Project Documentation

Cook Book

1. Introduction

Project Title: Cook Book: Your Virtual Kitchen Assistant

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2. Project Overview

Cook Book is a recipe management web application that allows users to explore, save, and share recipes, as well as plan meals and track ingredients.

Key Features:

Recipe browsing and detailed instructions

Add, edit, and delete personal recipes

Meal planning and shopping list generation

User authentication system

Responsive UI

3. Architecture

Frontend: React.js, Bootstrap, MaterialUI

Backend: Node.js, Express.js (REST APIs)

Database: MongoDB (stores user data, recipes, ingredients, favorites)

5. Setup Instructions

Prerequisites:

Node.js

MongoDB

Installations:

Git

MongoDB Compass / VS Code

6. Running the Application

Frontend:

npm start

Backend:

npm run dev

API Documentation

Manual testing using Postman

Tools: Postman, Chrome DevTools

7. API Documentation

User:

POST /api/user/register

POST /api/user/login

Recipes:

POST /api/recipes/add

GET /api/recipes/:id

GET /api/recipes/all

PUT /api/recipes/update/:id

DELETE /api/recipes/remove/:id

Meal Plans:

POST /api/mealplan/createGET /api/mealplan/view

9. Authentication

JWT-based secure login system

Routes protected with middleware

10. User Interface

Pages:

Login/Register

Home (Browse Recipes)

Add Recipe Page

Recipe Details Page

Meal Planner Page

Shopping List Page

User Profile Page

11. Screenshots or Demo

Include screenshots of recipe browsing, adding a recipe, and meal planning.

12. Known Issues

App may experience slow loading when fetching large recipe collections

Limited filtering and search options

13. Future Enhancements

Add AI-powered recipe recommendations

Support for uploading cooking videos

Integration with nutrition API for calorie tracking

Push notifications for meal reminders