



Medium-Fi Prototype README

Team Spice Rack

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Project Overview

Problem

Most people love food but find culinary exploration difficult — they're too busy, not confident in their skills, or generally unmotivated to do so.

Solution

With FoodDex, home cooks can harness the nostalgia of collecting badges and food-related memories to widen their culinary cultural horizons by cooking (or otherwise encountering) diverse cultural dishes to fill their FoodDex.

Design Tools

We used Figma as a wireframing tool to design and create our prototype, since it allowed us to implement several different task flows and allowed for easy collaboration.

The prototype is designed to simulate a mobile application, and the screens appear as if the user is on an iPhone.

Prototype Link

The interactive prototype can be accessed through [this link](#).

Operating Instructions

This section explains how to operate the prototype and provides an overview of the main features / screens. Note that for any page of the prototype, clicking on the screen will reveal flashing blue boxes, or "hotspots," that indicate which parts of that page are clickable in the prototype. There is also a back button throughout the prototype that allows users to go back to the previous page.

Home Page

Navigation and Search Bar

- From left to right, the bottom navigation bar includes icons that lead to the Home, My Passport, and My Feed pages. Click on any of these icons to be taken to that corresponding page.
- Search for a specific cuisine, dish, etc. in the top search bar underneath the header.

Trending

- Horizontally scroll through a set of different dishes and their corresponding cuisines and filter tags in this main Trending section. This is the primary way for users to start the simple task workflow of selecting a dish to cook from a particular cuisine, by first tapping on a cuisine to explore dishes in.

New Cultures for You

- Beneath the Trending section, the platform suggests a few new cuisines in the form of country flag icons that gently nudge the user to explore (ones that they have not cooked a dish in yet). Click on any of these flag icons to be taken to that country cuisine's page where users can explore and select different dishes. This is the main other way for users to start the simple task workflow.

Country Cuisine Page

- After selecting a country from any of the above starting points, users can view a list and preview of recipes under that cuisine on a country's cuisine page. Scroll through the list of featured recipes to view all options for recipes in that cuisine.
- Users can see their status for that country at the top of the screen.
 - Number of dishes they have cooked of that cuisine
 - Whether or not they have earned a badge for that country
- Search for a specific recipe using the search bar at the top of the page, or click on the filter button next to the search bar to filter the list of recipes.

- Click on a specific recipe for more information.

Filter Recipes

- Select a difficulty level (easy, medium, hard), multiple potential dietary preferences (vegan / vegetarian, keto, low cholesterol, low calorie, gluten free, dairy free), and multiple potential other additional filters (<30 minutes, kid friendly, fan favorite) within a given cuisine.
- Click on the "Search" button at the bottom to query for all recipes in that cuisine that match the selected filters.

Recipe Page

- Once you have clicked on a recipe, you can view all of its information, including a photo, difficulty level, time required, servings, ingredients, and instructions.
- Once you have cooked a recipe, you can click on the photo icon in the bottom right corner. That allows you to to share a photo of the dish you've cooked to your feed.
 - You can add a caption, link the photo to a badge you've earned, and tag people.
- Last but not least, you are taken to a "Congratulations!" page for earning / progressing on a new badge.

Friends

- Click on the "7 friends" text to the left of the user's profile picture on the header to view a list of all friends on the platform. Each friend's profile is accompanied by a profile picture and the number of badges they have earned, as well as a "New post!" notification next to their profile name for recently shared dishes.
- Next, click into a specific friend's profile to view all of their historical posts in a grid view, and basic information on their friends and badges.

Profile

- Click on your own profile picture in the very top right of the Home screen to access all personal historical posts in grid view, as well as an overview of the number of posts, friends, and badges earned.

My Passport

- This unique page displays the collection of different country badges that users can earn through cooking dishes on the app! On initial render, all possible badges (unowned and earned) show up in rows. Click on any earned (colored in) badge to view that country cuisine's page.
- Uncheck the "show unowned" box so that only badges the user has earned are displayed.
- Search for a specific country badge in the top search bar.

My Feed

- This social page allows users to vertically scroll through recently shared dishes that their friends on the app cooked and posted. Each post is accompanied by the friend's profile and caption, a timestamp of when it was shared, the country that cuisine falls under, and options to like, comment, and reshare the post.

Limitations

Our prototype has the following limitations:

- Users can open their profiles, but they cannot interact with them.
 - We decided not to include this functionality because it is not related to any of our three main tasks.
- Users can open their feeds, but they cannot interact with all the posts.

- One of our main tasks does require interaction with the social component of the app; however, it involves clicking on “friends” on the top left. Therefore, the feed functionality is not directly related to this task.
- Not all of the countries and cuisines displayed are clickable.
 - This would require adding a significant amount of screens to our medium-fi prototype, which we plan to save for the high-fi prototype.
- Users cannot actually use the camera to take photos real-time.
 - Implementing this functionality would require us connecting the Figma prototype to a device camera, which would be quite complicated, since the Figma merely simulates using a device.

Hard-Coded Features

The following features are hard-coded into our prototype:

- The result of filtering dishes does not rely on an actual algorithm.
 - In order to implement an algorithm that outputs certain dishes based on distinct features for every single possible input, we would have had to design and train a working model. However, we don't have access to an actual database of recipes with tagged filters.
- Which badges have been acquired, which are in progress, and which have not been started cannot be changed by the user.
 - We did not allow users to dynamically change these features because they would have to actually go through the process of cooking and logging completed dishes in real life in order to make progress in the app.
- The number of friends the user has, as well as their friends' profiles, posts, and comments, is already set.
 - We did not create a database of profiles yet, since this is the medium-fi prototype stage.
- The different cuisines available to select recipes from are limited to a set amount.

- We have not created a database containing a wide variety of recipes, so we included a specific set in order for medium-fi prototype users to get an idea of what the functionality would look like.

Wizard of Oz Features

The following features represent “Wizard of Oz” functionalities in our prototype:

- The user has already automatically made progress on cooking dishes and progressing in different cuisines.
- The user has already collected a number of badges in their FoodDex.
- The user already has friends they have connected to in their network.

The three features listed above are “Wizard of Oz” because we wanted prototype testers to see what FoodDex would be like once they had used the app for a while, rather than having them start from scratch and spend time simulating progress.

- A photo of completed tacos automatically shows up when you click the camera to log a photo of a new dish.

The feature above is “Wizard of Oz” because our Figma prototype simulates a device but is not actually connected to a device with a camera.