Project Documentation

Project Title: Cook Book - Your Virtual Kitchen Assistant

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1. Introduction

Cook Book is a smart virtual kitchen assistant that helps users discover recipes, learn ingredients and procedures, and follow video tutorials. It also allows users to subscribe for updates and provides direct access to the home page for quick navigation.

2. Project Overview

Purpose: To provide an easy-to-use digital cooking guide with step-by-step recipes and tutorials.

Features:

• Search recipes from the collection

• Subscribe to the page for updates

• Detailed ingredients & step-by-step procedure

• Video tutorials for recipes

• Direct navigation to the Home Page

3. Architecture

• Frontend: React.js with CSS for styling

• Backend: Node.js + Express.js (optional, if subscription feature implemented)

• Database: MongoDB (optional, for storing subscriptions and recipe data)

• Authentication: Optional (if user login is added)

4. Setup Instructions

• Install Node.js

- Install npm packages using `npm install`

- Run frontend using `npm start`

- Use Visual Studio Code for development

5. Folder Structure

CookBook/

```
|-- public/      # Static assets (index.html, icons)
|-- src/         # Source code
|    ├── components/   # Reusable UI components
|    ├── pages/        # Application pages
|    ├── styles/       # CSS styles
|    ├── App.js        # Main React app
|    └── index.js      # Entry point
|-- package.json   # Project dependencies
|-- README.md
```

6. Running the Application

- npm start (Run frontend)

- Access application at http://localhost:3000

7. API Documentation

- GET /api/recipes → Fetch all recipes

- GET /api/recipes/:id → Fetch single recipe with ingredients & procedure

- GET /api/videos/:id → Fetch video tutorial link

- POST /api/subscribe → Subscribe user to page updates

- GET /api/home → Direct navigation to home page

8. Authentication

Currently optional. Can be implemented if login/subscription requires secure access.

9. User Interface

- Landing Page with recipe search

- Recipe Page with ingredients and procedure

- Video Tutorial Page

- Home Page for direct navigation

• Subscribe Section

10. Testing

• Manual testing of recipe search, subscription, and video tutorial access

• Tools: Chrome DevTools, Postman (if APIs implemented)

11. Demo video link

https://drive.google.com/drive/folders/1e-bjSu8f9IUc_gHRLrQX3rTjuzz3TmyM

12. Known Issues

• Limited number of recipes in the initial version

• Requires internet connection for video tutorials

13. Future Enhancements

• Add user accounts with personalized recipe collections

• AI-based recipe recommendations

• Voice-enabled cooking assistant

• Offline mode for saved recipes and videos