

## Project Documentation

### 1. Introduction

- **Project Title:** Cook Book - Your Virtual Kitchen Assistant.
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### 2. Project Overview

- **Purpose:** The Cook Book Web Application is a beginner-friendly project designed to help users search for recipes by entering ingredients. The main goal of this project is to provide a simple and interactive platform where users can quickly discover meals based on what they already have at home.
- **Features:**
  - **Search Bar** – Users can type an ingredient (e.g., “egg”, “chicken”) to search for meals.
  - **Search Button** – Triggers the recipe search functionality.
  - **Meal List Section** – Displays meals that match the ingredient entered.
  - **Background Styling** – Uses attractive food images as the background with proper alignment and scaling.
  - **Responsive Layout** – Basic structure that adapts to different screen sizes.
  - **Scalable Design** – Can be extended to fetch real recipe data from APIs for advanced functionality.

### 3. Architecture

- **Frontend:** Present & functional (HTML, CSS, JS).
- **Backend:** Not yet implemented (can be added for advanced features).
- **Database:** Not yet implemented (can be added for storing data).

### 4. Setup Instructions

- **Prerequisites:**
  - React.js
  - Visual Studio Code
  - A local web server - live server

- **Installation Steps:**

Git clone:<https://github.com/24bsccs51-savi/Cook-Book>

## 5. Folder Structure

```
cook-book/
|
├── index.html      # Main HTML file
├── styles.css       # Stylesheet
├── script.js        # JavaScript logic
├── cook.jpg         # Background/decoration image
├── download.jpg     # Additional image
└── settings.json    # Optional VS Code config
```

## 6. Running the Application

1. Open the folder in your editor.
2. Right-click on index.html and choose Open With → Browser.  
OR if using VS Code, install the Live Server extension and click “Open with Live Server”.
3. The web app will open in your browser.
4. Enter an ingredient in the search bar and click Search.

## 7. API Documentation

If you extend the project to use a recipe API (like TheMealDB):

Open script.js.

Replace the placeholder search logic with an API fetch request.

## 8. Authentication

Currently, the API is open (no authentication).

In future versions, JWT-based authentication can be added for user-specific features (like favorites, saved recipes).

## 9. User Interface

The Cook Book Application System provides a clean and simple user interface designed for smooth navigation and usability. The application consists of the following main pages:

- **Landing Page**

**Purpose:** Serves as the entry point of the application.

**Features:** • Displays the project name.

- Search bar for quick navigation (e.g., search recipes or projects).
- Attractive background images to engage users.

- **Freelancer Dashboard**

**Purpose:** Provides freelancers (or end-users) with an overview of their activities.

**Feature:** List of available recipes based on ingredients.

- **Project Details Page**

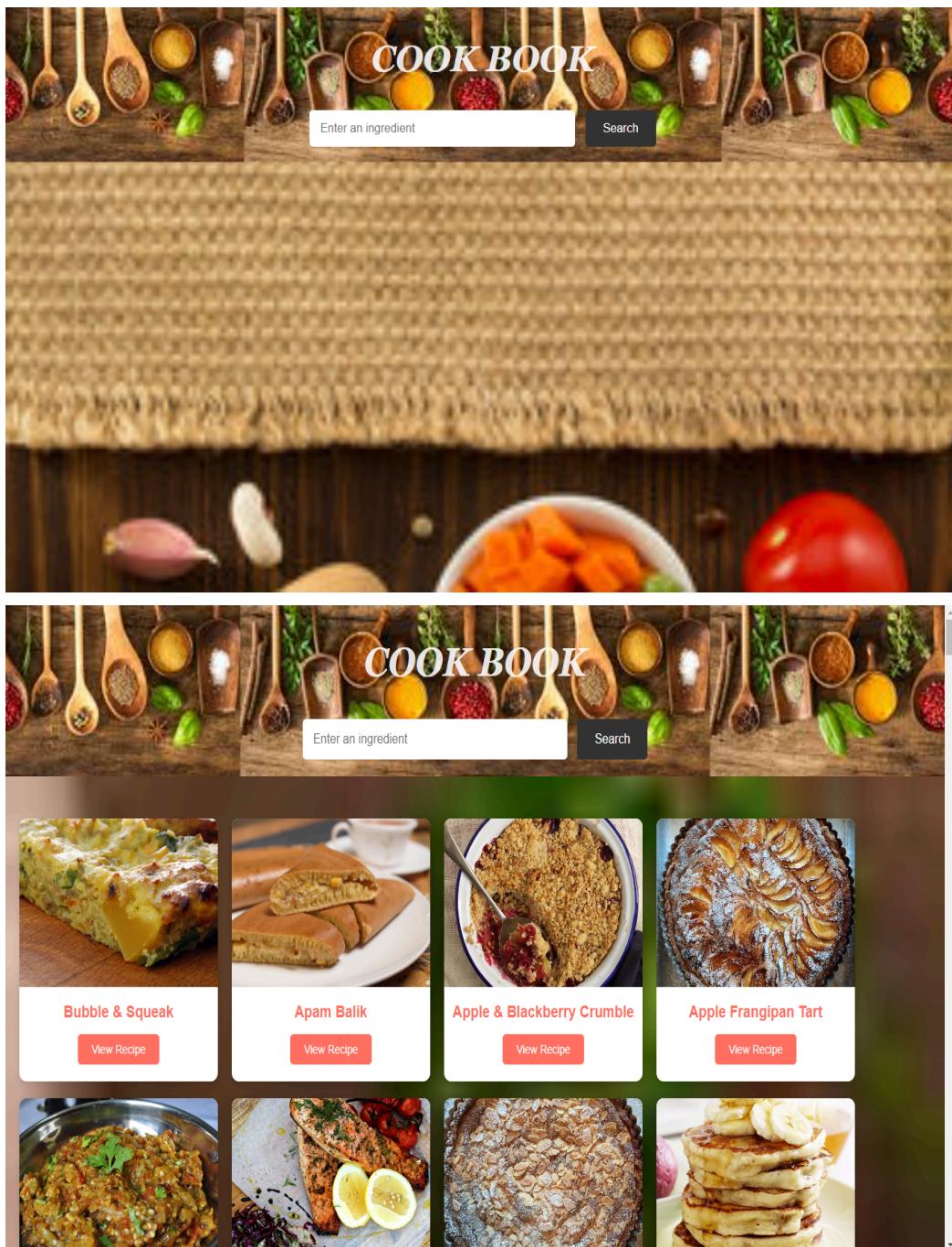
**Purpose:** Displays detailed information about a specific recipe.

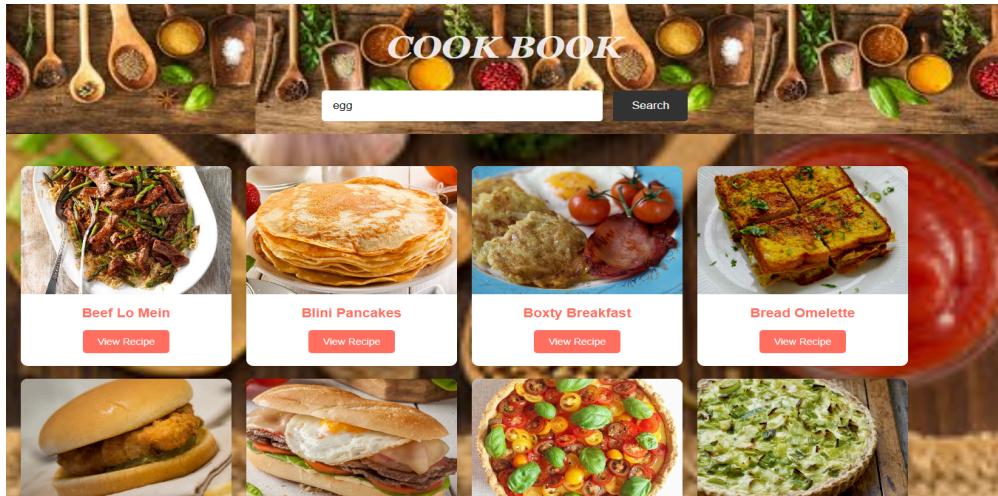
**Feature:** Title and description of the selected recipe.

## 10. Testing

Manual testing was performed running the app locally using live server. verified routing,image display, and responsive layout.

## 11. Screenshots or Demo





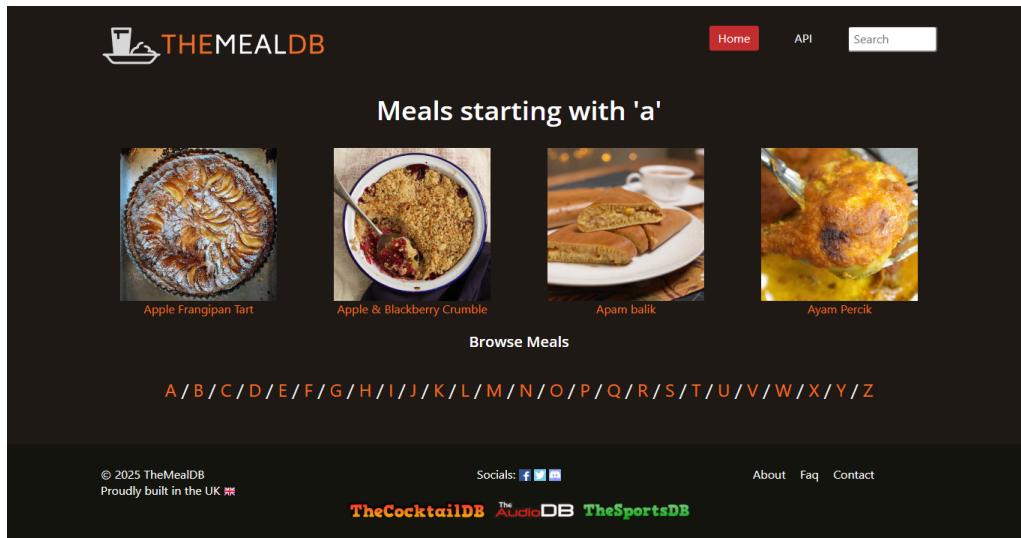
A screenshot of TheMealDB website showing a recipe for "Chicken Handi". The page has a dark background. At the top, there is a navigation bar with "Home", "API", and a search bar. The main title is "Chicken Handi" with a left arrow, an Indian flag icon, and a right arrow. Below the title is a large image of the dish. To the right of the image are ingredient photos and their quantities:

- 1.2 kg Chicken
- 5 thinly sliced Onion
- 2 finely chopped Tomatoes
- 8 cloves chopped Garlic
- 1 tbsp Ginger paste
- 1/4 cup Vegetable oil

At the bottom left, there is a "No Tags" link.

A screenshot of TheMealDB website showing a section titled "Meals from the Indian area". It displays a grid of nine food images, each with a caption:

- Dal fry
- Chicken Handi
- Lamb Biryani
- Tandoori chicken
- Baingan Bharta
- Lamb Rogan Josh
- Recheddo Masala Fish
- Nutty Chicken Curry
- Matar Paneer
- Kidney Bean Curry
- Smoked Haddock Kedgeree
- Bread omelette



Demo Link

[https://drive.google.com/drive/folders/1DC6adNFr7gj5LPW5nvtc1Zu5DeTr\\_QvU](https://drive.google.com/drive/folders/1DC6adNFr7gj5LPW5nvtc1Zu5DeTr_QvU)

## 12. Known Issues

Although the Cook Book Application is functional and user-friendly, a few known issues still exist. Currently, the system does not have a fully developed backend or database integration, which means that user data, projects, and chats are not persistently stored and are lost on page refresh. API responses are based on mock data, so real-time updates and authentication are limited. In some cases, the user interface may not scale perfectly on smaller mobile devices, requiring further optimization for responsiveness. Error handling is basic, and invalid inputs may not always display descriptive error messages.

## 13. Future Enhancements

In future updates, the application will include a fully integrated backend and database for storing user data, projects, and chats. Role-based authentication, improved error handling, and mobile responsiveness will be added to enhance usability. Features like real-time notifications, favorites/bookmarked recipes, analytics dashboards, and integration with external recipe APIs are also planned to make the platform more interactive and reliable.