# Project Documentation

Cook book: your virtual kitchen

Assistant

1.Introduction

* **Project title:**Your virtual kitchen assistant
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2.project overview

* **Purpose:** To provide users with a smart virtual kitchen assistant that suggests recipes, guides cooking steps, and helps manage ingredients.
* **Features:**

Recipe search and suggestions

Step-by-step cooking assistant

Ingredient management and shopping list

User feedback system

3.Architecture

* **Frontend:**React.js Bootstrap and Material UI (for user-friendly design).
* **Backend:** Node.js and Express.js (for h handling server request)
* **Database:** MongoDB (to store recipes, users, and cooking data).

4.setup instruction

* **Prerequisites:** Node.js, MongoDB, Git, React.js, Express.js, Mongoose, VS Code.
* **Steps:**

1. Clone repository

2. Install client dependencies (cd client → npminstall)

3. Install server dependencies (cd server → npm install)

4. Run both frontend and backend

5.Folder structure

**Client** / React frontend (pages, components

* **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/search, /api/recipes/:id
* **Ingredients**: /api/ingredients/add, /api/ingredients/list

**Chats/Assistant:** /api/assistant/

8. Authentication

JWT-based authentication for secure login.

Middleware to protect private user routes.

9. User Interface

**Landing Page –** Introduction to the cookbook assistant.

**Recipe Dashboard** – User searches and selects recipes.

**Cooking Assistant Page** – Step-by-step cooking guide.

**Admin Panel** – Manage recipes and users

10. Testing

**Manual Testing –** Checked all main flows (recipe search, login, cooking steps).

* **Tools Used:** Postman (API), Chrome Dev Tools (UI testing).

11. Screenshots/Demo

https://drive.google.com/file/d/1ASPwIHVkWOnhOQBE4TMusmseXlqrhRsC/view?usp=sharing

Thank you.