

Recipe Ideas Report

Title: Cookify - Turn your ingredients into delicious meals.

Live Demo: https://codesandbox.io/p/github/dhanyadiya/Food_recipe/main?embed=1

Preview: <https://mp2xqz-3000.csb.app/>

Introduction

Cookify is a smart, web-based recipe discovery platform designed to make cooking more exciting and convenient. It allows users to explore a wide range of meal ideas by simply entering available ingredients, helping them decide what to cook with what they already have. The platform integrates seamlessly with TheMealDB API, a free and reliable public API that provides rich recipe data including meal names, images, and preparation methods.

With its interactive and visually engaging interface, Cookify ensures a smooth user experience across devices. Users can search for recipes, view detailed ingredient lists, and follow clear cooking instructions — all within a few clicks. The application not only enhances the joy of cooking but also saves time by offering personalized and dynamic recipe recommendations in an easy-to-use format.

Objective

The main objective of Cookify is to simplify the cooking experience by providing users with:

- Easily access a wide variety of recipes.
- Recipe search functionality based on ingredients.
- Visually rich presentation of meal details.
- A responsive and user-friendly interface.

Technologies Used

- React.js
- HTML5 & CSS3
- JavaScript

- TheMealDB API
- Git & GitHub

System Architecture

Frontend (React App): The frontend of Cookify is built using React.js, providing a smooth and dynamic user interface. Users interact with a clean and intuitive layout where they can easily navigate between pages, search for recipes, and view detailed meal information. React's component-based structure ensures reusability and efficient rendering for a seamless user experience.

API Integration: Cookify integrates with TheMealDB API to fetch real-time recipe data. The API is accessed through HTTP requests, allowing the application to retrieve information such as recipe names, ingredients, preparation steps, and images. This dynamic integration ensures that users always receive updated and diverse recipe options.

Recipe Display: Fetched recipes are displayed in a visually appealing card format, showing the meal image, name, and a button to view more details. This design approach enhances readability and helps users quickly browse through different recipes. When a user selects a recipe card, they are directed to a detailed page containing ingredients and cooking instructions.

Search Functionality: Cookify includes a powerful search feature that allows users to find recipes by typing ingredient names. For example, entering “chicken” will fetch all related dishes containing chicken. This functionality simplifies recipe discovery and ensures users can find meals tailored to their preferences or available ingredients.

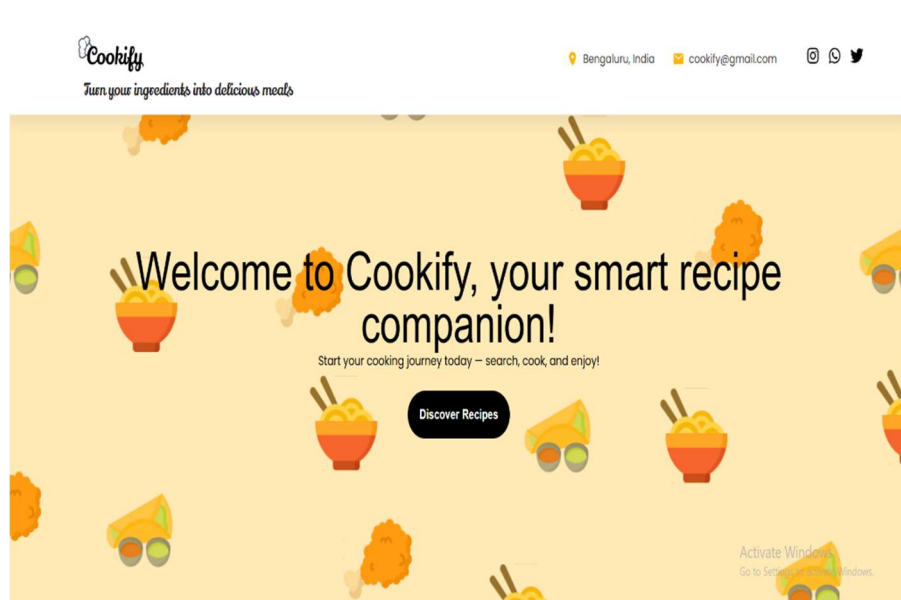
Workflow

1. User visits the Cookify Home Page.
2. Navigates to Get Recipe Page.
3. Enters a ingredient (e.g., “chicken”) and clicks Search.
4. The system calls the TheMealDB API.
5. Recipes related to “chicken” are fetched and displayed as cards.

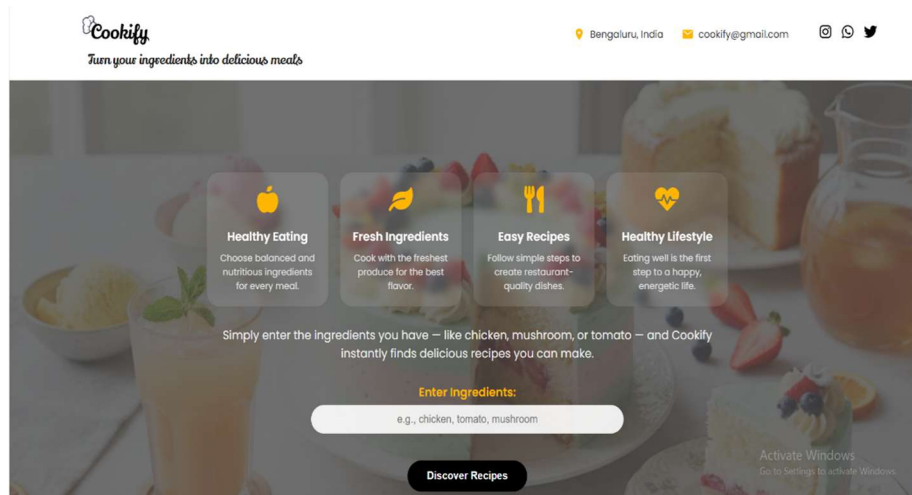
6. User clicks a recipe card to view ingredients and cooking steps.

Output Screenshots

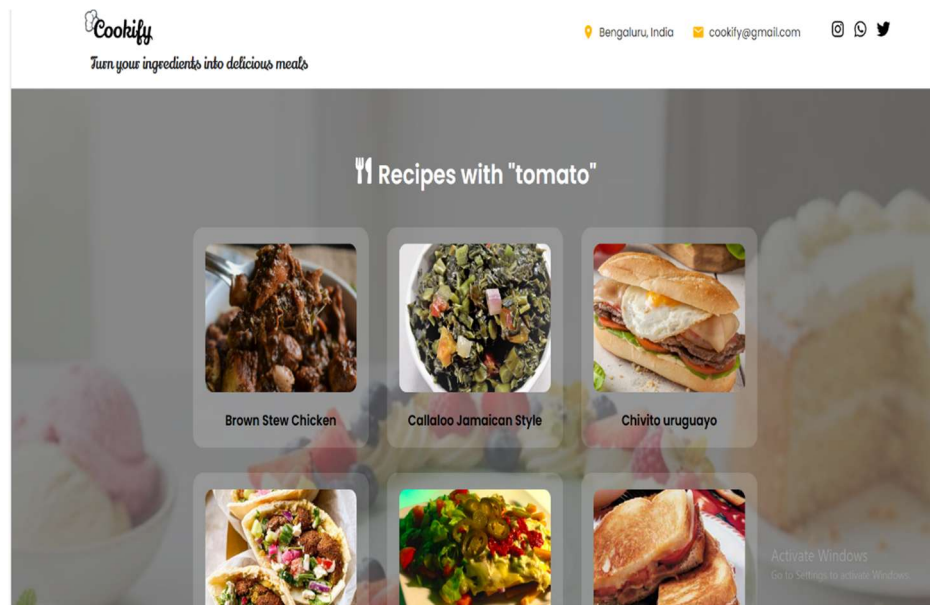
1. Home Page



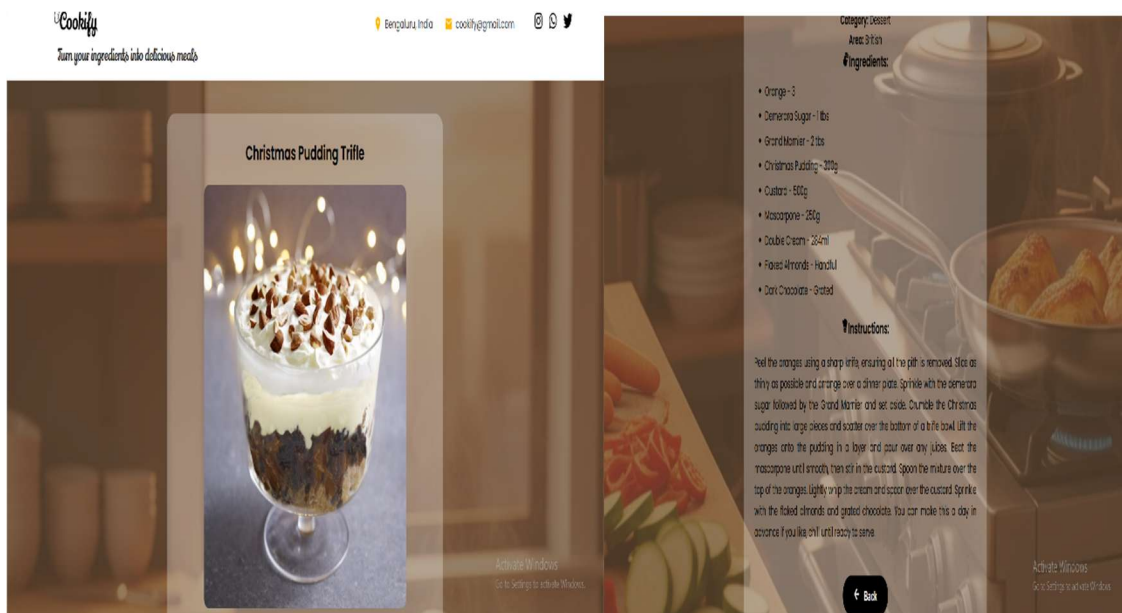
2. Recipe Search page



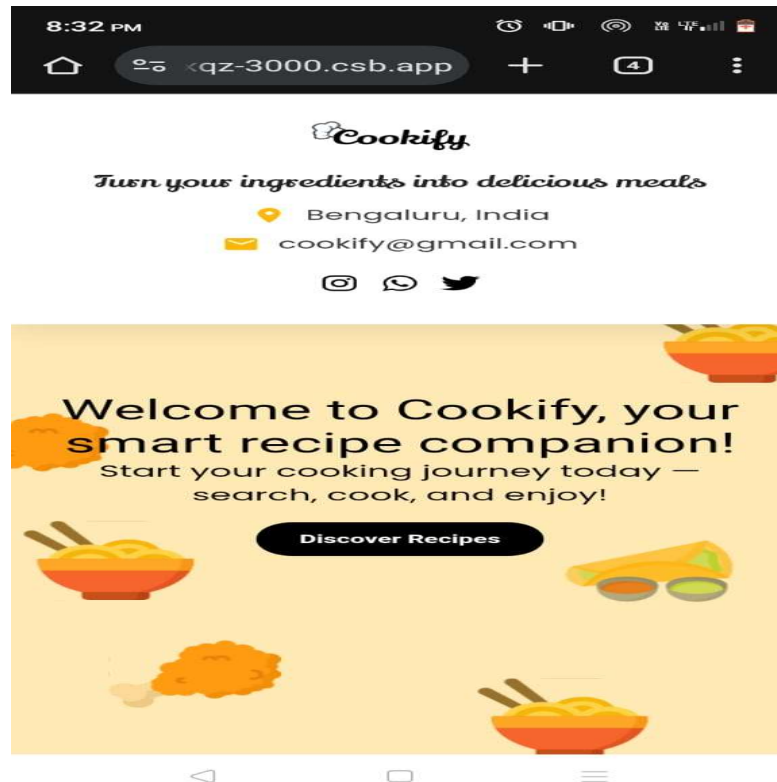
3. Meal page



4. Meal instruction page



5. Mobile Responsive screenshots



Conclusion

Cookify is an efficient and user-friendly recipe web application that simplifies the process of discovering new and exciting meals. By allowing users to search for recipes based on ingredients, it eliminates the hassle of deciding what to cook. Its clean and responsive design ensures a smooth browsing experience across all devices, making it convenient for users to explore meal options anytime and anywhere.

Through the integration of TheMealDB API, Cookify delivers real-time recipe data, complete with ingredients, preparation steps, and appealing visuals. The project showcases strong front-end development skills, seamless API integration, and an understanding of modern web design principles. Overall, Cookify not only enhances the user's cooking experience but also demonstrates the effective use of technology to create an engaging and practical web solution.