

Cookbait

Group 13

Project Specification Document

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1) PROBLEM STATEMENT

In the hustle and bustle of the life of a millennial, there is often little time to maintain a fully stocked fridge.

Which one of us hasn't been in a situation where a hasty cup of coffee served as the substitute for a nutritious and hearty breakfast just because we didn't have the right ingredients. Or more so, we didn't know what we could make with the available ingredients. Ever so often, we are in situations where we even have the ingredients but are unable to come up with the right dish to cook.

Enter COOKBAIT – A Recipe Suggestion App, that asks the user for the ingredients readily available to them, and suggests some easy to make recipes.

The purpose of Cookbait is to aid working professionals (and all others with messed up shopping schedules :p) in eating right.

2) KEY FEATURES

Implementation

We're creating an app that takes the list of ingredients you have and then displays a list of all the recipes for all the dishes that can be prepared with those.

Descending order of matching ingredients

After inputting the ingredients, the results will be listed in decreasing order of the number of matches our database discovered for the ingredients.

Providing follow-along videos

In addition to the recipe, it will also include a link to a video, preferably one on YouTube, so that the user can follow the recipe in real time.

Comment after verifying name, email with regex

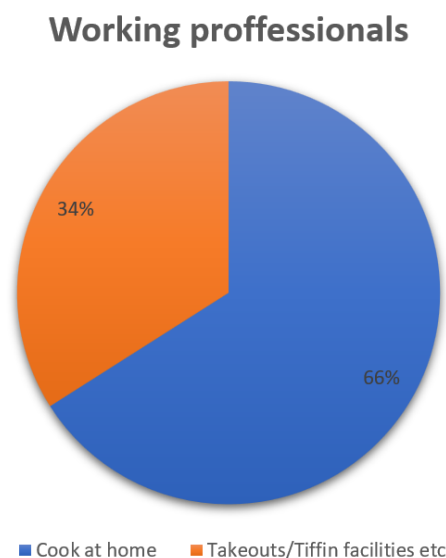
Every recipe tab would have a comment area that would act as a platform for users to debate or critique our mouthwatering dishes.

3) APP UTILITY

According to a survey by Cookpad, a platform empowering homecooks all over the world, the majority of working professionals in India cook their meals every day. Cookpad, published a thorough review of home cooking trends in India. According to the study, 75% of the respondents learnt how to cook at a young age either because they enjoy cooking or because they were living away from home.

Contrary to the conventional notion, a startling 66% of the working professionals cook for themselves everyday. With our lifestyle becoming busier day by day, Cookbait can make this chore easier by eliminating the need to look up recipes just to end up realizing that you don't have all of the required ingredients.

Cookbait will help busy individuals live a healthier and robust lifestyle by instantly suggesting food choices from the available ingredients. Since these meals are prepared by the user, it makes them more likely to choose healthier options.



4) WHAT MAKES OUR SOLUTION DIFFERENT?

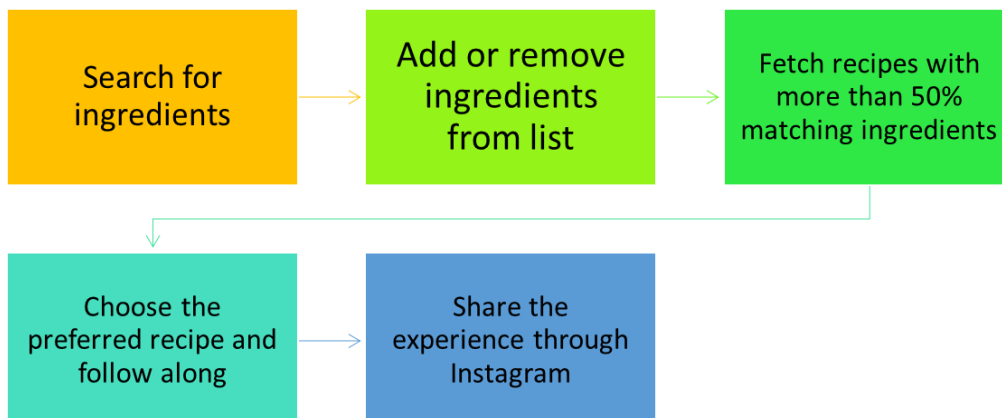
Existing applications catering to a similar requirement do not include Indian recipe options and are available in the form of a website but not as a mobile app. An app is more easily accessible than a website and therefore more handy. Secondly, the available options are slightly difficult to use.

Cookbait is oriented towards the Indian public and has a user-friendly interface.

- The app does not need users to sign up and may be used by anybody, anywhere.
- None of the existing applications or websites allow user to write review or comment on a recipe
- We allow users to contribute recipes to the current library, which is subsequently made available to other users, after verification.

5)USER FLOW

- Once the user opens the Home page, they are presented with a search bar and different categories of ingredients.
- The user can either enter the ingredient in the search bar and then select from the resulting list of ingredients or select a category of ingredients and choose specific ingredients from that.
- Either way the selected ingredient gets added to a list maintained by the app.
- The user can access the list at any time through the homepage and can also remove an ingredient from it.
- After the user is done choosing all the ingredients, the app displays all the recipes in the order of % match of ingredients i.e. starting with maximum possible match in ingredients while maintaining a minimum matching threshold of 50%.
- The user can browse through recipes and choose one as per their preference. The app will then display the selected recipe along with the estimated cooking time and a video link in case the user wants to follow along.
- It also displays a link to cookbait's instagram page to increase user engagement.



BASIC WIREFRAMES

Cookbait

Search Ingredients...

Vegetables

Fruits

Olis

List of entered items

Submit

Cookbait

>90% match

>80% match

←

Recipe Name

Photo

Ingredients

Ingredients

Procedure

Share your dish

6) ADDITIONAL FEATURES

Add a recipe:

If a user wishes to add to our extensive collection of recipes, they may do so by listing the necessary ingredients, outlining the steps in detail, and preferably adding a video link.

Review and Comment Section:

After utilizing a certain recipe, if a user discovers that it is inaccurate in any way, he may comment about it in the review area, and the recipe will be amended if an admin check reveals any discrepancies.

Suggest Ingredient:

When adding ingredients, if a user discovers that any of the ingredients are missing from our database, he or she will have the option to add them, and after an admin check, he or she will be informed as to whether or not those items have been included.

Posting Bytes:

When a person is passionate about a recipe or meal and wants to share it with the cookBait Community, he may do so by uploading a Byte, a cute image or video that expresses his enthusiasm for that specific cuisine.

Sharing a recipe:

The user may share a dish he loves on any other social media platform by utilizing a link that takes him straight to our recipe in the app.

Add to favorites:

By highlighting a recipe, the user may add it to his favorite area. The recipes will display on the home screen in the “Favorites” section of the menu bar.

Another innovative feature:

ML Based recipe search feature: Instead of manually typing all the ingredients available with the user he can just click an image of the ingredients altogether. A ML Model will separately detect all the ingredients and then the search would work the same way.

This would save some time and would make the process easier.

(Inspired by Google Lens!)

7) TECH STACK USED:

- We aim to use Flutter SDK for developing the frontend of our app and one of the following Database Management Systems : MySQL or Firebase.
- Frameworks: React, Django. We plan to make a decision on the framework after analyzing our familiarity with it, the volume of the data required and how it is to be used.
- The recipes will be scraped from cooking websites by using Python.