

Technical Planning

1.1 Plan to Address Objectives

In your business case you specified a few objectives. These were real-world issues that your software intervention will address. In this section you need to stipulate what you will do in your software to address these objectives. E.g. the following objectives were stated in the business case:

1

- Offer personalized meal plans which cater to various dietary preferences

↳ we can make use of Edamam

```
def get_nutrition_data(ingredients_list):  
    app_id = "5c725c2f"  
    app_key = "78c493d0e92be378e7cd9ea2e5f78a84"  
    url = "https://api.edamam.com/api/nutrition-data"  
    headers = {  
        'Content-Type': 'application/json'  
    }  
    params = {  
        "app_id": app_id,  
        "app_key": app_key,  
        "ingrs": ingredients_list  
    }  
    response = requests.get(url, headers=headers, params=params)  
    return response.json()
```

```
ingredients = ['% cup assorted dals (such as chana dal, moong dal, masoor dal, and/or urad dal)', '% cup white jasmine rice or other'  
nutrition_info = get_nutrition_data(ingredients)  
print(nutrition_info)
```

Nutrition Facts	
Amount Per Serving	
Calories	3752
	% Daily Value*
Total Fat 239.8 g	369 %
Saturated Fat 75.5 g	377 %
Trans Fat 0.6 g	
Cholesterol 496.7 mg	166 %
Sodium 3621.8 mg	151 %
Total Carbohydrate 244.8 g	82 %
Dietary Fiber 41.7 g	167 %
Total Sugars 30.3 g	
Includes - Added Sugars	
Protein 168.7 g	337 %
Vitamin D 0.7 µg	5 %
Calcium 468.8 mg	47 %
Iron 31.4 mg	174 %
Potassium 4416 mg	94 %
*Percent Daily Values are based on a 2000 calorie diet	

↳ gives us nutrition facts and categories (keto, paleo ... etc) → edits need to be made though

2.

- Provide a means to filter recipes and search for recipes based on available ingredients

↳ Make use of Spacy

↳ Have to check if every recipe is using the same spelling

↳ Use regex where necessary

3.

- Offer step-by-step instructions with integrated timers for efficient cooking

Timer class abstract interface

A countdown timer that can be configured to fire once or repeatedly.

The timer counts down from the specified duration to 0. When the timer reaches 0, the timer invokes the specified callback function. Use a periodic timer to repeatedly count down the same interval.

A negative duration is treated the same as [Duration.zero](#). If the duration is statically known to be 0, consider using [run](#).

→ make use of this

→ Example layout (Very basic)

... and Text to speech



↳ Timers and Text to speech

flutter_tts 4.0.2

Published 5 months ago • @tundralabs.com Dart 3 compatible

SDK | FLUTTER | PLATFORM | ANDROID | IOS | MACOS | WEB | WINDOWS

1.2K

Readme | Changelog | Example | Installing | Versions | Scores

Text To Speech

DUB v4.0.2

A flutter text to speech plugin (Swift, Kotlin)

or should it be automatic?

or should we have Buttons?

← →
↳ swipe left or right

4. login AND SIGN UP

↳ FIREBASE → AUTHENTICATION COVERED

5. • Enable offline saving of recipes and grocery lists.

↳ MAKE USE OF SHARED PREFERENCES so RECIPES, GROCERY LISTS AND MEAL PLANS CAN BE SAVED

↳ GENERATE GROCERY LIST BASED ON INGREDIENTS

6. • Allow users to adjust recipes (such as changing metric systems and serving sizes)

↳ HAVE A MATH ALGORITHM THAT CONVERTS OUNCES TO g and etc. for every recipe

7. • Make planning meals easier by incorporate a meal planner

↳ CALENDER INTEGRATION (Google calendar maybe even)

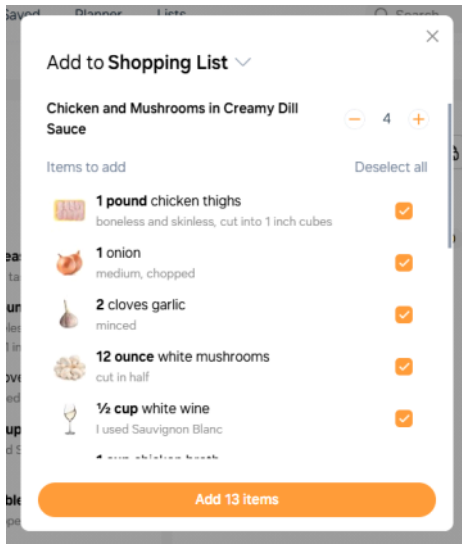
↳ FOR THE WHOLE WEEK

↳ HAVE LUNCH, DINNER, BREAKFAST

8.

- Grocery lists generation based on selected recipe

↳ IN EACH RECIPE, THERE COULD BE A GENERATE GROCERY LIST BUTTON



→ VERY Cool layout, should look similar

→ Also be able to modify grocery list
↳ like how many onions or garlic cloves, etc.

9.

- Allow users to add and share their own recipes

↳ Okay here we have to think

↳ Rules for uploading, By share is it with every one or just with people you know?

↳ Will there be social interactions?

↳ Ratings

↳ Store ratings

↳ Followings?

} AVERAGE RATINGS

↳ USING SQL AVG formula.

↳ followings?

↳ MODERATORS? (People to ensure recipe quality formula.)

10. • Support multi-platform access so the app is accessible across various devices

↳ ACCESS ACROSS THE WEB AND ANDROID AND APPLE.

↳ BUT
CAN'T GET.