

# Cook Book: Your Virtual Kitchen Assignment

## 1. Introduction

- Project Title:

Cook Book: Your Virtual Kitchen Assignment

- Team ID:

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## 2. Project Overview

- Purpose:

This project aims to create a virtual kitchen platform where users can share recipes, cooking tips, and meal planning techniques. It serves as a community for cooking enthusiasts to collaborate, explore, and enhance their culinary skills.

- Features:

- Recipe creation and sharing
- Meal planner and nutritional tracker
- User ratings and reviews
- Cooking tips and video tutorials
- Admin panel for moderation and management

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### 3. Architecture

- Frontend:

React.js with Bootstrap and Material UI for responsive and user-friendly interfaces.

- Backend:

Node.js and Express.js for server logic and API endpoints.

- Database:

MongoDB stores user data, recipes, comments, and preferences.

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## 4. Setup Instructions

- Prerequisites:

- Node.js
- MongoDB
- Git
- React.js
- Express.js
- Mongoose
- Visual Studio Code or preferred IDE

- Installation Steps:

1. Clone the repository:  
`git clone [repository URL]`

2. Install client dependencies:  
`cd client`  
`npm install`

3. Install server dependencies:  
`cd ../server`  
`npm install`

## 5. Folder Structure

virtual-kitchen/

|-- client/               # React frontend

| |-- components/

| |-- pages/

|-- server/               # Node.js backend

| |-- routes/

| |-- models/

| |-- controllers/

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## 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
- Comments:
  - /api/comments/add
  - /api/comments/:recipeId
- Nutrition:
  - /api/nutrition/track

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## 8. Authentication

- JWT-based authentication for secure login and session management.
- Middleware protection ensures only authenticated users access private routes.



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## 9. User Interface

- Landing Page – Overview of recipes and trending dishes
- User Dashboard – Personalized recommendations and saved recipes
- Admin Panel – Manage users, recipes, and feedback
- Recipe Details Page – Instructions, ingredients, and ratings

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## 10. Testing

- Manual Testing: Conducted during development milestones.
- Tools Used:
  - Postman
  - Chrome Dev Tools
  - Jest (for unit testing)

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## 11. Screenshots or Demo

[Include screenshots or demo link here]

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## 12. Known Issues

[List known bugs or incomplete features here]

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## 13. Future Enhancements

- Integration with external APIs for nutrition tracking
- Personalized meal plans based on dietary preferences
- AI-based recipe suggestions
- Social sharing features