***Frontend Development with React.js Project Documentation for Cook Book***

* **Introduction**
* **Project Title**: Cook Book
* **Team Members**:

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* **Project Overview**
* **Purpose**:

Cook Book is a React-based web application designed to help users discover, organize, and create recipes easily.

* **Goals**:

Provide a seamless, user-friendly experience with features like recipe search, categorization, and integration with external APIs**.**

* **Architecture**
* **Component Structure:**
* **Components/ - Stores UI components like buttons, search bars, and recipe cards.**
* **Pages/ - Includes different pages like Home, Categories, and Recipe Details.**
* **Styles/ - Contains CSS files for styling.**
* **State Management:**
* **Uses use State and use Effect for local state handling.**
* **API data is fetched using Axios and stored in state.**
* **Routing:**
* **React Router Dom is used for navigation.**
* **Routes include:**
* **/ - Homepage**
* **/category/:id - Displays recipes from a selected category.**
* **/recipe/:id - Shows recipe details.**
* **Setup Instructions**
* **Prerequisites**:

**Node.js and npm React.js**

Basic HTML, CSS, JavaScript knowledge

* Installation Steps:



* **Folder Structure**



* **Runnig the Application**

**Frontend**:

* To start the frontend server, run the following command in the client directory: npm start
* npm install
* npx json-server ./db/db.json
* npm run dev
* The application will be available at [http://localhost:3000](http://localhost:3000/)
* Component Documentation
* **Key Components:**

**Hero.js – Displays introduction and CTA. Categories.js – Shows recipe categories. TrendingDishes.js – Lists popular recipes.**

* **Reusable Components:**

**RecipeCard.js – Displays individual recipes. Navbar.js – Navigation bar for the app.**

* **State Management Global State:**
* State is managed locally in components using useState and useEffect.

**Local State:**

* Recipe details and categories are fetched and stored in component state.
* **User Interface**
* **Screenshots**

**Home Page:**



* **Recipes Page:** Allows users to search for songs, albums, and artists.



* **Styling**
* **CSS Frameworks/Libraries:** Bootstrap or Tailwind CSS for styling. React Icons for UI enhancements.
* **Testing**
* **Testing Strategy:**

**Jest and React Testing Library can be used for component testing. Cypress for end-to-end testing.**

* **Code Coverage:**

**Can be tracked using Jest.**

* **Screenshots or Demo Demo Link:**

<https://github.com/kiruthikasy/CookBook/tree/main-file-made-with-clipchamp-hscpz8de-rsth3num_HLOifrgt.mp4>

**Screenshots:** See section 9 for UI screenshots.

* Known Issues
* **Issue 1:** API rate limits may affect real-time data fetching.
* **Issue 2:** UI responsiveness may need improvement.
* **Future Enhancements**
* Add user authentication for saving personal recipes.
* Implement dark mode for better UI customization.

The Documentation Provides a Comprehensive Overview of the Cook Book Project, including its Architecture, setup instructions, and future Plans