

Project Documentation

CookBook: Your Virtual Kitchen Assistant

1. Introduction

- **Project Title:** CookBook: Your Virtual Kitchen Assistant
- **Website Title :** Quad Recipes
- **Team ID:** NM2025TMID37954
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2. Project Overview

- **Purpose:** To provide a collection of recipes in one accessible place and guide beginners and experienced cooks in preparing meals.
- **Features:**
 - To share step-by-step instructions with images or videos.
 - Provides detailed process for recipes.
 - Easy and simple user interface to use.
 - Has a search engine to search various recipes.

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, project information, applications, and chat messages

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

SB-Works/

```
|-- client/           # React frontend
    |_components/ L
        __pages/
|-- server/           # Node.js backend
    |_routes/
        |__models/
        |__controllers/
```

6. Running the Application

Front end

Cd client npm start

Backend

Cd server npm start

- **Access:** Visit: <http://localhost:3000/>

7. API Documentation

1. Recipes

/api/home/recipes

2. Popular recipes

/api/most popular categories/recipe

3. Search dishes

/api/hme/search bar/search/selected recipe

4. Subscribe

address/subscribe

/api/home/email

8.Authentication

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

User Interface

- Landing Page with popular dishes section.
- Recipes Dashboard.
- Search engine bar at the top right corner of the page to search various dishes.
- Categories of recipes at footer.

Testing

- Manual testing during milestones
- Tools: Postman for API testing, chrome Dev Tools for frontend testing.

Screenshots or Demo

Demo link:

<https://drive.google.com/file/d/1dhuxrC0DSViOTEus7ySxYpU1CgGhTw8U/view?usp=sharing>

Known Issues

Nil

Future Enhancements

- Personalized Recommendations – Suggest recipes based on user preferences, allergies, or past activity.
- Multilingual Support – Recipes available in different languages.
- User Interaction Features – Ratings, reviews, and comment sections for community sharing.