Drink Recipe Generator

Self link:
Status: Review ▾
Reviewers:
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Tracking bug link:
Last major revision: 2024-02-16

Objective

The objective of the Drink Recipe Generator project is to enhance the overall culinary experience by providing users with complimentary drink recipes tailored to their available ingredients. This feature will complement the existing main meal recipe generation functionality, allowing users to generate beverage options that complements their selected meals.

Background

Traditional recipe apps often overlook drink pairings, focusing solely on meal recipes. This project aims to change that. By asking users for their available ingredients, like fruits and juices, we'll suggest complementary drink recipes.

We're leveraging Gen AI to personalize these suggestions, making them unique to each user. With visually appealing images accompanying each recipe, we're enhancing the cooking experience and filling a gap in culinary apps.

Requirements

User Input: Users should be able to input the beverage components they have available, such as fruits, water, milk, juices, etc.
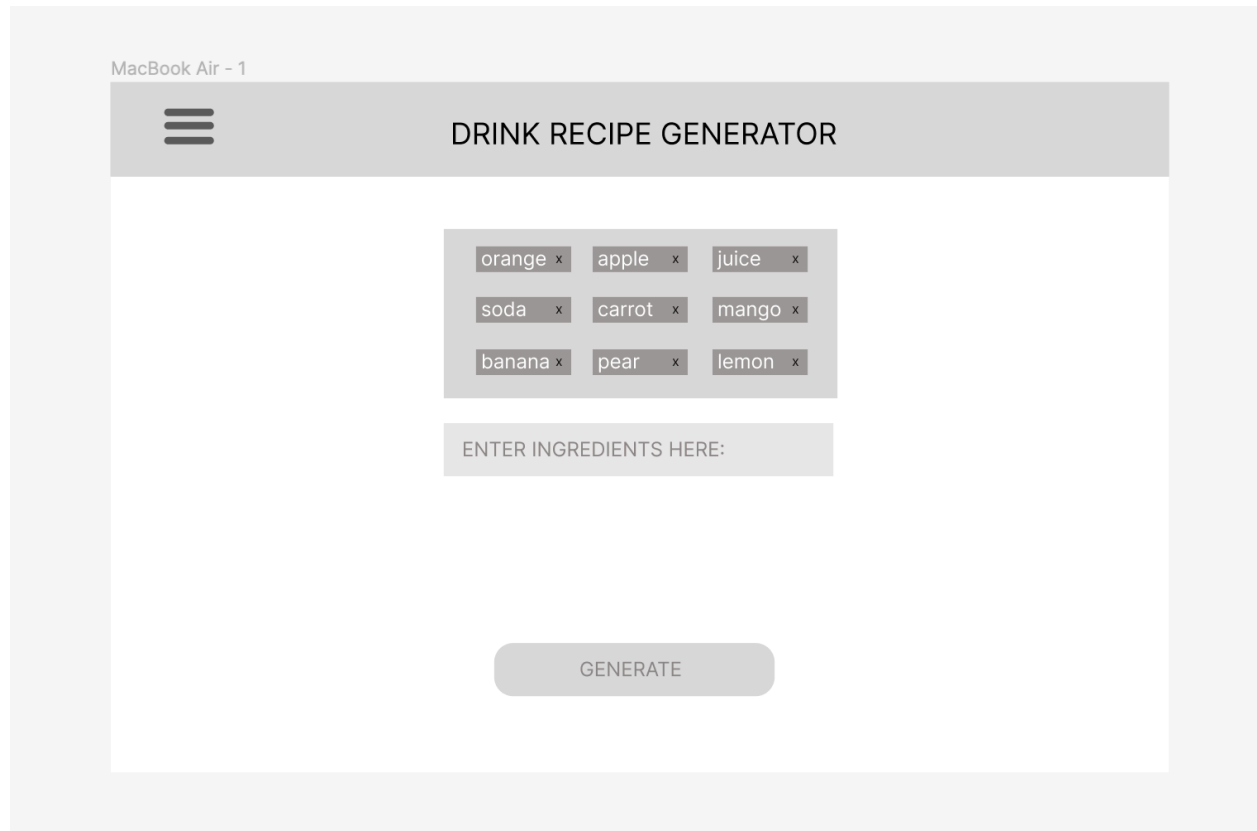
Database Query: The system should query the database based on the user's input to retrieve relevant complementary drink recipes.

Recipe Generation: Utilize Gen AI to generate recipe variations based on user input and database queries. Output textual drink recipes accompanied by images for each recipe variation.

Generate Button: Implement a "Generate" button that initiates the recipe generation process upon user input.
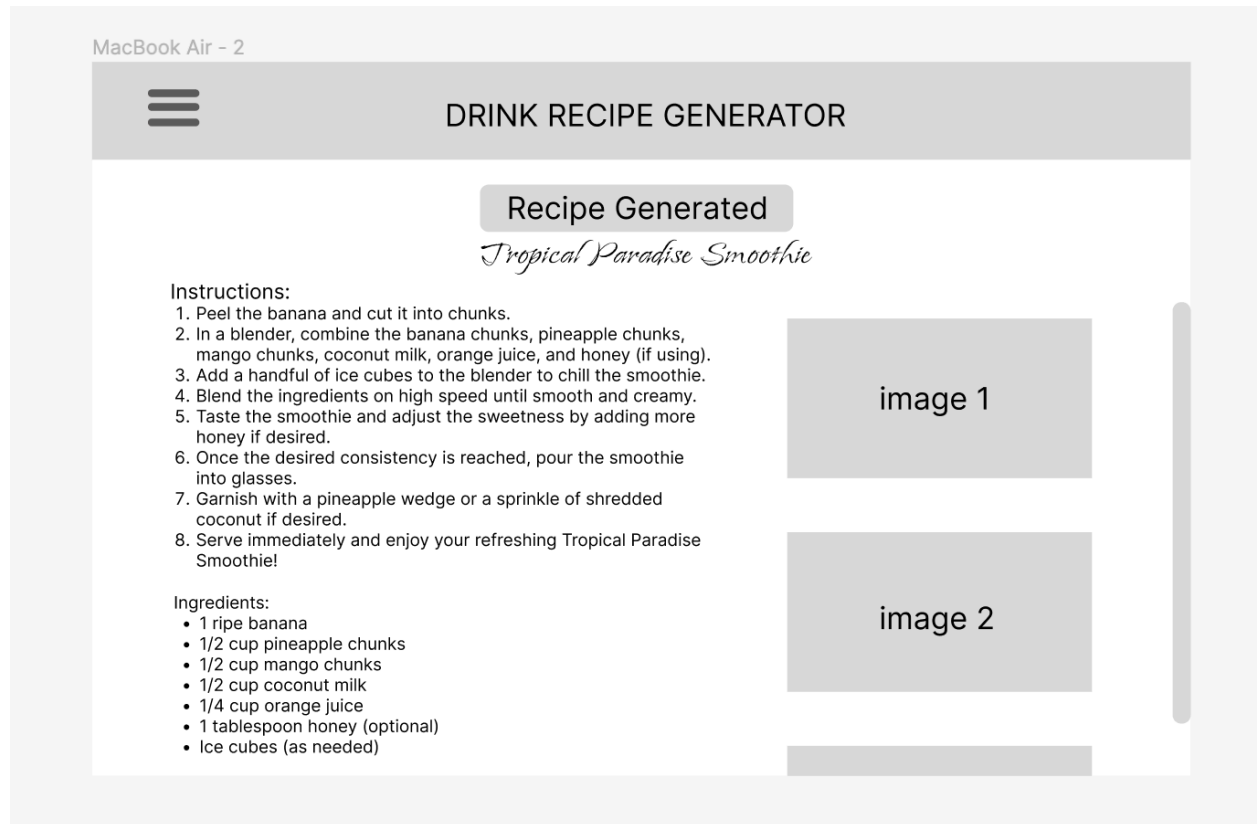
Design

The Drink Recipe Generator will have a user-friendly interface and an input field for adding ingredients like fruits, water, milk, and juices.

Users can easily remove ingredients by clicking the "x" button next to each one. If they don't like a recipe, they can click "Generate" for a new one.

This design makes it simple for users to add ingredients and find recipes they like, improving the overall experience of using the Drink Recipe Generator.

DRINK RECIPE GENERATOR

Recipe Generated

Tropical Paradise Smoothie

Instructions:
1. Peel the banana and cut it into chunks.
2. In a blender, combine the banana chunks, pineapple chunks, mango chunks, coconut milk, orange juice, and honey (if using).
3. Add a handful of ice cubes to the blender to chill the smoothie.
4. Blend the ingredients on high speed until smooth and creamy.
5. Taste the smoothie and adjust the sweetness by adding more honey if desired.
6. Once the desired consistency is reached, pour the smoothie into glasses.
7. Garnish with a pineapple wedge or a sprinkle of shredded coconut if desired.
8. Serve immediately and enjoy your refreshing Tropical Paradise Smoothie!

Ingredients:
- 1 ripe banana
- 1/2 cup pineapple chunks
- 1/2 cup mango chunks
- 1/2 cup coconut milk
- 1/4 cup orange juice
- 1 tablespoon honey (optional)
- Ice cubes (as needed)

image 1

image 2

Alternatives Considered

Meal-Based Drink Pairing: Users can input their meal, and the system generates a drink recipe that compliments it perfectly. This makes dining experiences more enjoyable and encourages users to experiment with different food and drink combinations.

Manual Drink Name Input: Another idea is to let users type in the name of the drink they want directly. This would be handy for users that have specific drinks in mind and just want the recipe straight away.

Timeline

Date	Task	Eng Estimate (days)	Status
02/13/24	Define project requirements, design user interface, and establish database integration.	25 day	In Progress ▾
03/09/24	Implement Gen AI integration, refine recipe generation algorithms, and develop output generation functionality.	30 days	Not Started ▾
03/08/24	Conduct comprehensive testing, gather user feedback, and iterate on features for optimization.	20 days	Not Started ▾

Date	Task	Eng Estimate (days)	Status
03/28/24	Finalize documentation, prepare for deployment, and launch the Drink Recipe Generator feature.	30 days	Not Started ▾

Prompts Used

Here are some prompts I used to generate the contents for my design doc:

Objective:
- Describe the purpose of the Drink Recipe Generator project and its intended impact on users' culinary experiences.
- How will the Drink Recipe Generator complement existing main meal recipe generation functionality?

Background:
- Provide context on the limitations of traditional recipe apps regarding drink pairings.
- Explain how the project aims to address these limitations by leveraging user input and Gen AI.

Requirements:
- Specify the essential functionalities required for the Drink Recipe Generator, such as user input, database querying, recipe generation, and the "Generate" button implementation.
- How will the system handle user input of beverage components? What database querying mechanisms will be used?

Design:
- Detail the user interface and interaction flow of the Drink Recipe Generator.
- Describe how users will add ingredients and remove them, and how the "Generate" button will function.

Alternatives Considered:
- Discuss alternative approaches considered during the planning phase, such as Meal-Based Drink Pairing and Manual Drink Name Input.
- Explain the advantages and disadvantages of each alternative.

Timeline:
- Outline the project's timeline, including key tasks, estimated durations, and current status updates.
- Specify the progress and status of each task, including any tasks that are in progress or not yet started.