**COOKBOOK:** **YOUR VIRTUAL KITCHEN ASSISTANT**

**(React Application)**

**TEAM LEADER : SUBASH.K (**[**subash07022000@gmail.com**](mailto:subash07022000@gmail.com)**)**

**TEAM MEMBERS : M.SURYA(**[**Surya0172002@gmail.com**](mailto:Surya0172002@gmail.com)**)**

**R.TAMILARASAN (**[**arasan12082005@gmail.com**](mailto:arasan12082005@gmail.com)**)**

**M.SRIRAM (**[**srisriram1857@gmail.com**](mailto:srisriram1857@gmail.com)**)**

**S.SIRANJEEVI(**[**Sanjaysiranjeevi13@gmail.com**](mailto:Sanjaysiranjeevi13@gmail.com)**)**

**INTRODUCTION:**

CookBook is a revolutionary web application designed to change the way you discover, organize, and create recipes. It caters to both novice and professional chefs, offering a user-friendly interface, robust features, and a vast collection of inspiring recipes.

**PROJECT OVERVIEW :**

Welcome to the forefront of culinary exploration with CookBook!

Our cutting-edge web application is meticulously crafted to transcend the boundaries of culinary experiences, catering to the tastes of both passionate cooking enthusiasts, and seasoned professional chefs. With an emphasis on an intuitive user interface and a robust feature set, CookBook is poised to revolutionize the entire recipe discovery, organization, and creation process.

Designed with a commitment to user-friendly aesthetics, CookBook immerses users in an unparalleled culinary adventure. Navigate seamlessly through a vast expanse of culinary inspiration with features such as dynamic search effortlessly.

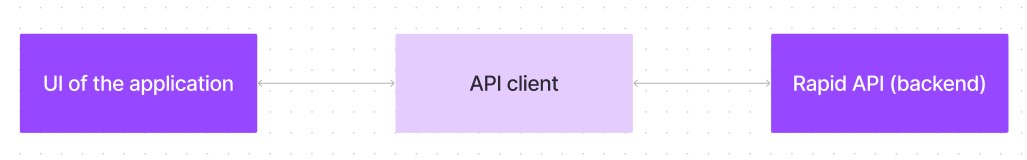
From those taking their first steps in the kitchen to seasoned professionals, CookBook embraces a diverse audience, nurturing a dynamic community united by a shared passion for the art of cooking. Our vision is to reshape how users interact with recipes, presenting a platform that not only sparks inspiration but also fosters collaboration and sharing within the vibrant culinary community.

Embark on this gastronomic journey with us, where innovation seamlessly intertwines with tradition. Every click within CookBook propels you closer to a realm of delicious possibilities. Join us and experience the evolution of recipe management, where each feature is meticulously crafted to offer a glimpse into the future of culinary exploration. Elevate your culinary endeavours with CookBook, where every recipe becomes an adventure waiting to be discovered and savoured.

**PURPOSE :**

Sarah rummaged through the fridge, the fluorescent light casting an unappetizing glow on the wilting lettuce and forgotten container of yogurt. Dinnertime with her teenage son, Ethan, was fast approaching, and her usual creative spark was missing. "What are we even going to eat?" Ethan groaned from the doorway, his phone glued to his ear. Suddenly, a memory surfaced. Her friend, Maya, had been raving about a new recipe platform called CookBook. Intrigued by the promise of "elevating culinary endeavors" and "a realm of delicious possibilities," Sarah grabbed her laptop. "Hold that thought, Ethan," she declared, a flicker of hope igniting in her eyes. "We might just be about to embark on a delicious adventure."

**TECHNICAL ARCHITECTURE:**



The user experience starts with the CookBooks web application's UI, likely built with a framework like React or Vue.js for a smooth, single-page experience. This UI interacts with an API client specifically designed for CookBooks. This client handles communication with the backend, but with a twist: it leverages Rapid API, a platform providing access to various external APIs. This suggests CookBooks might integrate external data feeds or functionalities through Rapid API, enriching the user experience without building everything from scratch.

**PROJECT GOALS AND OBJECTIVES:**

The primary goal of CookBook is to provide a user-friendly platform that caters to individuals passionate about cooking, baking, and exploring new culinary horizons. Our objectives include:

* **User-Friendly Experience:** Create an interface that is easy to navigate, ensuring users can effortlessly discover, save, and share their favourite recipes.
* **Comprehensive Recipe Management:** Offer robust features for organizing and managing recipes, including advanced search options.
* **Technology Stack:** Leverage modern web development technologies, including React.js, to ensure an efficient, and enjoyable user experience.

**FEATURES OF COOKBOOKS:**

* **Recipes from the MealsDB API**: Access a vast library of international recipes spanning diverse cuisines and dietary needs.
* **Visual recipe browsing:** Explore recipe categories and discover new dishes through curated image galleries.
* **Intuitive and user-friendly design:** Navigate the app effortlessly with a clean, modern interface and clear navigation.
* **Search feature:** various dishes can be accessed easily through the search feature.

**PRE-REQUISITES:**

* **Node.js and npm**:

Node.js is a powerful JavaScript runtime environment that allows you to run JavaScript code on the local environment. It provides a scalable and efficient platform for building network applications.

* **React.js**:

React.js is a popular JavaScript library for building user interfaces. It enables developers to create interactive and reusable UI components, making it easier to build dynamic and responsive web applications.

* **HTML, CSS, and JavaScript**: Basic knowledge of HTML for creating the structure of your app, CSS for styling, and JavaScript for client-side interactivity is essential.
* **Development Environment**: Choose a code editor or Integrated Development

Environment (IDE) that suits your preferences, such as Visual Studio Code, Sublime Text, or WebStorm.

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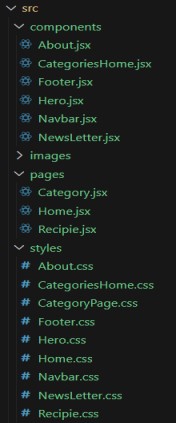
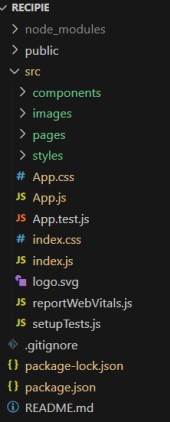
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In this project, we’ve split the files into 3 major folders, *Components, Pages and Styles.* In the pages folder, we store the files that acts as pages at different url’s in the application. The components folder stores all the files, that returns the small components in the application. All the styling css files will be stored in the styles folder.

# Project Flow:

**Milestone 1: Project setup and configuration.**

* **Installation of required tools**:

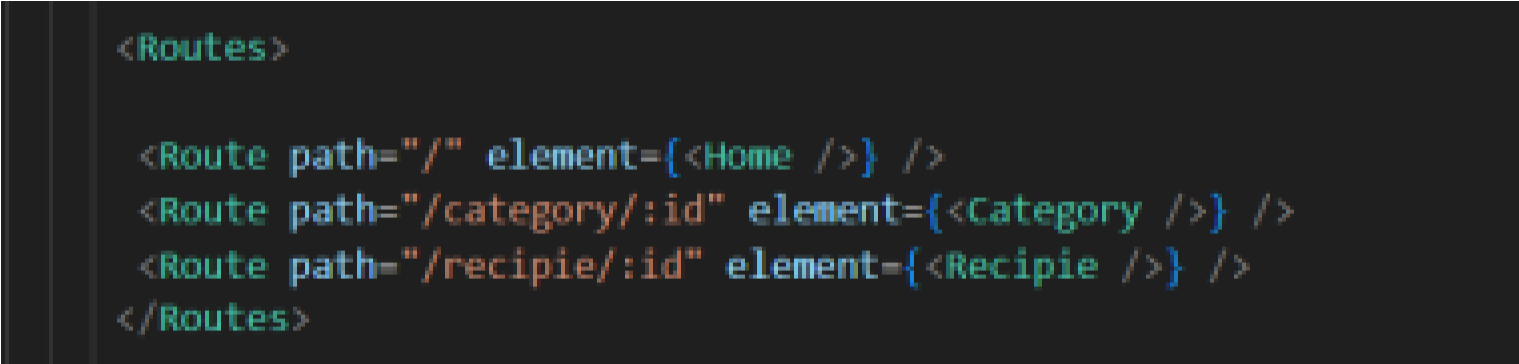
To build CookBook, we'll need a developer's toolkit. We'll use React.js for the interactive interface, React Router Dom for seamless navigation, and Axios to fetch news data. For visual design, we'll choose either Bootstrap or Tailwind CSS for pre-built styles and icons.

Open the project folder to install necessary tools, In this project, we use:

* React Js
* React Router Dom
* React Icons
* Bootstrap/tailwind css
* Axios

**Milestone 2: Project Development**

* Setup the Routing paths
* Setup the clear routing paths to access various files in the application.



* Develop the Navbar and Hero components
* Code the popular categories components and fetch the categories from ***themealsdb***

Api.

* Also, add the trending dishes in the home page.
* Now, develop the category page to display various dishes under the category.
* Finally, code the recipe page, where the ingredients, instructions and a demo video will be integrated to make cooking much easier.

**IMPORTANT CODE SNIPS:**

* **Fetching all the available categories**

Here, with the API request to Rapid API, we fetch all the available categories.



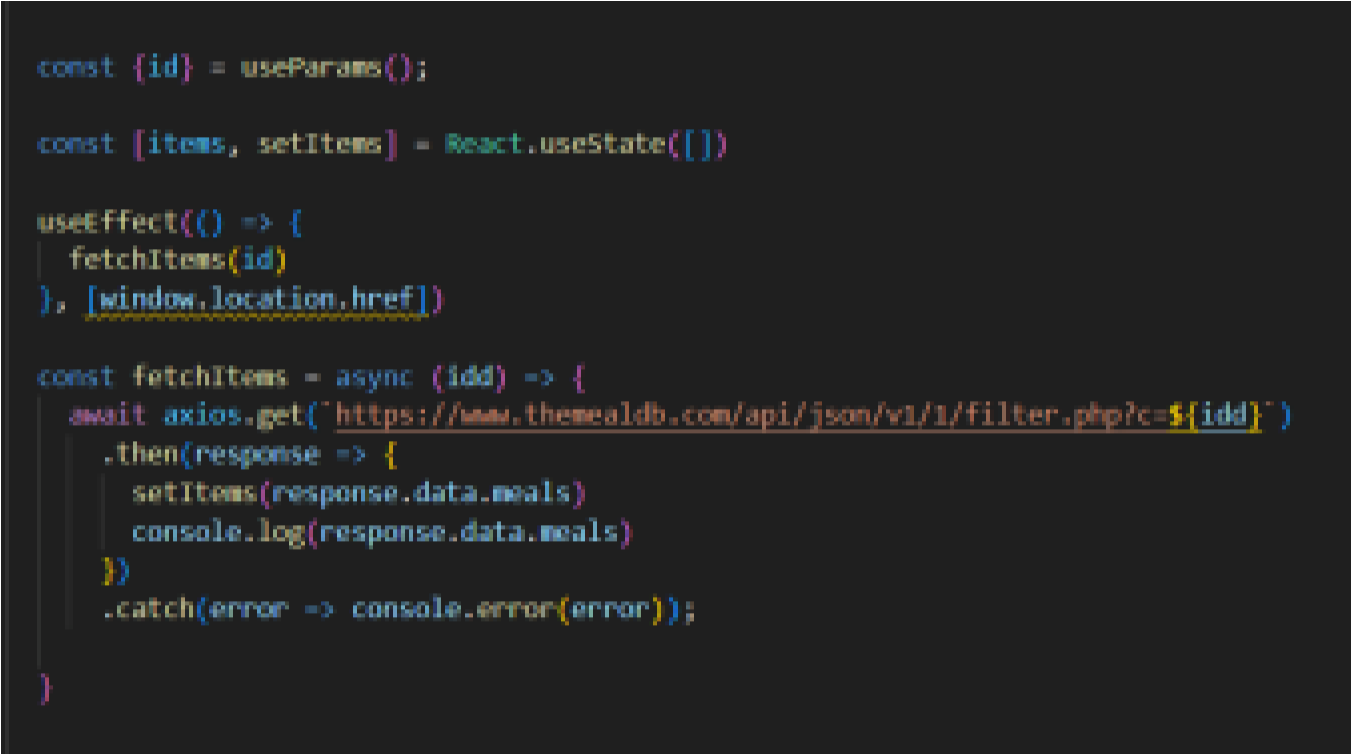
This code snippet demonstrates how to fetch data from an API and manage it within a React component. It leverages two key functionalities: state management and side effects.

**PROCESSING API RESPONSE:**

The .then method is chained to the axios.get call to handle a successful response from the API. Inside the .then block, the code retrieves the categories data from the response and updates the React component's state using the setCategories function. This function, associated with the useState hook, allows for modification of the categories state variable. By calling setCategories(response.data.categories), the component's state is updated with the fetched list of meal categories.

* **Fetching the food items under a particular category**

Now, with the API request, we fetch all the available food items under the certain category.



➢ **Fetching Recipe details**

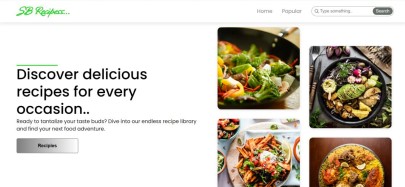
With the recipe id, we fetch the details of a certain recipe.



**USER INTERFACE SNIPS:**

* **Hero components**

The hero component of the application provides a brief description about our application and a button to view more recipes.



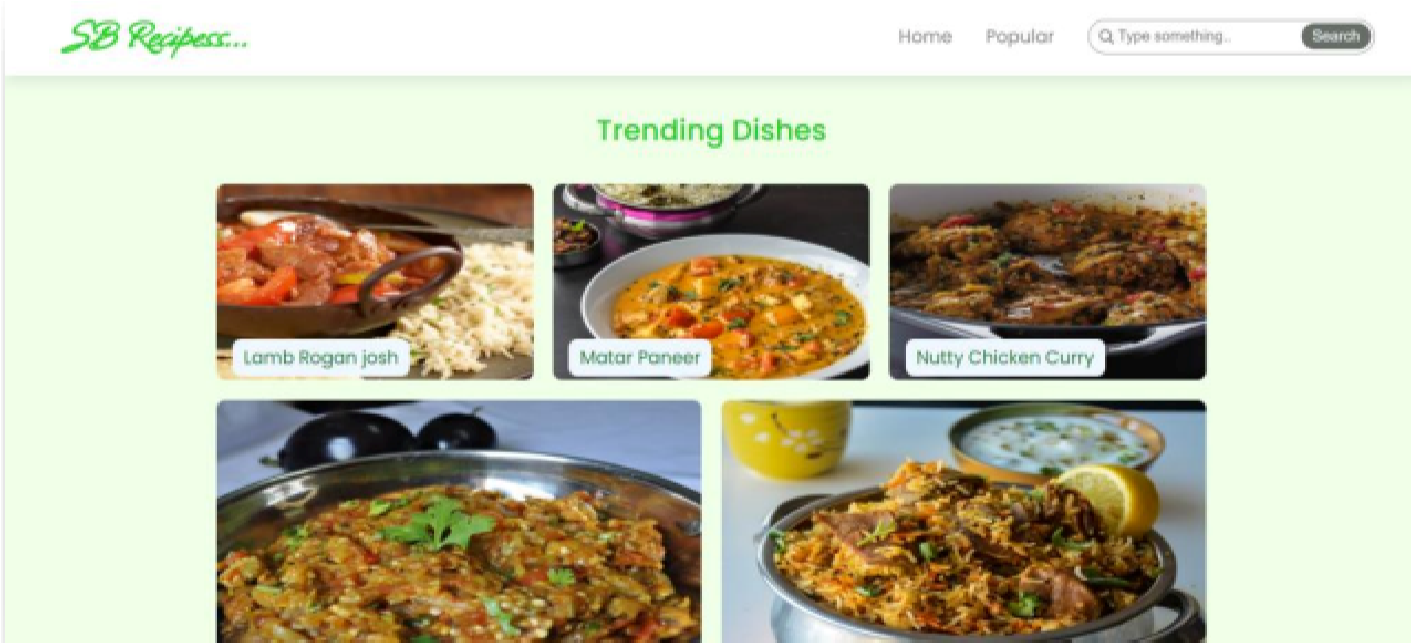
* **Popular categories**

This component contains all the popular categories of recipes..



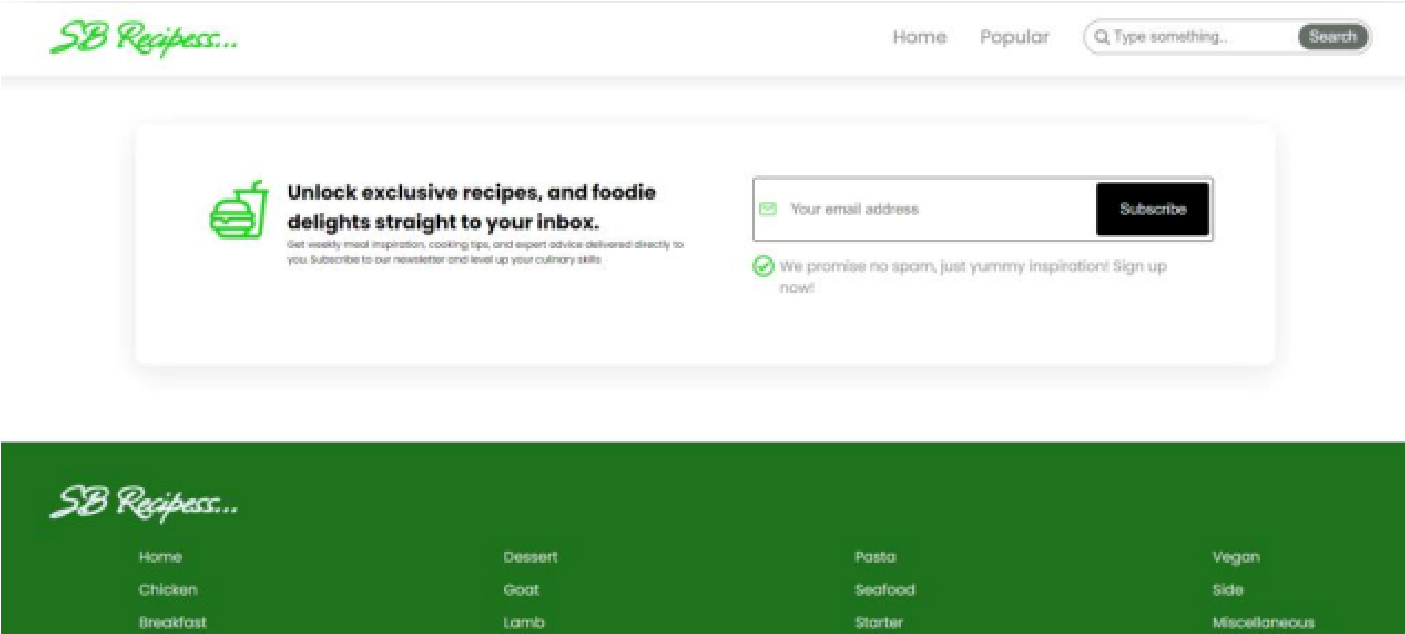
* **Trending Dishes**

This component contains some of the trending dishes in this application.



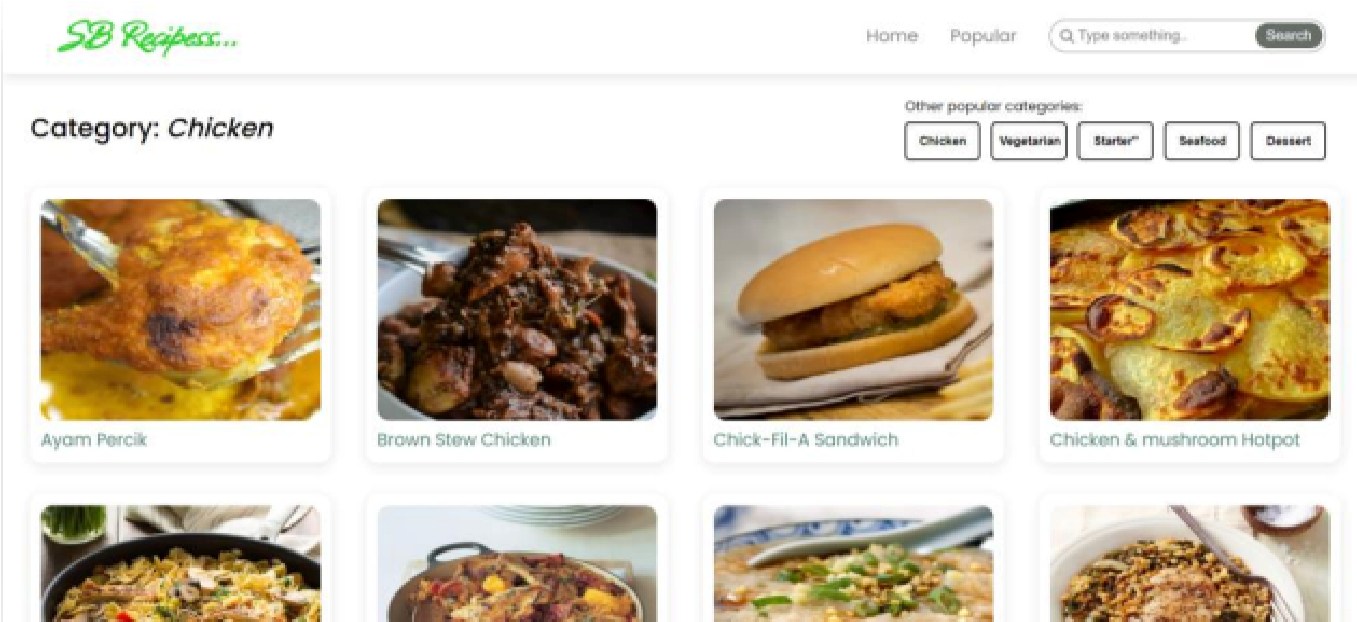
* **News Letter**

The news letter component provides an email input to subscribe for the recipe newsletters.



* **Category dishes page**

The category page contains the list of dishes under a certain category.



* **Recipe page**

The images provided below shows the recipe page, that includes images, recipe instructions, ingredients and even a tutorial video.

