Frontend Development with React.js
Project Documentation for Cook Book

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1. Introduction

- **Project Title**: Cook Book

- **Team Members**:

    - **Diwakaran R** (**Team Leader**) [Email Id: karandiwa133@gmail.com]

    - **Bhuvanesh M**   [Email Id: bhuvaneshm186@gmail.com]

    - **Abel James R**   [Email Id: abeljames2204@gmail.com]

    - **ElanThamizhan A**   [EmailIdelanthamizhanannadurai@gmail.com]

    - **Anish Basha S**   [Email Id: dhaushrohith@gmail.com]

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2. 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**.**

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3. 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.**

4. Setup Instructions

- **Prerequisites**:

  Node.js and npm

  React.js

  Basic HTML, CSS, JavaScript knowledge

- # Installation Steps:

```
git clone <repository-link>
cd recipe-app-react
npm install
npm start
```

5.Folder Structure

```
/recipe-app-react
├── /src
│   ├── /components
│   │   ├── Hero.js
│   │   ├── Categories.js
│   │   ├── TrendingDishes.js
│   ├── /pages
│   │   ├── Home.js
│   │   ├── CategoryPage.js
│   │   ├── RecipePage.js
│   ├── /styles
│   │   ├── App.css
├── package.json
├── README.md
```

6. 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

7. 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.

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8. State Management

Global State:

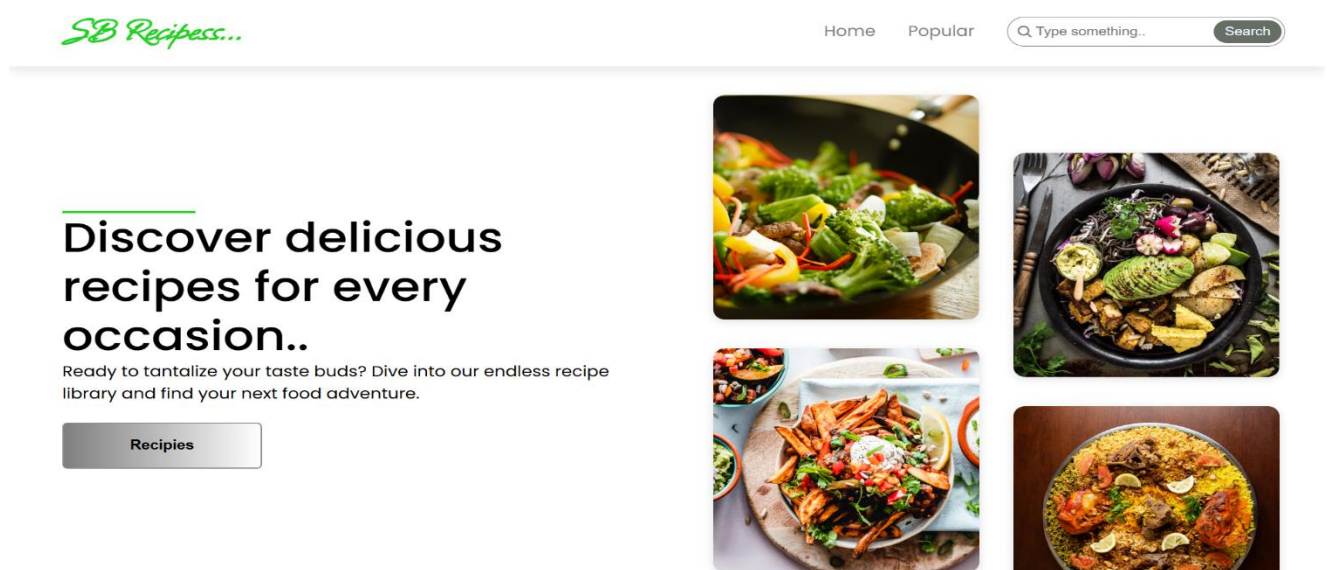- State is managed locally in components using useState and useEffect.

Local State:

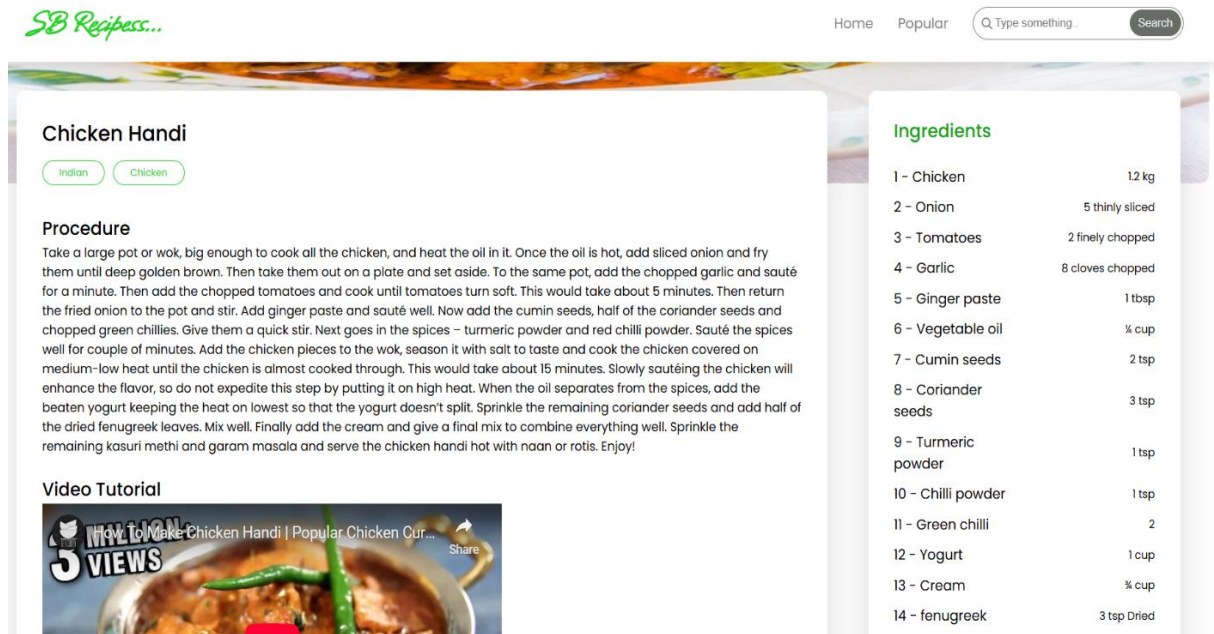- Recipe details and categories are fetched and stored in component state.

9.User Interface

- **Screenshots**

Home Page:

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

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10. Styling

- **CSS Frameworks/Libraries:**

  Bootstrap or Tailwind CSS for styling.

  React Icons for UI enhancements.

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11. 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.

12. Screenshots or Demo

  Demo Link:

https://github.com/DIWAKARANR/Cook-Book-/blob/main/demo-with-audio-file-made-with-clipchamp-hscpz8de-rsth3num_HLOifrgt.mp4

Screenshots: See section 9 for UI screenshots.

13. Known Issues

- **Issue 1:** API rate limits may affect real-time data fetching.
- **Issue 2:** UI responsiveness may need improvement.

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13. 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