

HCI 440  
Team 1, DJ FLAVOR  
Team Project 3, Prototype 1  
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Ben Fields, Project Manager, Scenario  
Maria Dahman, Editor, Executive Summary  
Nathan Varjavand, Scenario  
Susanna Ludwig, Sketches, Wireframes  
Roslyn Jones, Scenario

## Executive Summary

Foobie is an iPhone app to help budget-conscious chefs locate recipes and grocery stores, and provide a cost estimate of each recipe.

Our top three use cases are:

a working professional hitting a store on the way home from work

a low-income student preparing a dinner to impress a date

a shopper finding unfamiliar foods at a farmer's market and looking for recipes while shopping

Given these use cases, important parts of the prototype are: 1.) store locator, 2) cost estimate, and 3) choosing a recipe.

## Scenario 1

### Prototype: Store Locator

Jared is at work and needs to find a place to buy all the ingredients for dinner on the way home. He'd like to find a store that has the best deals on the ingredients he needs. He has previously used the Foobie app to find a recipe, create a shopping list, and store the shopping list to his Favorites.

1. He opens the Foobie app.
2. He accesses the saved recipe from the Favorites page.
3. He generates the shopping list from the recipe with estimated cost.
4. He pulls up the store locator which displays the nearest stores that sell all the ingredients as well as any coupons or discounts offered by those stores. Stores with coupons are marked by a red pin on the map.

He goes to the most convenient store location on the way home and uses the shopping list, marking off the ingredients while shopping.

Search by ingredients

Search by recipe

Favorites

Trending recipes

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## Favorites

Dinner 10/5  
Turkey chili

Best cookies  
Chocolate chip coconut cookies

Shannon's party 9/18  
Dill dip

Dinner 8/26  
Spinach casserole

Breakfast 7/19  
German pancakes

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Turkey chili

Cost: \$15

Difficulty: \*\*

yield: Serves 4

time: Prep: 10 Cook: 30

### Ingredients

3 tablespoons extra-virgin olive oil

1 medium yellow onion, chopped

5 cloves garlic, chopped

1 tablespoon salt

2 teaspoons chili powder

1 teaspoon dried oregano

1 tablespoon tomato paste

1 pound ground turkey

1 (14 1/2-ounce) can whole peeled tomatoes

1 (15 1/2-ounce) can kidney beans, rinsed and drained

### Directions

Heat the olive oil in a large, heavy skillet over medium-high heat. Add the onion, garlic, salt, chili powder, and oregano and cook, stirring, until fragrant, about 3 minutes. Stir in the tomato paste and the chipotle chile and sauce; cook 1 minute more. Add the turkey, breaking it up with a wooden spoon, and cook until the meat

Generate shopping list

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Check off the ingredients you already have:

- ☐ 3 tablespoons extra-virgin olive oil
- ☐ 1 medium yellow onion, chopped
- ☐ 5 cloves garlic, chopped
- ☐ 1 tablespoon salt
- ☐ 2 teaspoons chili powder
- ☐ 1 teaspoon dried oregano
- ☐ 1 tablespoon tomato paste
- ☐ 1 pound ground turkey
- ☐ 1 (14 1/2-ounce) can whole peeled tomatoes
- ☐ 1 (15 1/2-ounce) can kidney beans, rinsed and drained

Current total = \$10

Map (drag to open)



Map (drag to close)

COUPON

## **Questions/Concerns**

- 1) Will the user get confused having to access the recipe then generating a shopping list?
- 2) Will the user understand how to access the map of local stores?
- 3) The user could consider it a waste of time to go through a lot of steps to access the map?
- 4) Will the user understand which stores are offering discounts?

### Prototype: Cost Estimate

Jacob is a college student preparing for an important date tonight. He has already promised his date that he will cook a wonderful, new meal for her, using her favorite meat: turkey. Though as a college student, Jacob's funds are limited. Jacob, not being too experienced with cooking, uses his Foobie app on his mobile to find a recipe using turkey that will not cost him too much.

1. Jacob opens his Foobie app.
2. Jacob selects to search by ingredients.
3. Jacob is presented with a keyboard after touching the search bar.
4. Jacob begins to input turkey as the main ingredient.
5. Jacob adds a supplement ingredient.
6. Jacob adds a supplement ingredient.
7. Jacob is presented with a list of recipes sorted by estimated cost.

Jacob then is able to select the most cost efficient meal based on the recipe cost estimates provided by his Foobie app.



Search by ingredients

Search by recipe

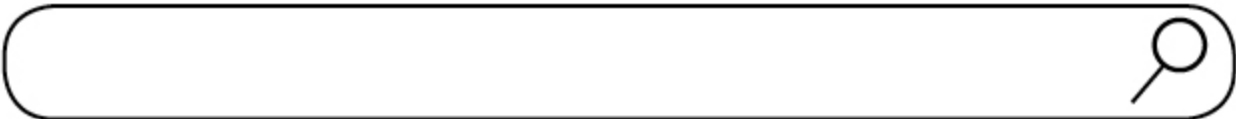
Favorites

Trending recipes

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[Back](#)

turk



turkey

Back

tomatoes



turkey

Roasted turkey

Cost: \$10

Difficulty: \*\*\*

Turkey chili

Cost: \$15

Difficulty: \*\*

Turkey and gravy

Cost: \$20

Difficulty: \*\*\*\*

Back

green pepper



turkey

tomatoes

Turkey chili

Cost: \$15

Difficulty: \*\*

Turkey tomato stew

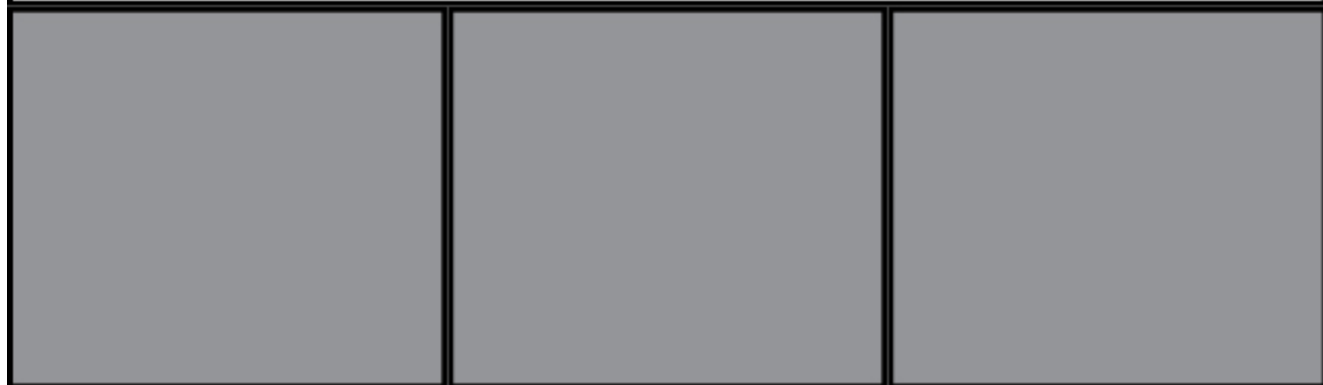
Cost: \$20

Difficulty: \*\*

Grilled turkey panini

Cost: \$25

Difficulty: \*\*



Back



turkey

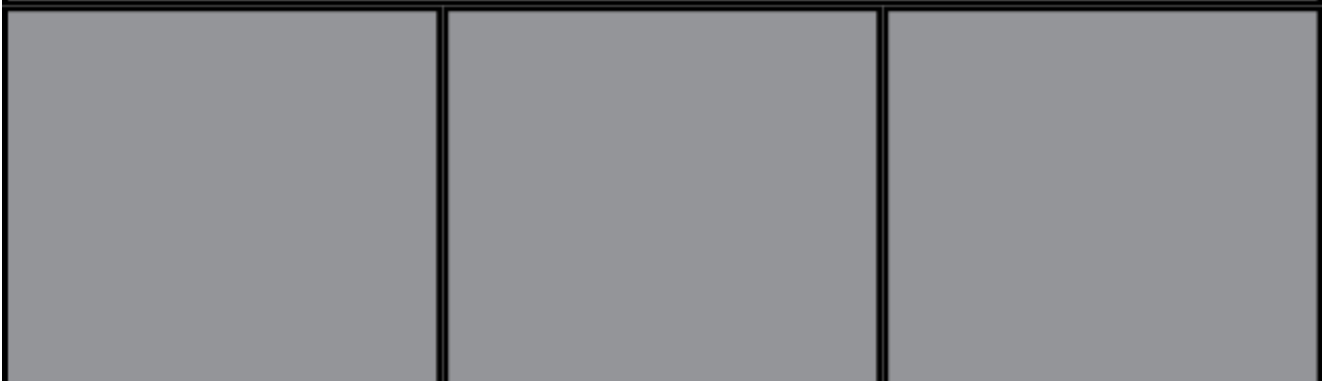
tomatoes

green pepper

Turkey chili  
Cost: \$15  
Difficulty: \*\*

Turkey tomato stew  
Cost: \$20  
Difficulty: \*\*

Mexican turkey with chipotles  
Cost: \$30  
Difficulty: \*\*\*



## **Questions/Concerns**

- 1) Will the user be able to identify that the list will completely fill only once each ingredient is entered?
- 2) Will the user recognize that the list can/will change as more ingredients are inputted?
- 3) Will the user understand that the back button is used to return to previous screens rather than delete ingredients from his list?
- 4) The fact that the user will need to click the magnifying glass on the search bar to actually add the ingredient to his list might be confusing to some at first.
- 5) The user may initially want the list sorted by a different parameter than price.



### Scenario 3

#### Prototype: Choosing a Recipe

Alice is at the local farmer's market buying fresh groceries as she usually does. Today there's a special on dragon fruit, an item Alice has neither purchased nor cooked with. She immediately wonders what the dragon fruit could be used for. Alice pulls out her iPhone and clicks on the Foobie app.


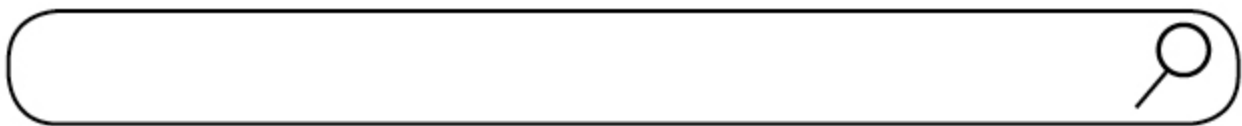
- 1) Alice selects the search by recipes.
- 2) She is then presented with a search menu.
- 2) Using the virtual keyboard she types in dragon fruit.
- 3) Within seconds she is presented with a list of recipes that include dragon fruit.
- 4) Alice selects the dragon fruit pie and the recipe is displayed on her iPhone.
- 5) With a click of a button Alice generates her shopping list.
- 6) As she shops she checks off the items she has just purchased at the farmers market and the items she knows that she has at home.

Search by ingredients

Search by recipe

Favorites

Trending recipes

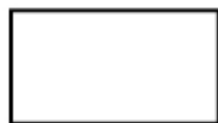
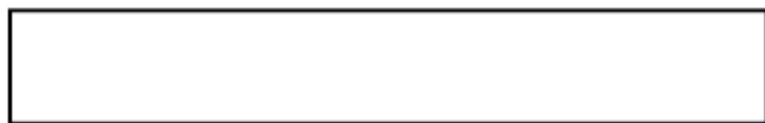
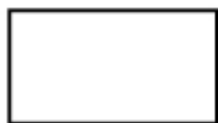
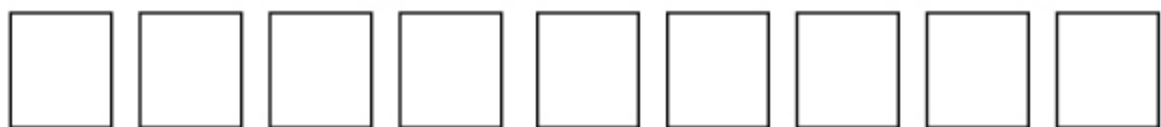
 Back

Back

drago



dragon fruit



Back



dragon fruit

Dragon fruit pie

Cost: \$10

Difficulty: \*\*\*

Dragon fruit cobbler

Cost: \$15

Difficulty: \*\*

Dragon fruit salad

Cost: \$20

Difficulty \*

Back



Dragon fruit pie

Cost: \$10

Difficulty: \*\*\*

yield: Serves 8 to 10

time: Baking Time: 60 to 75 minutes

Ingredients:

1 3/4 cups (8 3/4 ounces) all-purpose flour

1 tablespoon granulated sugar

1/2 teaspoon fine sea salt

12 tablespoons (6 ounces) cold unsalted butter, cut into 1/2-inch cubes

3 tablespoons ice water

1 teaspoon freshly squeezed lemon juice

10 dragon fruits, peeled and sliced

1/2 cup (3 1/2 ounces) granulated sugar

2 tablespoons cornstarch

Directions:

To make the pie pastry, put the flour, sugar, and salt in a bowl, stir to combine, then put the bowl in the freezer for 10 minutes.

Add the butter to the flour mixture and toss to evenly coat. Cut the butter into the flour mixture using a

Generate shopping list

Back

Check off the ingredients you already have:

- ☐ 1 3/4 cups (8 3/4 ounces) all-purpose flour
- ☐ 1 tablespoon granulated sugar
- ☐ 1/2 teaspoon fine sea salt
- ☐ 12 tablespoons (6 ounces) cold unsalted butter, cut into 1/2-inch cubes
- ☐ 3 tablespoons ice water
- ☐ 1 teaspoon freshly squeezed lemon juice
- ☐ 10 dragon fruits, peeled and sliced
- ☐ 2 tablespoons cornstarch

Map (drag to open)

Current total = \$10

Back

Check off the ingredients you already have:

- ☒ 1 3/4 cups (8 3/4 ounces) all-purpose flour
- ☒ 1 tablespoon granulated sugar
- ☐ 1/2 teaspoon fine sea salt
- ☐ 12 tablespoons (6 ounces) cold unsalted butter, cut into 1/2-inch cubes
- ☒ 3 tablespoons ice water
- ☐ 1 teaspoon freshly squeezed lemon juice
- ☒ 10 dragon fruits, peeled and sliced
- ☐ 2 tablespoons cornstarch

Map (drag to open)

Current total = \$6



**User Questions/Concerns**

1. Will the user know where she is in the application as she navigates through the application?
2. Is there a way to turn off the auto text feature?
3. Will the user understand the difficulty level ratings of the recipes?
4. Will the user understand the heart icon when the recipe is displayed?
5. Will the user understand how to check off the ingredients she already has?
6. Can the user bookmark where she left off at, if the user has to close the app?
7. Can a user save the recipes she finds?