

Project Documentation

Cook Book

1. Introduction

Project Title: Cook Book

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2. Project Overview

Purpose: The Cook Book is a digital recipe platform designed for food lovers to discover, share, and organize recipes.

Features:

- Recipe Browsing & Search: Explore recipes by cuisine, ingredients, dietary preferences.
- User Contributions: Allow registered users to add and share recipes.
- Favorites & Collections: Users can save and organize favorite recipes.
- Recipe Details: Show ingredients, cooking steps, nutritional info.
- Responsive UI: Optimized experience across devices for cooking on-the-go.
- User Profiles: Manage personal recipe collections.

3. Architecture

Frontend: React.js with Bootstrap and Material UI

Backend: Node.js and Express.js managing server logic and API endpoints

Database: MongoDB stores user data, recipe information, favorites, and user profiles

4. Setup Instructions

Prerequisites:

- Node.js
- MongoDB
- Git
- React.js
- Express.js – Mongoose – Visual Studio Code

Installation Steps:

- Clone the repository: `git clone`
- Install client dependencies: `cd client → npm install`
- Install server dependencies: `cd ../server → npm install`

5. Folder Structure

```
Cook-Book/ |-- client/ # React frontend | |-- components/ | |-- pages/ |-- server/ #
Node.js backend | |-- routes/ | |-- models/ | |-- controllers/
```

6. Running the Application

- Frontend: cd client → npm start
- Backend: cd server → npm start
- Access: Visit <http://localhost:3000>

7. API Documentation

User:

- /api/user/register
- /api/user/login

Recipes:

- /api/recipes/create
- /api/recipes/:id
- /api/recipes/search

Favorites:

- /api/favorites/add
- /api/favorites/remove
- /api/favorites/list

8. Authentication

JWT-based authentication for secure login.
Middleware protects private routes.

9. User Interface

- Landing Page
- Recipe Browsing & Search
- Recipe Details Page
- User Dashboard
- Admin Panel

10. Testing

Manual testing during milestones.
Tools: Postman, Chrome Dev Tools

11. Screenshots or Demo

Screenshots of recipe browsing, adding a recipe, and managing favorites will be provided.

12. Known Issues

Some advanced search filters are not yet implemented.

13. Future Enhancements

- AI-based recipe recommendations.
- Integration with grocery shopping lists.
- Voice-assisted cooking instructions.