Cookbook Documentation (React Project)

📝 Introduction

Project Title: Recipe Book App

Team Members & Roles:

Team Leader: C .Archana

Member1: N.Indra devi

Member2: R.Jeevitha

Member3: R.Gobika

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🎯 Project Overview

Purpose:

A web-based cookbook where users can browse, search, and add recipes.

Goals:

1. Provide an easy-to-use recipe search and filter system.

2. Allow users to contribute new recipes.

3. Create a responsive, visually appealing UI.

Key Features:

Recipe listing with images

Search & filter by category (e.g., breakfast, dinner, desserts)

Add/Edit recipes (form)

Favorite recipes list

Responsive design

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🏗️ Architecture

Component Structure:

App.js – Main entry point

Navbar – Navigation bar

RecipeList – Displays all recipes

RecipeCard – Individual recipe display

RecipeForm – Add/Edit recipes

Favorites – User’s saved recipes

State Management (Context/Redux):

Context API for global recipe and favorites state

Routing:

React Router (/, /recipes/:id, /add, /favorites)

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⚙️ Setup Instructions

Prerequisites (Node.js, npm, etc.):

Node.js >= 16

npm or yarn

Installation Steps:

1. Clone repo

git clone https://archanasarjana.github.io/cook\_book/

2. Install dependencies

cd recipe-book-app

npm install

3. Configure environment variables

Create .env file

Add API\_URL if using backend

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📂 Folder Structure

Client (components, pages, assets):

src/

├── components/

│ ├── Navbar.js

│ ├── RecipeCard.js

│ └── RecipeForm.js

├── pages/

│ ├── Home.js

│ ├── Favorites.js

│ └── RecipeDetail.js

├── assets/

│ ├── images/

│ └── styles/

├── context/

│ └── RecipeContext.js

Utilities (hooks, helpers):

useFetch.js for API calls

formatDate.js helper

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▶️ Running the Application

Start frontend:

npm start

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🧩 Component Documentation

Key Components (with props):

RecipeCard({title, image, ingredients, steps}) → Displays recipe info

RecipeForm({onSubmit}) → Adds new recipes

Reusable Components:

Button, Input, Modal

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🔄 State Management

Global State:

Recipes, Favorites handled by RecipeContext

Local State:

Form input states inside RecipeForm

UI states (modal open/close, search query)

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🎨 User Interface & Styling

Screenshots / UI examples: (Insert app screenshots here)

CSS/Styling Libraries:

Tailwind CSS

Styled-Components for custom UI

Theming:

Light/Dark mode toggle

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🧪 Testing

Strategy (Unit, Integration, E2E):

Unit tests for components

Integration tests for context and routing

E2E with Cypress

Tools (Jest, RTL, Cypress, etc.):

Jest

React Testing Library

Cypress

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📸 Screenshots or Demo

Live Demo: https://recipebook-demo.com

Screenshots: (insert images)

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🐞 Known Issues

Recipes reset on page refresh (no backend persistence yet)

Limited search functionality

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🚀 Future Enhancements

User authentication (login/signup)

Backend integration (Node.js/Express + MongoDB)

Advanced filtering (dietary preferences, cooking time)

Recipe rating & comments