

Recipe Search Component Documentation

Overview :

The Recipe Search Component is a React functional component that enables users to search for recipes by name and view their details. It provides real-time search suggestions and displays selected recipe details.

Features :

- **Real-time Search Suggestions:** Fetches matching recipes dynamically as users type.
- **Debounce Effect:** Reduces API calls by delaying the search execution.
- **Recipe Details Display:** Shows recipe name, image, ingredients, and instructions upon selection.

Requirements :

- React
- JavaScript
- CSS
- JSON

Dependencies :

- **react:** Uses the React library for component building.
- **useState:** Manages state variables for search input, suggestions, and selected recipe.
- **useEffect:** Handles side effects, such as fetching recipes with a debounce effect.

Functional Breakdown :

Recipe Data Handling -

- The component fetches an array of recipe objects from an API via the `fetchRecipes` function.

- Recipes include attributes such as id, name, image, ingredients, and instructions.

Search Functionality -

- Users enter a search query in an input field.
- If a query is provided, an API call is made after 500ms to fetch matching recipes.
- If no results are found, a message is displayed.

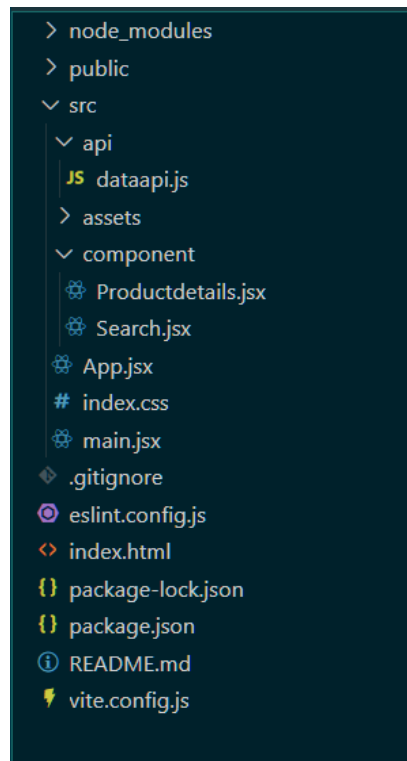
Manual Selection -

- Users can click on a recipe suggestion to select it.
- The selected recipe's details are displayed below the search input.
- Clicking a recipe clears the search input and hides suggestions.

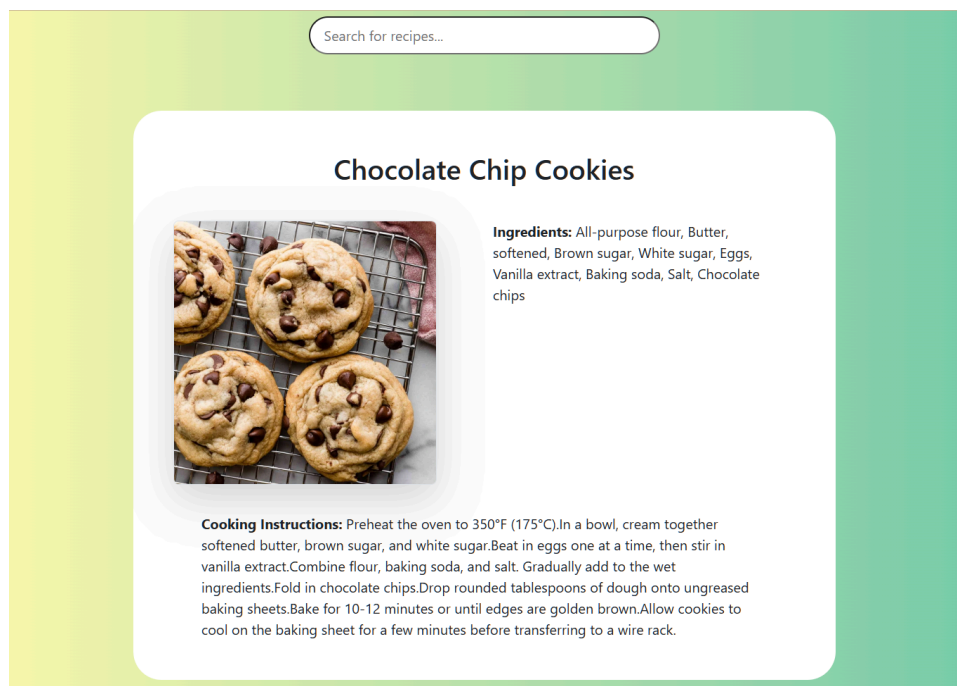
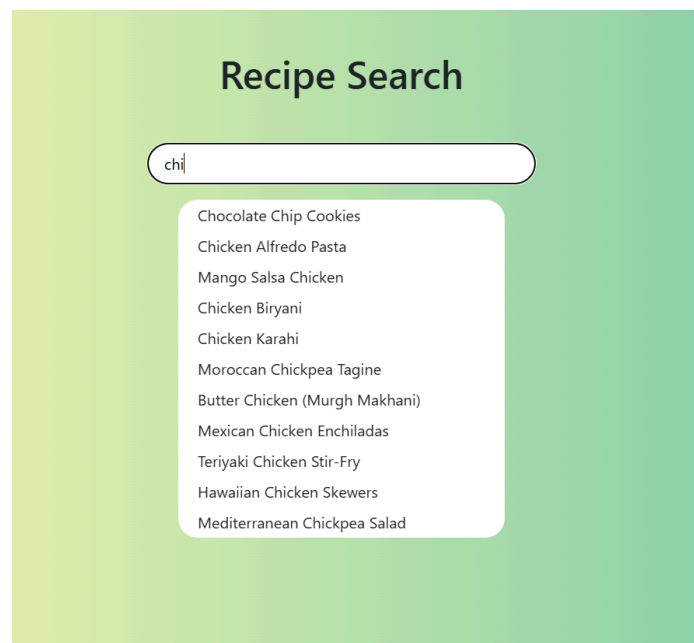
Event Handlers :

- **handleSuggestionClick(recipe):** Handles the selection of a recipe from the search suggestions.

Project Structure :



Output :



Conclusion :

The Recipe Search Component enhances user experience by providing an easy-to-use interface for finding and displaying recipes. It is modular and can be extended with additional features such as favorites, filters, and enhanced UI styling.