COOKBOOK

1.Introduction

- **Project title:** Cookbook
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2.Project Overview

Purpose:

Cookbook is a digital recipe management and food discovery platform that helps users browse, save, and share recipes. It provides personalized recipe recommendations, step-by-step cooking instructions, and nutritional information.

Features:

- Recipe search by ingredients, cuisine, or dietary preference.
- Save and favorite recipes for later use.
- Step-by-step cooking instructions with images/videos.
- Nutrition info for healthy cooking.
- Responsive design for smooth use on web & mobile.

3.Architecture

- **Frontend**: React.js / HTML / CSS (Tailwind/Bootstrap)

- **Backend**: Node.js & Express.js
- **Database**: MongoDB for storing users, recipes, categories.
- **Additional services:**
- Cloud storage for recipe images/videos.
- AI/ML for recipe recommendation

4.setup instructions

Prerequisites:

- Node.js
- MongoDB

5.installation Steps

Clone repository

Git clone <your-repo-url>

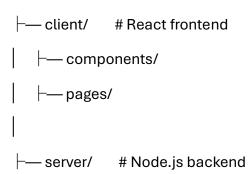# Install client dependencies

Cd client

Npm install

Install server dependencies

Cd ../server

Npm install

6.Folder Structure

```
Cookbook/
 ├── client/      # React frontend
 │   ├── components/
 │   ├── pages/
 │
 ├── server/      # Node.js backend
```

```
│    ├── routes/

│    ├── models/

│    ├── controllers/
```

7.Running the Application

Frontend:

- Cd client
- Npm start

Backend:

- Cd server
- Npm start

Access: Visit http://localhost:3000

8.API Documentation

Users:

- /api/user/register → Register new user
- /api/user/login → User login

Recipes:

- /api/recipes → Get all recipes
- /api/recipes/:id → Get recipe by ID
- /api/recipes/upload → Upload new recipe

Categories:

- /api/categories → Get all categories

9.Authentication

- Login credentials (email + password)
- Tokens (JWT) for secure session management
- Multi-factor authentication (MFA) for extra security

10. User Interface

- Login/Signup → Quick access with social logins
- Home → Featured recipes + search bar
- Recipe Details → Ingredients, steps, images, videos
- Favourite/Library → Saved recipes, meal plans
- Profile/Settings → User info, preferences, account security

11. Testing

- **Functional**: Recipe search, add, edit, delete, favorites
- **UI/UX**: Smooth design, responsive interface
- **Performance**: Fast loading of recipes/images
- **Security**: Safe login, data protection
- **User Acceptance**: Feedback from users on cooking experience

12. Future Enhancements

- AI-based recipe recommendations
- Voice-assisted cooking instructions
- Integration with grocery shopping lists
- Multi-language support

13. Conclusion

Cookbook makes cooking easier and more enjoyable by providing a personalized, organized, and interactive recipe platform. It enhances user experience with recommendations, step-by-step guidance, and a secure, smooth interface.

" Cooking is the frame of art"