

Assignment Title: Recipe Search App using Edamam API with Material UI**Assignment Description:**

In this assignment, you will create a recipe search web application using React.js with the Edamam API for fetching recipes. The application will allow users to search for recipes based on ingredients, view recipe details, including ingredients and nutrition information, and display them in a visually appealing manner using Material UI components. Additionally, you will implement a modal component to display detailed information about each recipe and its nutritional content.

Assignment Requirements:

- Integration with Edamam API:** Utilize the Edamam API to fetch recipe data based on user input (ingredients). Implement functionality to search for recipes using ingredient keywords.
- Search Functionality:** Develop a search feature that allows users to enter ingredients and search for recipes containing those ingredients. Display search results in a visually appealing manner using Material UI components.
- Recipe Cards:** Render recipe search results as cards, each containing essential information such as recipe name, image, and a brief description. Clicking on a recipe card should open a modal displaying detailed information about the recipe, including ingredients and nutrition information.
- Modal Component:** Implement a modal component using Material UI to display detailed information about each recipe. The modal should include the recipe name, image, list of ingredients, and nutritional content (calories, protein, fat, carbohydrates, etc.).
- Responsive Design:** Design the recipe search app with a responsive layout using Material UI components to ensure compatibility and optimal user experience across various devices and screen sizes.
- Error Handling:** Implement error handling to gracefully handle any errors that occur during data fetching or processing. Display error messages to users if the API request fails or no search results are found.
- User Feedback:** Provide user feedback messages for successful recipe searches, loading indicators while fetching recipe data, and error messages for failed API requests or no search results.

Assignment Deliverables:

- Fully functional recipe search app** built with React.js, Material UI, and integrated with the Edamam API.
- Source code repository** containing all project files, including React components, CSS stylesheets, API integration code, and Material UI components.
- Documentation** detailing the project setup, installation instructions, key features, and usage guidelines.
- Presentation or demonstration** showcasing the assignment's functionality, including recipe search, modal display, and responsive design.

Submission Instructions:

- Submit the assignment source code and documentation** via the designated platform (e.g., GitHub, Google Drive).

- *Ensure that the documentation includes clear instructions on how to set up and run the project locally.*
- *Provide any additional information or insights gained during the development process.*

Note: This assignment aims to assess your proficiency in React.js development, API integration, user interface design using Material UI, and modal implementation. It will demonstrate your ability to build interactive web applications with dynamic data display and user-friendly components.