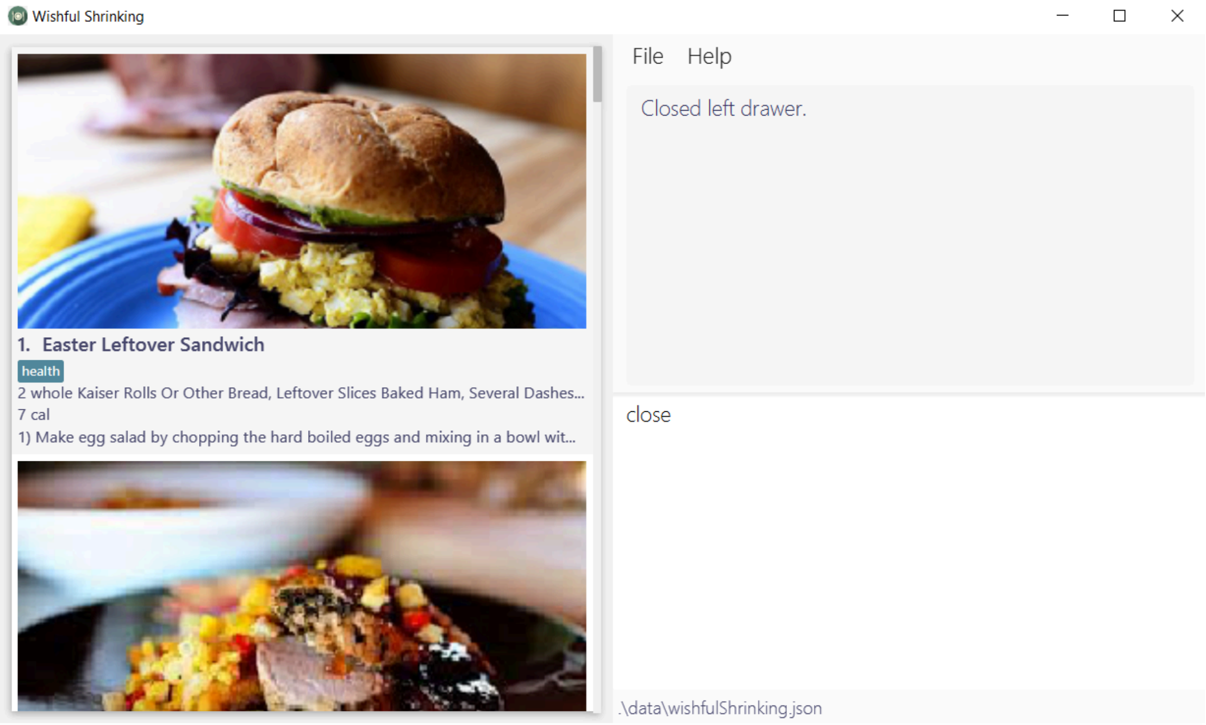
1) Make egg salad by chopping the hard boiled eggs and mixing in a bowl with mayonnaise, Dijon.
2) Halve the rolls and spread one half with Dijon, the other half with mayonnaise.
3) Sprinkle the mayonnaise-spread half with salt and pepper.
4) Lay cheese and ham on the mustard half; lay avocado, onion slices, tomato ...

```
Selected Recipe:
Easter Leftover Sandwich
Ingredient: 2 whole Kaiser Rolls Or Other Bread, Leftover Slices Baked Ham, Several Dashes Worcestershire Sauce, to taste Salt And Pepper, 3 Tablespoons Grainy Dijon Mustard, 1/2 cup Mayonnaise, 12 whole Hard Boiled Eggs,
Calories: 7 cal
Instructions: 1) Make egg salad by chopping the hard boiled eggs and mixing in a bowl with mayonnaise, Dijon.  2) Halve
```

```
selectR 1
```

.\data\wishfulShrinking.json

8. Closing the recipe drawer : close



1. Easter Leftover Sandwich

health

2 whole Kaiser Rolls Or Other Bread, Leftover Slices Baked Ham, Several Dashes...

7 cal

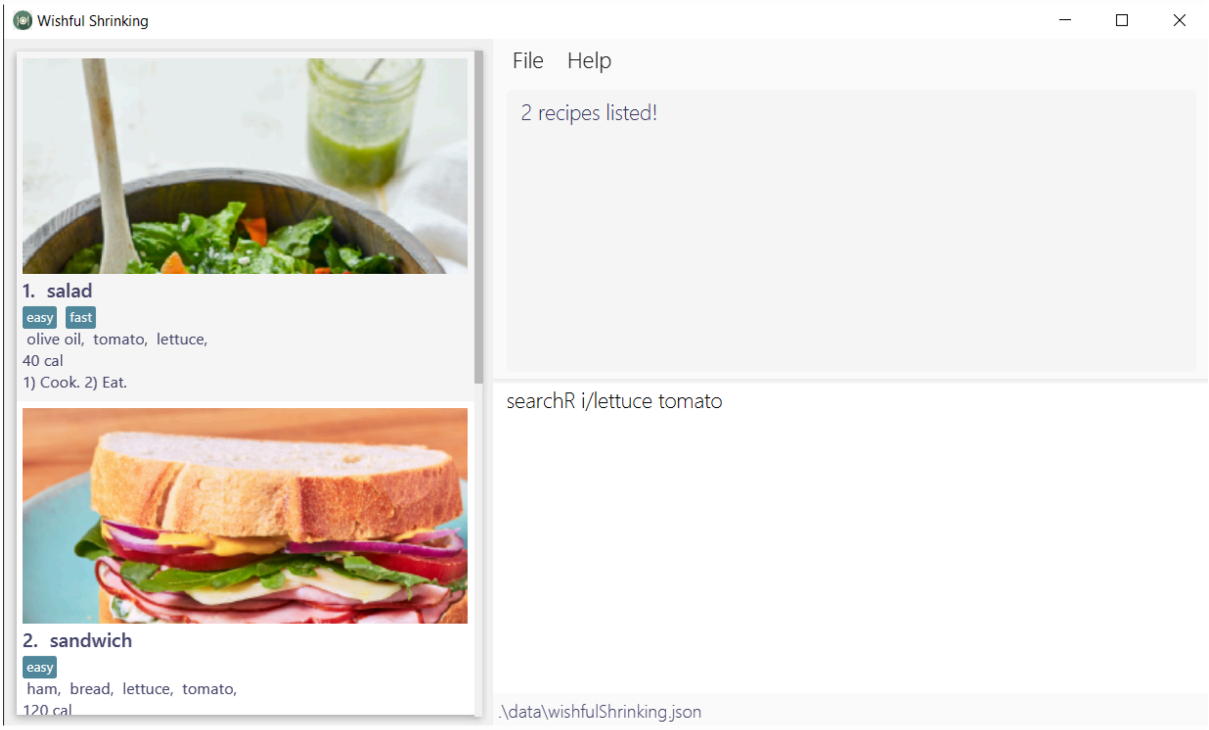
1) Make egg salad by chopping the hard boiled eggs and mixing in a bowl wit...

```
Closed left drawer.
```

```
close
```

.\data\wishfulShrinking.json

9. Searching for a recipe: searchR



1. salad

easy fast

olive oil, tomato, lettuce,

40 cal

1) Cook. 2) Eat.

2. sandwich

easy

ham, bread, lettuce, tomato,

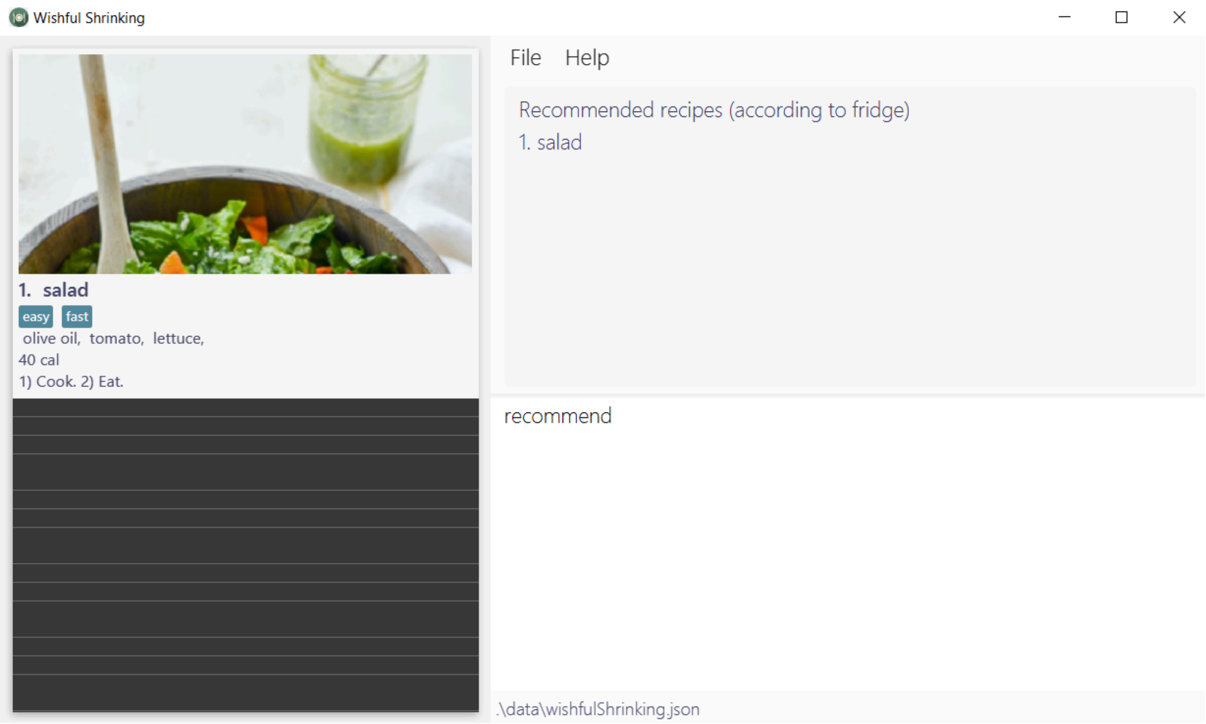
120 cal

2 recipes listed!

searchR i/lettuce tomato

.\data\wishfulShrinking.json

10. Recommending recipes : recommend



1. salad

easy fast

olive oil, tomato, lettuce,

40 cal

1) Cook. 2) Eat.

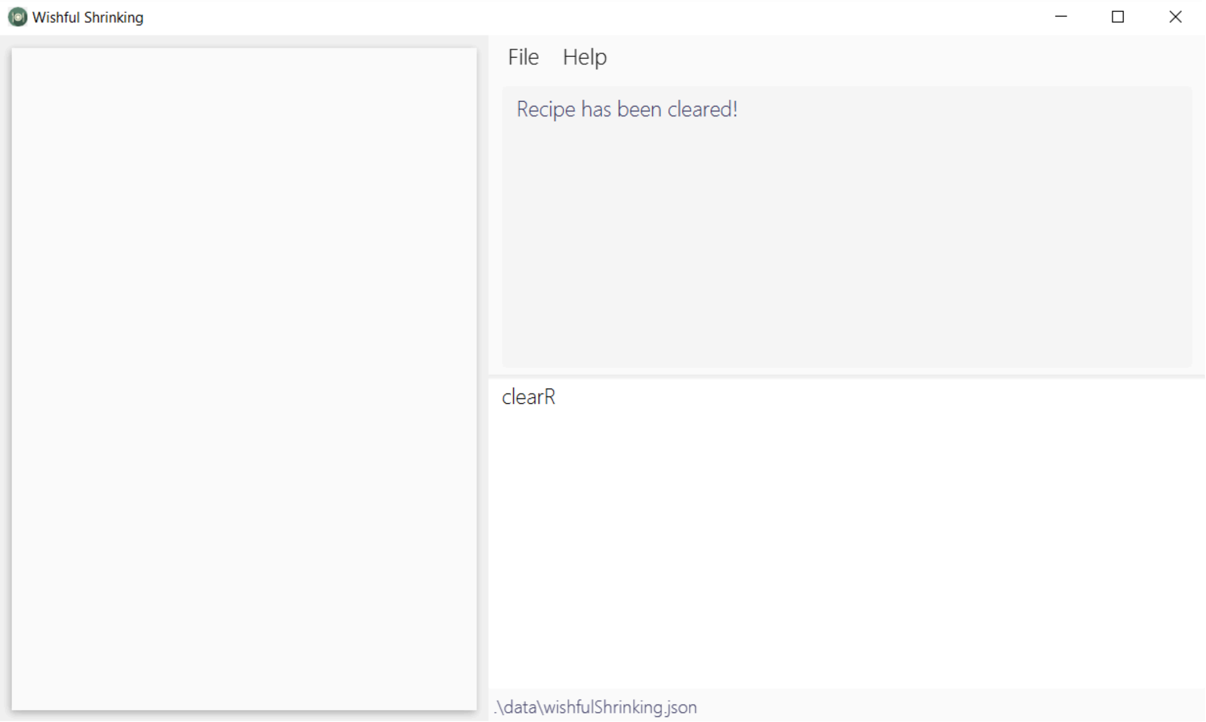
Recommended recipes (according to fridge)

1. salad

recommend

.\data\wishfulShrinking.json

11. Clearing all recipes : clearR

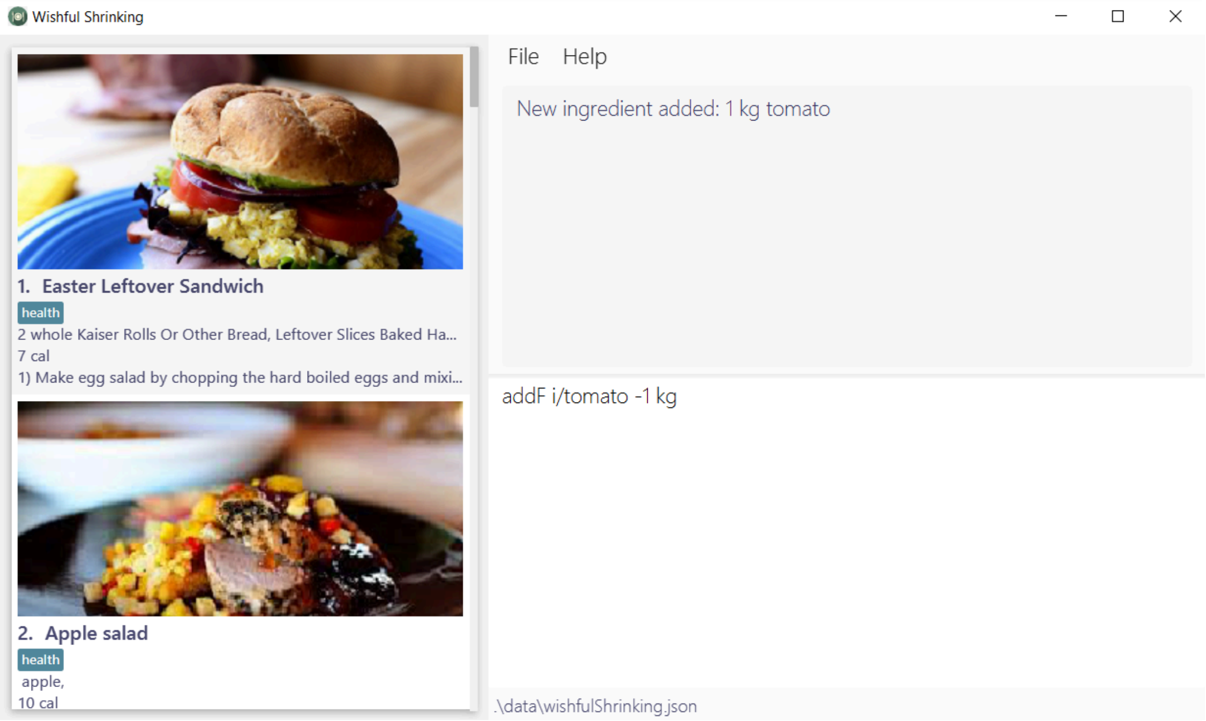


Recipe has been cleared!

clearR

.\data\wishfulShrinking.json

12. Adding an ingredient: addF



1. Easter Leftover Sandwich

health

2 whole Kaiser Rolls Or Other Bread, Leftover Slices Baked Ha...

7 cal

1) Make egg salad by chopping the hard boiled eggs and mixi...

2. Apple salad

health

apple,

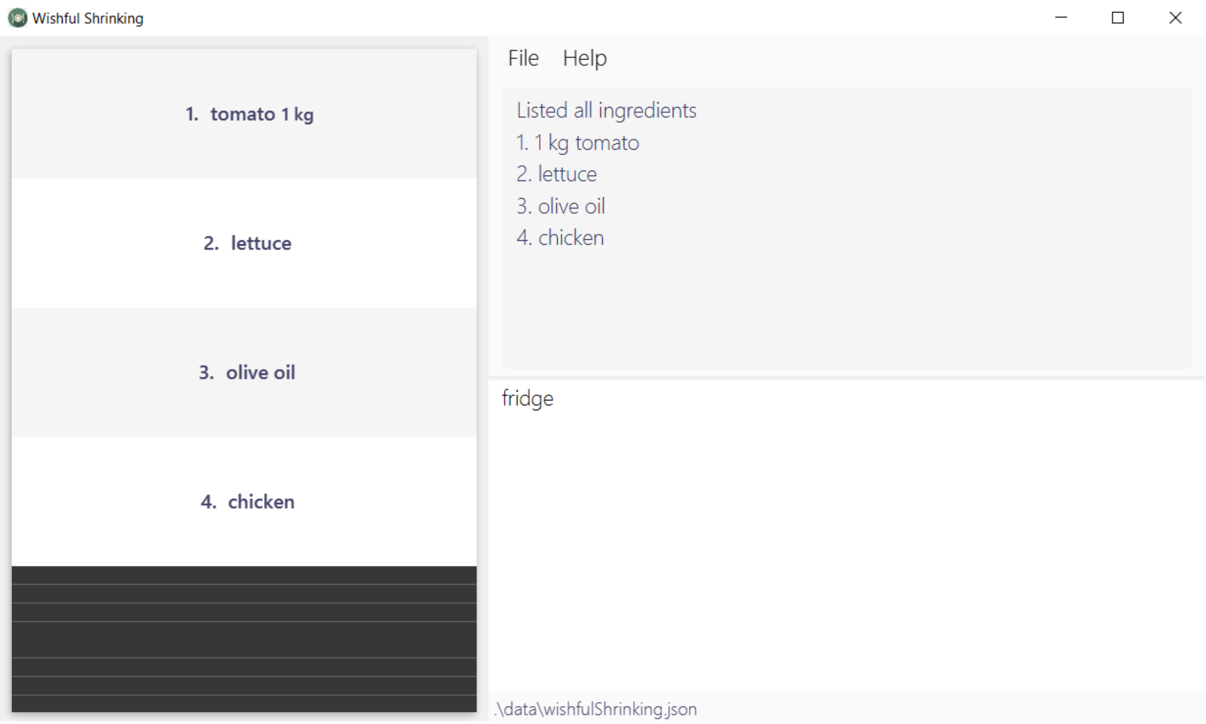
10 cal

New ingredient added: 1 kg tomato

addF i/tomato -1 kg

.\data\wishfulShrinking.json

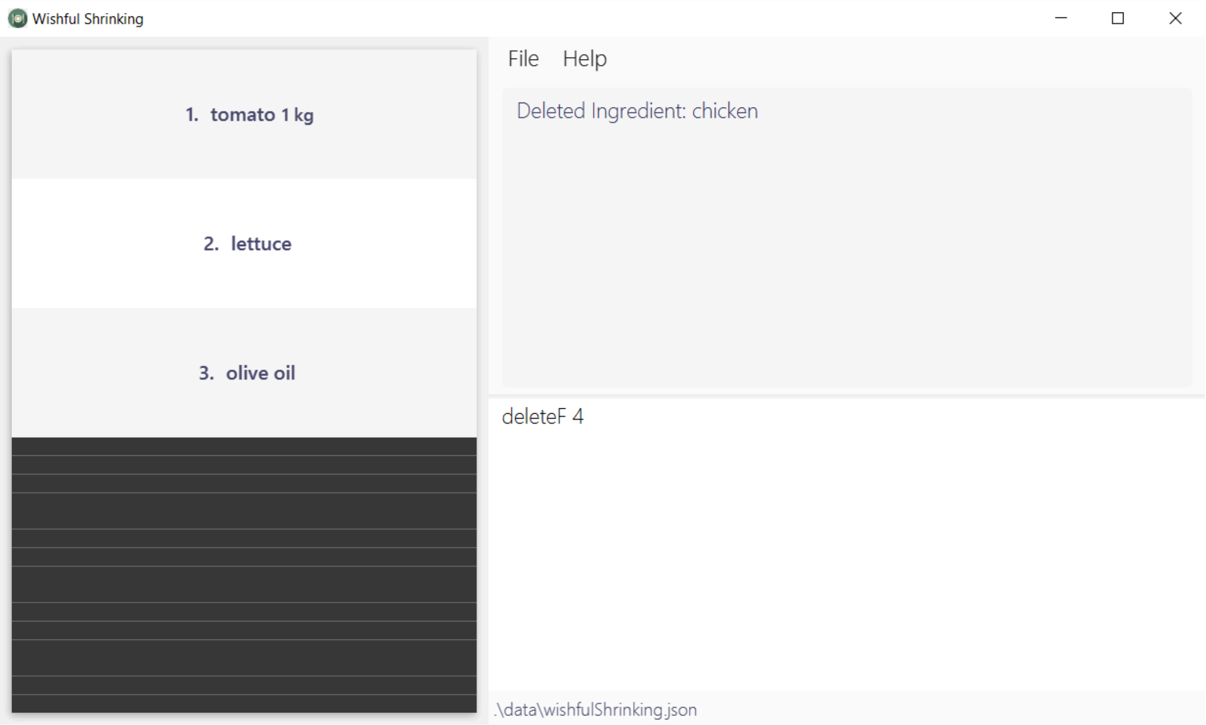
13. Listing all ingredients : fridge



```
Listed all ingredients
1. 1 kg tomato
2. lettuce
3. olive oil
4. chicken
```

```
fridge
```

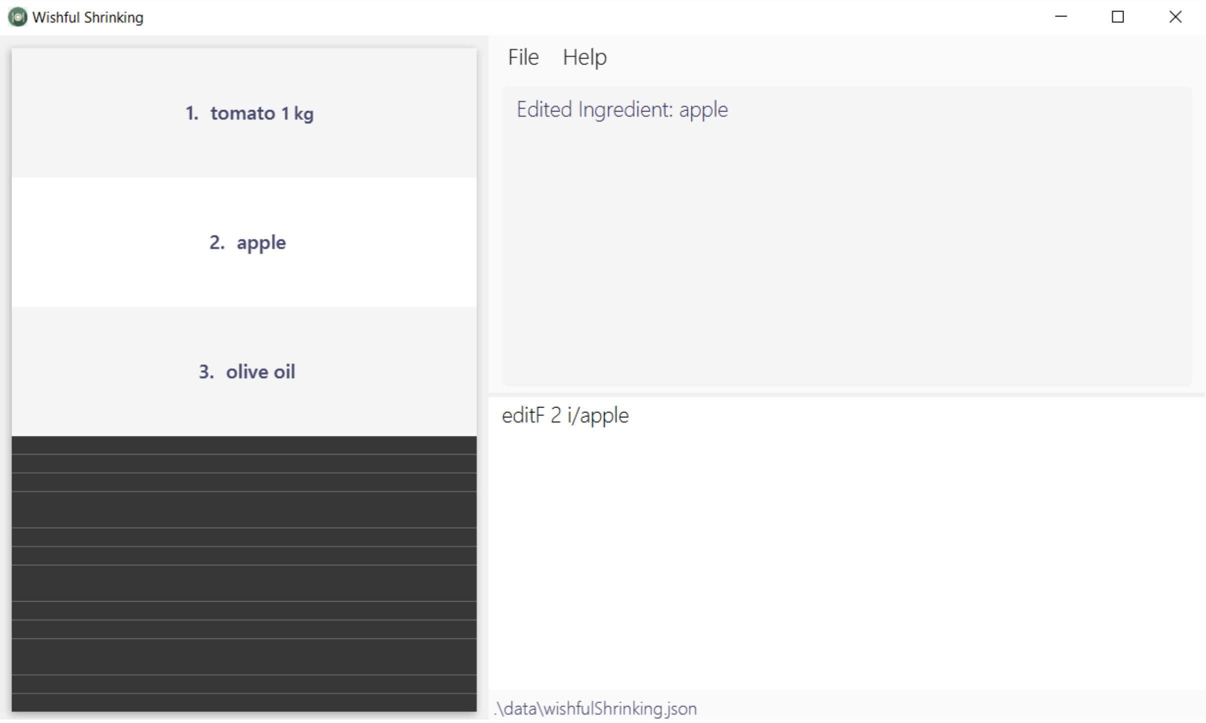
14. Deleting an ingredient : deleteF



```
Deleted Ingredient: chicken
```

```
deleteF 4
```

15. Editing an ingredient: editF

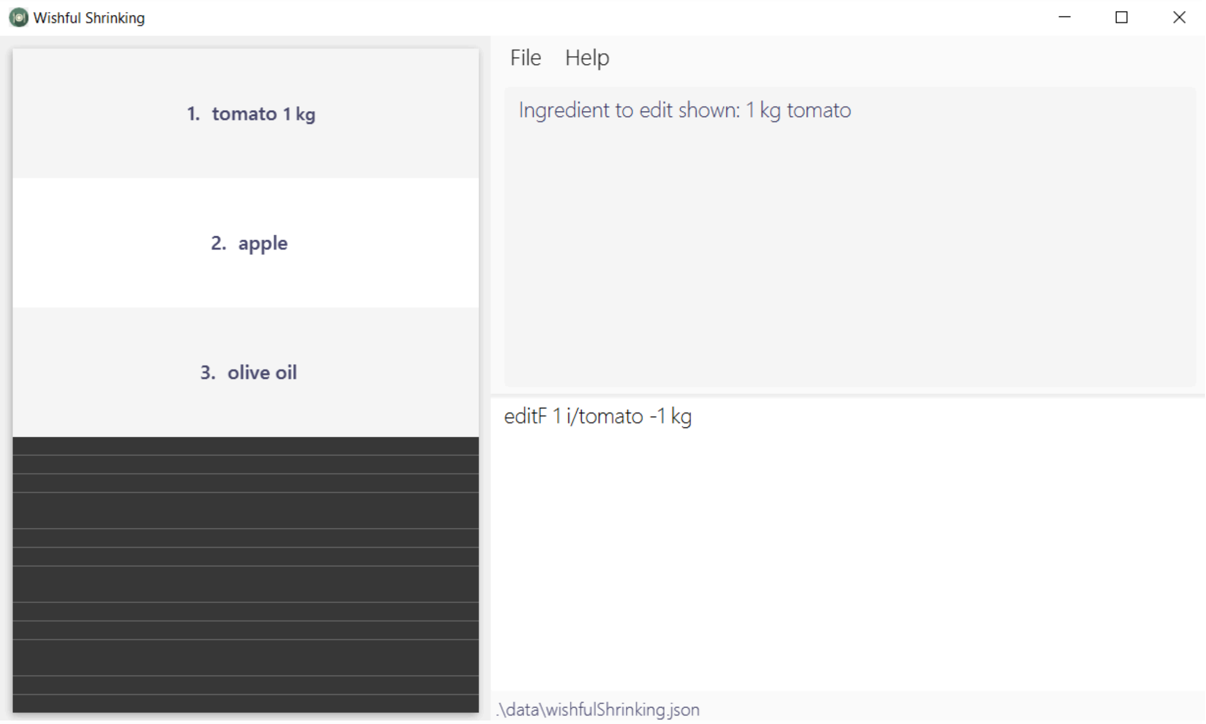


Edited Ingredient: apple

editF 2 i/apple

.\data\wishfulShrinking.json

16. Getting an ingredient to edit: editF

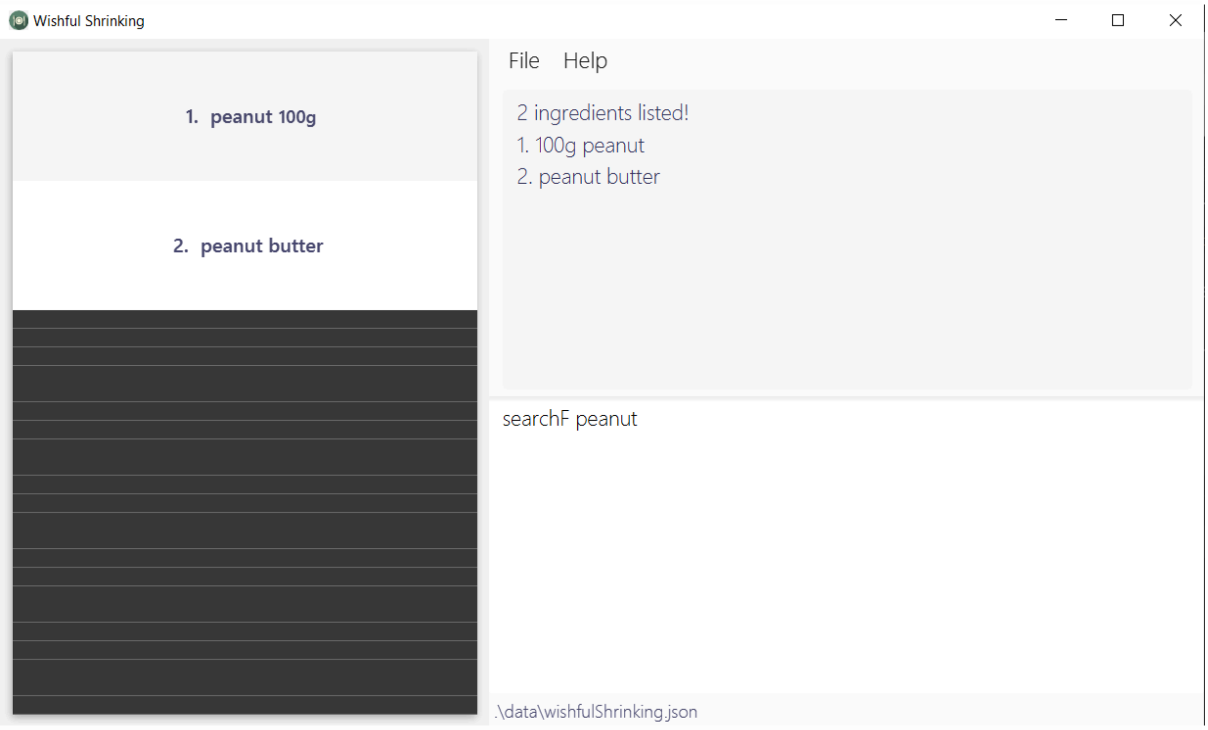


Ingredient to edit shown: 1 kg tomato

editF 1 i/tomato -1 kg

.\data\wishfulShrinking.json

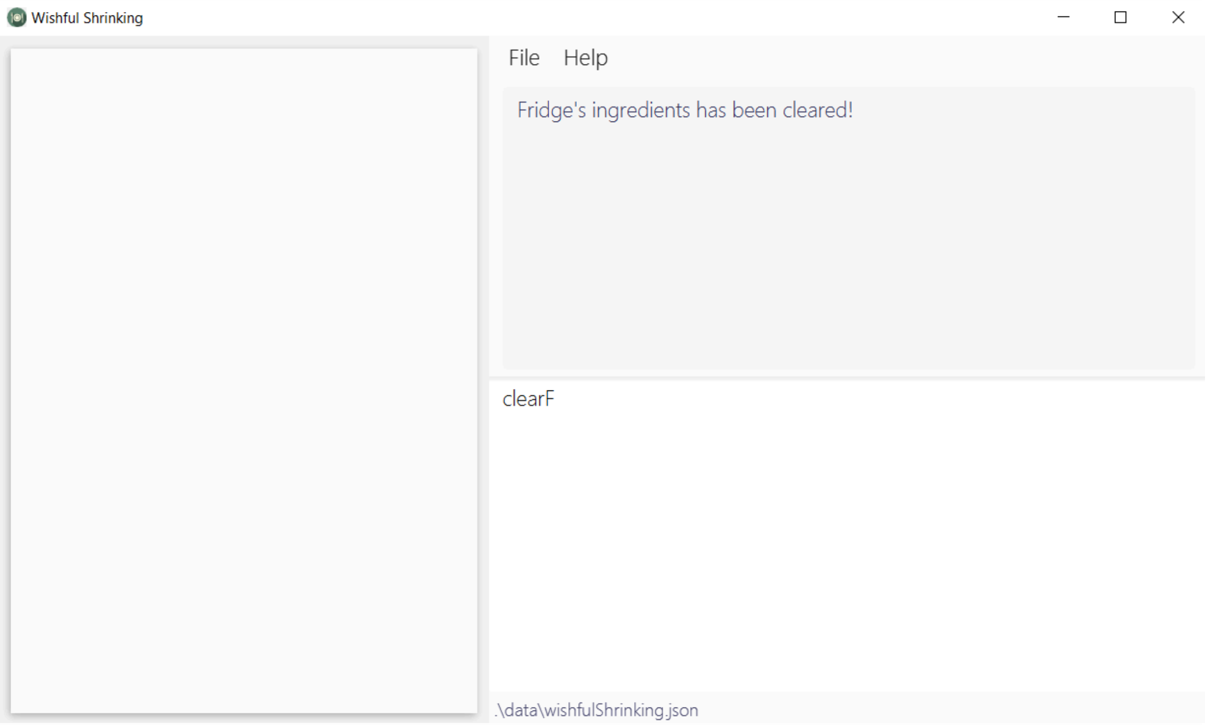
17. Searching for an Ingredient: searchF



2 ingredients listed!
1. 100g peanut
2. peanut butter

searchF peanut

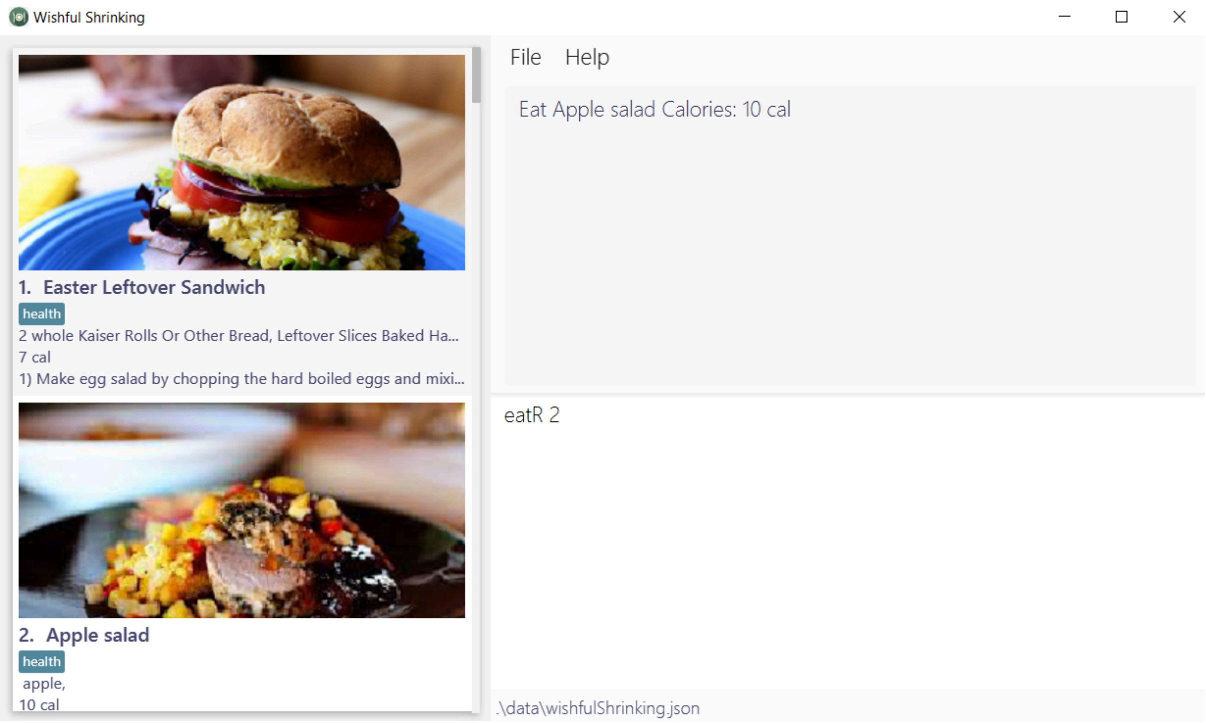
18. Clearing all ingredients : clearF



Fridge's ingredients has been cleared!

clearF

19. Eating a recipe : eatR

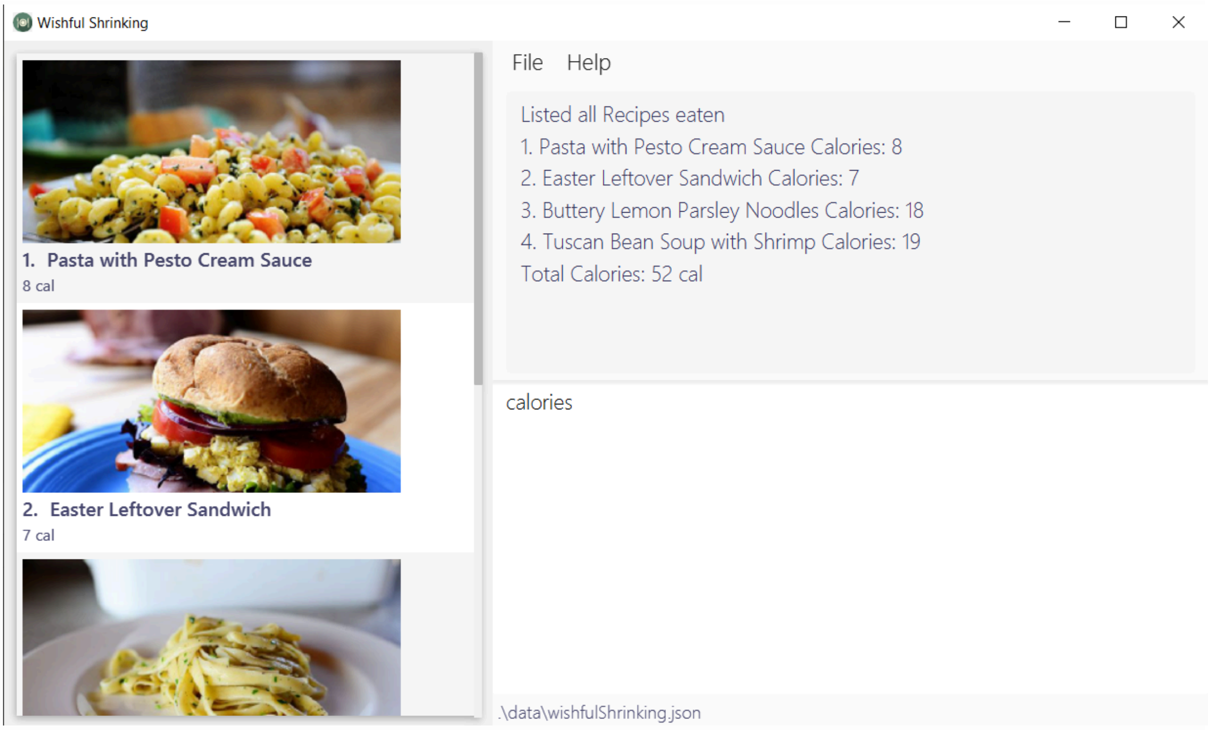

Wishful Shrinking
File
Help
1. Easter Leftover Sandwich
health
2 whole Kaiser Rolls Or Other Bread, Leftover Slices Baked Ha...
7 cal
1) Make egg salad by chopping the hard boiled eggs and mixi...
2. Apple salad
health
apple,
10 cal

```
Eat Apple salad Calories: 10 cal
```

```
eatR 2
```

.\data\wishfulShrinking.json

20. Listing all recipes eaten : calories

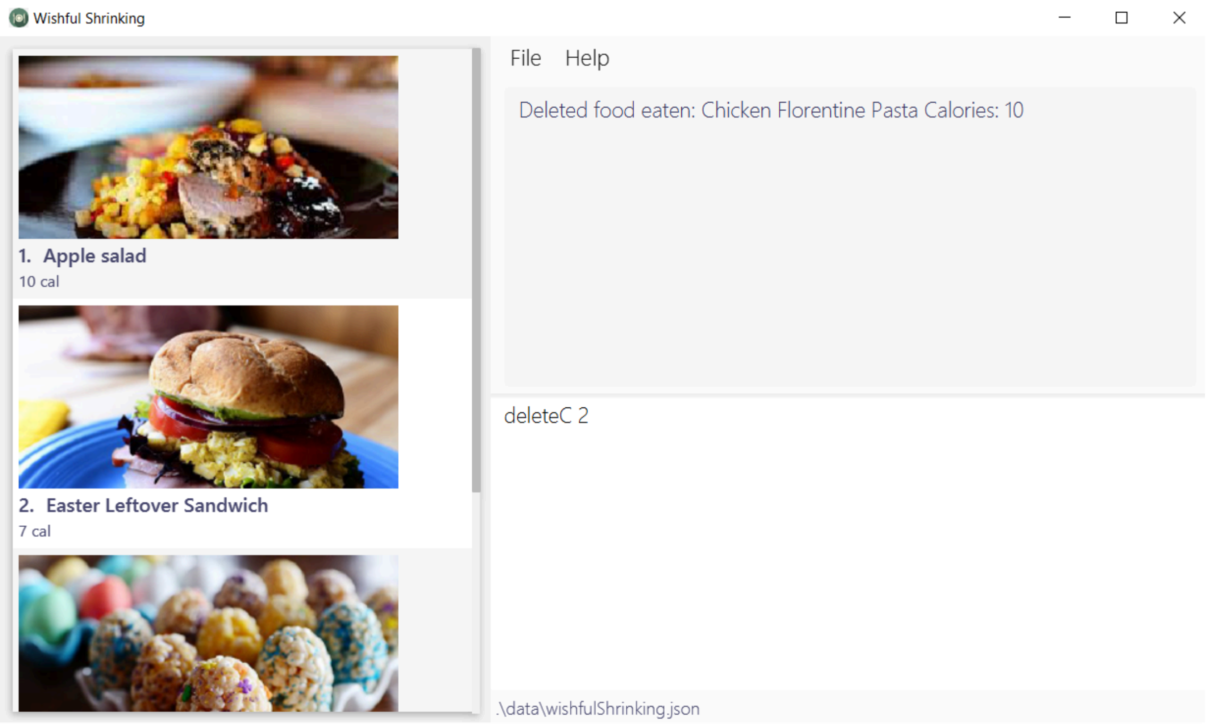

Wishful Shrinking
File
Help
1. Pasta with Pesto Cream Sauce
8 cal
2. Easter Leftover Sandwich
7 cal

```
Listed all Recipes eaten
1. Pasta with Pesto Cream Sauce Calories: 8
2. Easter Leftover Sandwich Calories: 7
3. Buttery Lemon Parsley Noodles Calories: 18
4. Tuscan Bean Soup with Shrimp Calories: 19
Total Calories: 52 cal
```

```
calories
```

.\data\wishfulShrinking.json

21. Deleting a recipe eaten: deleteC

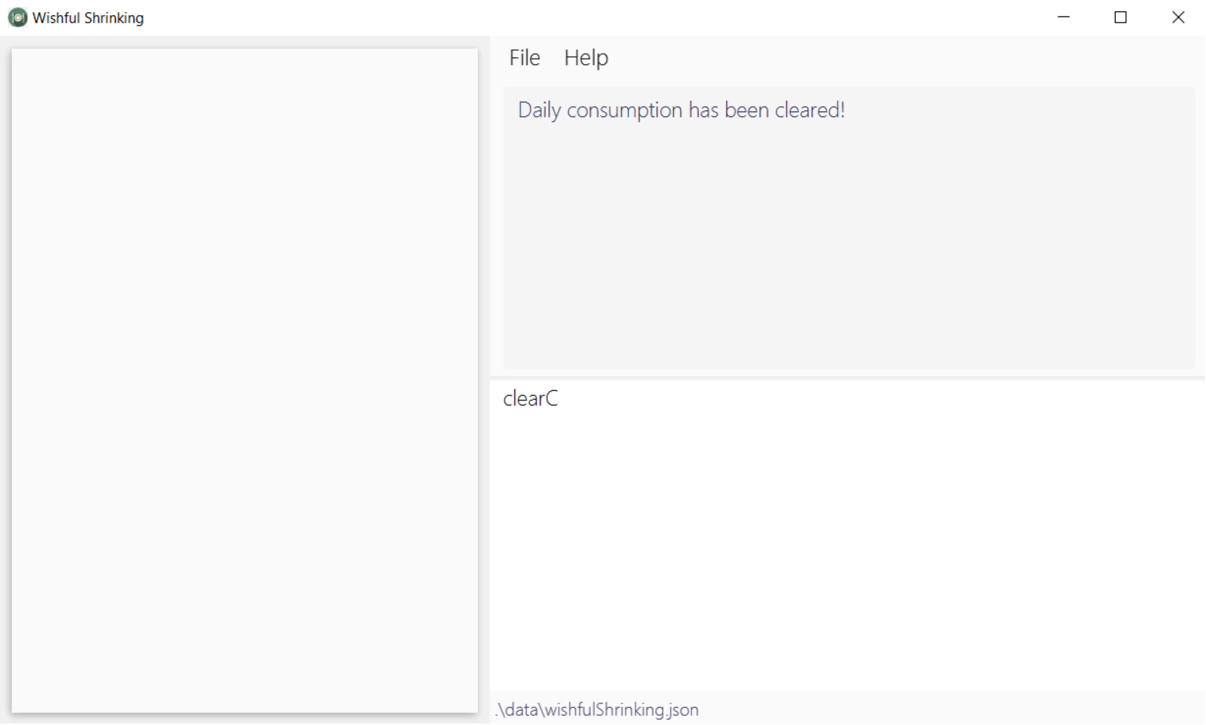


Deleted food eaten: Chicken Florentine Pasta Calories: 10

```
deleteC 2
```

.\data\wishfulShrinking.json

22. Clearing all consumed recipes : clearC



Daily consumption has been cleared!

```
clearC
```

.\data\wishfulShrinking.json

1/11/20

Commands

5.1 Recipe-related Commands

5.1.1 Adding a recipe: addR (hieu)

- Name (hieu)
- Ingredient (hieu)
- Instr (jia qi)
- Image (jia qi)
- Calories (ty)
- Tags (cait)

5.1.2 Listing all recipes : recipes (jiaqi)

5.1.3 Deleting a recipe : deleteR (jiaqi)

5.1.4 Editing a recipe: editR (Olivia)

- Name (olivia)
- Ingredient (olivia)
- Instr (jia qi)
- Image (jia qi)
- Calories (ty)
- Tags (cait)

5.1.5 Getting a recipe to edit: editR (Olivia)

5.1.6 Selecting a single recipe : selectR (Hieu)

5.1.7 Closing the recipe drawer : close (Hieu)

5.1.8 Searching for a recipe: searchR (cait)

5.1.9 Recommending recipes : recommend (cait)

5.1.10 Clearing all recipes : clearR (ty)

5.2 Fridge-related Commands

5.2.1 Adding an ingredient: addF

- Name (cait)
- Quantity (Olivia)

5.2.2 Listing all ingredients : fridge (Olivia)

5.2.3 Deleting an ingredient : deleteF (Olivia)

5.2.4 Editing an ingredient: editF (Olivia)

5.2.5 Getting an ingredient to edit: editF (Olivia)

5.2.6 Searching for an Ingredient: searchF (cait)

5.2.7 Clearing all ingredients : clearF (ty)

5.3 Consumption-related Commands

5.3.1 Eating a recipe : eatR (ty)

5.3.2 Listing all recipes eaten : calories (ty)

5.3.3 Deleting a recipe eaten: deleteC (cait)

5.3.4 Clearing all consumed recipes : clearC (ty)

5.4 UI (hieu):

5.4.1. Left Drawer

5.4.2. TextArea CommandBox

5.4.3. Left List Panel

5.4.4. Recipe Card

5.4.5. Ingredient Card

5.4.6. Consumption Card

Doc
CommandResult
Ingredient Parser
Instruction Parser

Not use warning
EditIngredientCommandParser
ImageParser
SearchIngredientCommandParser
EditRecipeCommandParser
RecipeImage
JsonAdaptedIngredient
JsonAdaptedTag
JsonSerializableWishfulShrinking
JsonAdaptedInstruction

Unknown warning
SearchRecipeCommandParser
Calories

Add test
SelectRecipeParser

7/11/20

Adding a recipe

Adding a recipe with all required fields into Wishful Shrinking's recipe list.

Prerequisites: The recipe being added is not already in Wishful Shrinking.

Test case: addR n/salad i/tomato, lettuce c/100 instr/Cook. Eat.

Expected: The recipe salad, with all its information, will be added to the recipe list on the left of Wishful Shrinking. The result box will show the information of that recipe.

Test case: addR n/burger i/bread, meat c/200 instr/Cook. Eat. img/images/healthy1.jpg t/tasty

Expected: The recipe burger, with all its information, will be added to the recipe list on the left of Wishful Shrinking. This test case differs with test case 1 in that it has the optional fields image and tags.

Test case: addR n/salad i/tomato c/100

Expected: An error message will be shown, as the non-optional field instruction is omitted. The message will show the correct input format of the addR command, and your command in the command box will turn red.

Adding an ingredient

Adding an ingredient into Wishful Shrinking’s ingredient list.

Prerequisites: The ingredient being added is not already in Wishful Shrinking.

Test case: addF i/banana

Expected: The ingredient banana will be added to the ingredient list on the left of Wishful Shrinking. The result box will show the information of that ingredient.

Test case: addF i/tomato -1kg

Expected: The ingredient tomato, along with its quantity, will be added to the ingredient list on the left of Wishful Shrinking. This test case differs with test case 1 in that it has the optional quantity.

Test case: addF i/milk -0

Expected: An error message will be shown, as the field quantity is invalid. The message will show the correct input format of the addF command, and your command in the command box will turn red.

Eating a recipe

Eating a recipe at a specific index in the recipe list and adding it into Wishful Shrinking’s consumption list.

Prerequisites: Wishful Shrinking’s recipe list is not empty.

Test case: eatR 1

Expected: First recipe in the displayed recipe list will be added into Wishful Shrinking’s consumption list. The result box will show the name and calories of that recipe.

Test case: eatR 0

Expected: No recipe is eaten. An error message will be shown, as the recipe index is invalid. The message will show the correct input format of the eatR command, and your command in the command box will turn red.

Other incorrect eatR commands to try: eatR, eatR x, … (where x is larger than the recipe list size)

Expected: Similar to previous.

List Recipes

Listing out all the recipes in Wishful Shrinking’s recipe list.

Prerequisites: Wishful Shrinking’s recipe list is not empty.

Test case: recipes

Expected: The full recipe list will be displayed on the left of Wishful Shrinking. The result box will show the name of all the recipes.

Test case: recipes x (where x is any additional arguments)

Expected: An error message will be shown, as recipes does not have any arguments. The message will show the correct input format of the recipes command, and your command in the command box will turn red.

List Ingredients

Listing out all the ingredients in Wishful Shrinking’s ingredient list.

Prerequisites: Wishful Shrinking’s ingredient list is not empty.

Test case: fridge

Expected: The full ingredient list will be displayed on the left of Wishful Shrinking. The result box will show the information of all the ingredients.

Test case: fridge x (where x is any additional arguments)

Expected: An error message will be shown, as fridge does not have any arguments. The message will show the correct input format of the fridge command, and your command in the command box will turn red.

List Consumption

Listing out all the recipes eaten in Wishful Shrinking’s consumption list.

Prerequisites: Wishful Shrinking’s consumption list is not empty.

Test case: calories

Expected: The full consumption list will be displayed on the left of Wishful Shrinking. The result box will show the names and calories of recipes eaten, as well as the total calories consumed.

Test case: calories x (where x is any additional arguments)

Expected: An error message will be shown, as calories does not have any arguments. The message will show the correct input format of the calories command, and your command in the command box will turn red.

Selecting a recipe

Selecting a recipe at a specific index in the recipe list to view its full information,

Prerequisites: Wishful Shrinking’s recipe list is not empty.

Test case: selectR 1

Expected: The full information of the first recipe in the recipe list will be shown in a drawer that will open on the left. The result box will show the information of the recipe.

Test case: selectR 0

Expected: No recipe is selected. An error message will be shown, as the recipe index is invalid. The message will show the correct input format of the selectR command, and your command in the command box will turn red.

Other incorrect selectR commands to try: selectR , selectR x, … (where x is larger than the recipe list size)

Expected: Similar to previous.

Searching for Recipes

Searching for recipes in Wishful Shrinking’s recipe list by their ingredients, name or tag.

Prerequisites: Wishful Shrinking’s recipe list is not empty, and there is the recipe salad with the ingredient tomato.

Test case: searchR n/salad

Expected: All recipes whose name contains the keyword salad will be shown on the left of Wishful Shrinking.

Test case: searchR i/tomato

Expected: All recipes whose ingredients contain tomato will be shown on the left of Wishful Shrinking. This test case differs with test case 1 in that it searches by ingredient instead of name.

Test case: searchR c/100

Expected: An error message will be shown, as searchR does not search by the calorie field. The message will show the correct input format of the searchR command, and your command in the command box will turn red.

Searching for Ingredients

Searching for ingredients in Wishful Shrinking’s ingredient list by names.

Prerequisites: Wishful Shrinking’s ingredient list is not empty, and there is the ingredient tomato.

Test case: searchF tomato

Expected: All ingredients whose name contains the keyword tomato will be shown on the left of Wishful Shrinking.

Test case: searchF

Expected: An error message will be shown, as searchF takes in keywords to search for. The message will show the correct input format of the searchF command, and your command in the command box will turn red.

Recommend

Listing out all the recipes in Wishful Shrinking's recipe list whose ingredients are all in the fridge.

Prerequisites: Wishful Shrinking's recipe list has a recipe whose ingredients have all been added to the fridge.

Test case: recommend

Expected: The list of recommended recipes will be displayed on the left of Wishful Shrinking. The result box will show the name of all the recommended recipes.

Test case: recommend x (where x is any additional arguments)

Expected: An error message will be shown, as recommend does not have any arguments. The message will show the correct input format of the recommend command, and your command in the command box will turn red.

Deleting a recipe

Deleting a recipe at a specific index while all recipes are being shown in the recipe list.

Prerequisites: List all recipes using the `recipes` command. Multiple recipes in the list.

Test case: deleteR 1

Expected: Recipe with index 1 will be deleted from the list.

Test case: deleteR 0

Expected: An error message will be shown, as the recipe with index 0 is not present. The message will show the correct input format of the deleteR command, and your command in the command box will turn red.

Other incorrect deleteR commands to try: deleteR, deleteR x, … (where x is larger than the recipe list size or x is not a positive integer)

Expected: Similar to previous.

Deleting an ingredient

Deleting an ingredient at a specific index while all ingredients are being shown in the fridge

Prerequisites: List all ingredients using the `fridge` command. Multiple ingredients in the list.

Test case: deleteF 1

Expected: Ingredient with index 1 will be deleted from the list.

Test case: deleteF 0

Expected: An error message will be shown, as the ingredient with index 0 is not present. The message will show the correct input format of the deleteF command, and your command in the command box will turn red.

Other incorrect deleteF commands to try: deleteF, deleteF x, … (where x is larger than the recipe list size or x is not a positive integer)

Expected: Similar to previous.

Delete an eaten recipe from the consumption list

Deleting an eaten recipe at a specific index while all recipes are being shown in the consumption list.

Prerequisites: List all eaten recipes using the `calories` command. Multiple eaten recipes in the list.

Test case: deleteC 1

Expected: Eaten recipe with index 1 will be deleted from the list.

Test case: deleteC 0

Expected: An error message will be shown, as the eaten recipe with index 0 is not present. The message will show the correct input format of the deleteC command, and your command in the command box will turn red.

Other incorrect deleteC commands to try: deleteC, deleteC x, … (where x is larger than the recipe list size or x is not a positive integer)

Expected: Similar to previous.

Edit a recipe

Edit some fields in a recipe.

Prerequisites: The recipe must exist and it is accessed via a valid index.

Test case: editR 1 n/bread i/flour

Expected: The fields specified for the first recipe in the recipe list will be updated with bread for its name and flour for its ingredient. The result box will show the newly updated details of the recipe.

Test case: editR 1 n/bread i/flour img/images/healthy1.jpg t/healthy

Expected: The fields specified for the first recipe in the recipe list will be updated with bread for its name and flour for its ingredient. The result box will show the newly updated details of the recipe. This test case differs with test case 1 in that it has the optional fields image and tags, which will also be updated with the new values.

Test case: editR 1 (**get edit**)

Expected: The result box will show all the details of the first recipe.

Test case: editR 1 x (same name and quantity of the ingredient in fridge)

Expected: An error message will be shown, as it is the same ingredient. The result box will show that no edits are made. Your command in the command box will turn red.

Other incorrect editF commands to try: editF (no fields specified)

Expected: Similar to previous.

Edit an ingredient

Edit some fields in a recipe.

Prerequisites: The recipe must exist and it is accessed via a valid index.

Test case: editF i/flour - 10g

Expected: The name and quantity of the ingredient will be updated. The result box will show the newly updated details of the ingredient.

Test case: editF 1 (**get edit**)

Expected: The result box will show all the details of the first ingredient.

Test case: editF i/pepper - 10g, flour - 10g

Expected: An error message will be shown, as the eaten recipe with index 0 is not present. The message will show the correct input format of the editF command, and your command in the command box will turn red.

Other incorrect editF commands to try: editF (no fields specified), editF x (same as the ingredient in the fridge - no changes made)

Expected: Similar to previous.

Clear recipe

Clear all recipes from the recipe list.

Prerequisites: There must be more than one recipe in the recipe list.

Test case: clearR

Expected: All recipes are cleared from the recipe list. The result box will show a message.

Test case: clearR 1

Expected: An error message will be shown, as the eaten recipe with index 0 is not present. The message will show the correct input format of the clearR command, and your command in the command box will turn red.

Other incorrect clearR commands to try: clearR x (where x is extra arguments)

Expected: Similar to previous.

Clear ingredient

Clear all ingredients from the fridge.

Prerequisites: There must be more than one ingredient in the fridge.

Expected: All ingredients are cleared from the fridge. The result box will show a message.

Test case: clearF 1

Expected: An error message will be shown, as the eaten recipe with index 0 is not present. The message will show the correct input format of the clearF command, and your command in the command box will turn red.

Other incorrect clearF commands to try: clearF x (where x is extra arguments)

Expected: Similar to previous.

Clear consumption

Clear all eaten recipes from the consumption list.

Prerequisites: There must be more than one eaten recipe in the consumption list.

Test case: clearC

Expected: All eaten recipes are cleared from the consumption list. The result box will show a message.

Test case: clearC 1

Expected: An error message will be shown, as the eaten recipe with index 0 is not present. The message will show the correct input format of the clearC command, and your command in the command box will turn red.

Other incorrect clearC commands to try: clearC x (where x is extra arguments)

Expected: Similar to previous.

We highly recommend adding an appendix named Effort that evaluators can use to estimate the total project effort.

Keep it brief (~1 page)

Explain the difficulty level, challenges faced, effort required, and achievements of the project.

Use AB3 as a reference point e.g., you can explain that while AB3 deals with only one entity type, your project was harder because it deals with multiple entity types.

Term	Scope/ Measured by
Difficulty level	1. Involves learning and applying new skill 2. Not built off existing ab3 features 3. Involves many classes 4. Many variations of user input 5. Involves many checks before execution of action 6. Consideration for future enhancements
Effort required	1. Involves learning and applying new skills 2. Time to implement 3. Complexity of feature a. Responsive UI b. Many variations of user input c. Involves many checks before execution of action 4. Priority of feature which determine extent of testing needed

Achievements	1. Feature works as specified and as expected 2. Feature fails gracefully

Starting with the hardest features would be to edit recipes and add recipes. Handling images in Wishful Shrinking and building a response UI also proved to be very difficult.

Point of Comparison	AB3	Wishful Shrinking
Complexity of fields and checks needed	Simple checks for email, alphanumeric and numeric characters	Difficulty: 5/5 Effort: 5/5 Checks for alphanumeric, validity of value of input integer, float (fractions and decimals), and alphabets. For example, the quantity field of the ingredient involves extensive checks on whether they are of the correct format and whether the number portion of quantity which allows fractions, decimals or integers is positive. The presence of multiple ingredients and instructions in recipe also required additional validity checks and parsing.
Duplicates	Duplicate contact means equal values for every field without consideration for upper and lower cases. This will miss out the case where two strings are the same but do not have the same cases.	Difficulty: 5/5 Effort: 5/5 Duplicate recipes mean only equal values for recipe name and ingredient names regardless of order. Also needed to check for duplicate ingredients in add and edit recipes. Checks for duplicate recipes vary for add and edit command. In add command it checks for equal recipe name and ingredient names regardless of order and not taking into account cases while in edit command it checks for equality of all fields regardless of order and taking into account cases. Wishful Shrinking takes into account upper and lower cases when checking for duplicate items.

Data Fetching	No online data fetching	Difficulty: 5/5 Effort: 5/5 Allows users to download images from the internet and save locally if they are connected to the internet. Otherwise the app displays a default image and users can update it later. An asynchronous HTTP request is sent whenever the user adds an image. The response will then be read as byte stream and written to a local image file.
UI	Simple UI	Difficulty: 5/5 Effort: 5/5 Extensive additions of responsive and helpful UI components such as drawer, text area and cards. To make the UI responsive, a lot of event listeners and bindings were implemented to connect all components together. This way all components will be updated if one of them changes in size. We have done extensive research on JFoenix library in order to use its components.

Achievements: After having spent a lot of time doing research on the home cooking market as well as recipe structures, we created a software solution for busy office workers who want to eat home-cooked meals. We have successfully applied the real world interactions between home cooking related objects to our OOP solution.

Aspect 2: How do we successfully parse the ingredients the user has added with the optional ingredient quantity

- **Alternative 1 (*current choice*):** Add a quantity field in the Ingredient class as well as a IngredientParser class that parses the user input ingredients into an arraylist of Ingredient objects
  - Pros: Abstract out code
  - Cons: More work needed to check if the optional quantity field is present before parsing and checking for validity
- Alternative 2: Make ingredient quantity field compulsory
  - Pros: Easy to implement as command format is consistent

        - Cons: Quantity may be irrelevant and outdated if it is compulsory for all

Delete

Aspect 2: When the user deletes a recipe from the recipe list, should it also be deleted from the consumption list (if present)

- **Alternative 1 (*current choice*):** Store a copy of the recipe in the consumption list so that it is not deleted if the recipe is deleted from the recipe list.
    - Pros: Recipes consumed will be accurate.
    - Cons: Use additional memory space.
- Alternative 2: Remove recipe in consumption list when deleting the recipe in recipe list.
    - Pros: No unknown recipe being saved in Wishful Shrinking.
    - Cons: User could not accurately track their calories intake.

Recommend

Aspect 1: How do we quickly and accurately compare ingredients between each recipe and the user's fridge

- **Alternative 1 (*current choice*):** Compare the exact ingredients in each recipe to the users ingredients in the fridge
    - Pros: Easy to implement
    - Cons: Ingredients might not match if the spellings are different, or if the ingredient have similar names e.g. mozarella and cheese. Additionally, if users do not add basic ingredients into their fridge, e.g. salt and pepper, many recipes will not be recommended to them.
- **Alternative 2 :**