

# Project Documentation

## Project Title - CookBook: Your Virtual Kitchen Assistant

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### 1. Introduction

- **Project Title:** CookBook – Your Virtual Kitchen Assistant
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### 2. Project Overview

- **Purpose:**

CookBook is a cutting-edge web application designed to provide a user-friendly platform for recipe discovery, organization, and creation. It caters to cooking enthusiasts as well as professional chefs, offering a space to explore, share, and manage recipes.
- **Features:**
  - Hero section with introduction and CTA button
  - Popular Categories fetched from TheMealDB API

- Trending Dishes section on Home Page
  - Newsletter subscription
  - Category Page to display dishes within a category
  - Recipe Page showing ingredients, instructions, and demo video
  - Responsive design using React and Tailwind/Bootstrap
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### 3. Architecture

- **Frontend:** React.js, React Router DOM, Axios, Bootstrap/Tailwind CSS, React Icons
  - **Backend:** Not required (data fetched via TheMealDB API)
  - **Database:** Not applicable (uses external API for recipes and categories)
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### 4. Setup Instructions

#### Prerequisites:

- Node.js & npm
- React.js
- Git (for version control)
- Code editor (VS Code recommended)

#### Installation Steps:

```
# Clone or download the project  
git clone <repository-link>
```

```
# Navigate to project folder
```

```
cd cookbook-app
```

```
# Install dependencies
```

```
npm install
```

```
# Start development server
```

```
npm start
```

Access the application at: <http://localhost:3000>

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## 5. Folder Structure

```
CookBook/
```

```
|
```

```
|— src/
```

```
|   |— components/      # Reusable components (Navbar, Hero, Newsletter, Footer)
```

```
|   |— pages/           # Pages for routing (Home, Categories, Recipe)
```

```
|   |— styles/          # CSS styling files
```

```
|   └─ App.js           # Main application entry
```

```
|
```

```
└─ package.json
```

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## 6. Running the Application

- **Frontend:**

```
cd cookbook-app
```

```
npm start
```

- **Access:**

Visit <http://localhost:3000>

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## 7. API Documentation

TheMealDB API Endpoints used:

- **Categories:**  
<https://www.themealdb.com/api/json/v1/1/categories.php>
  - **Meals by Category:**  
<https://www.themealdb.com/api/json/v1/1/filter.php?c=CategoryName>
  - **Recipe by ID:**  
<https://www.themealdb.com/api/json/v1/1/lookup.php?i=RecipeID>
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## 8. Authentication

- No authentication required (public API access).
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## 9. User Interface

- **Landing Page (Hero + Trending + Categories)**
  - **Category Page** (lists meals under a chosen category)
  - **Recipe Details Page** (ingredients, instructions, and demo video)
  - **Newsletter Component** (email subscription)
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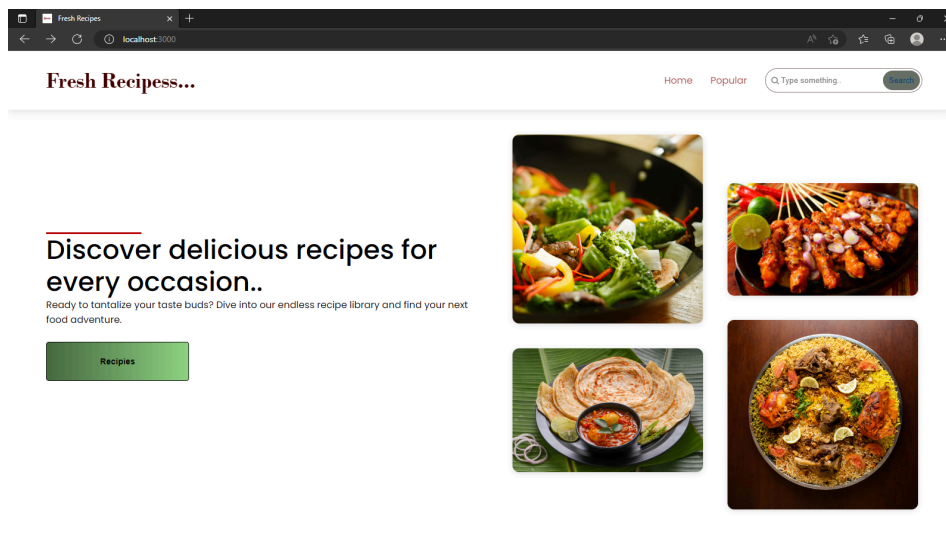
## 10. Testing

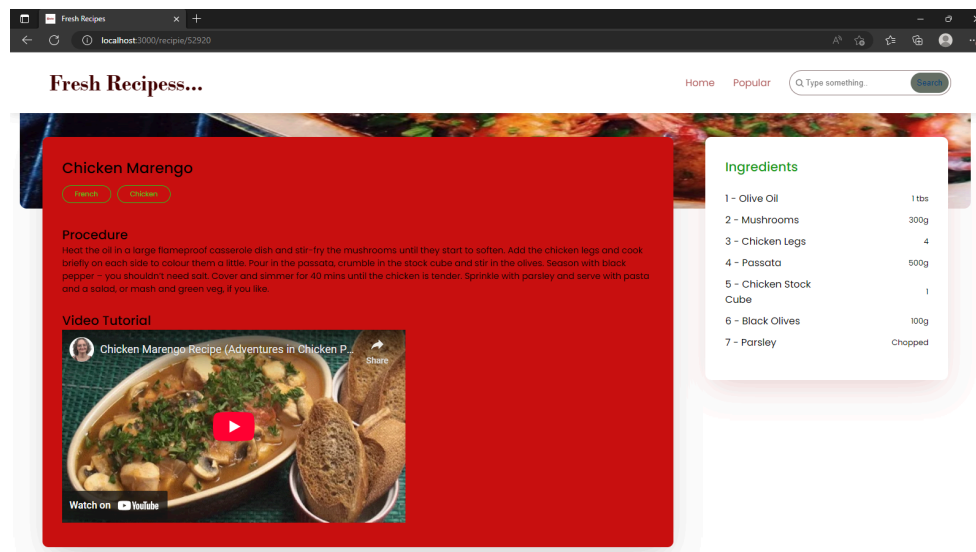
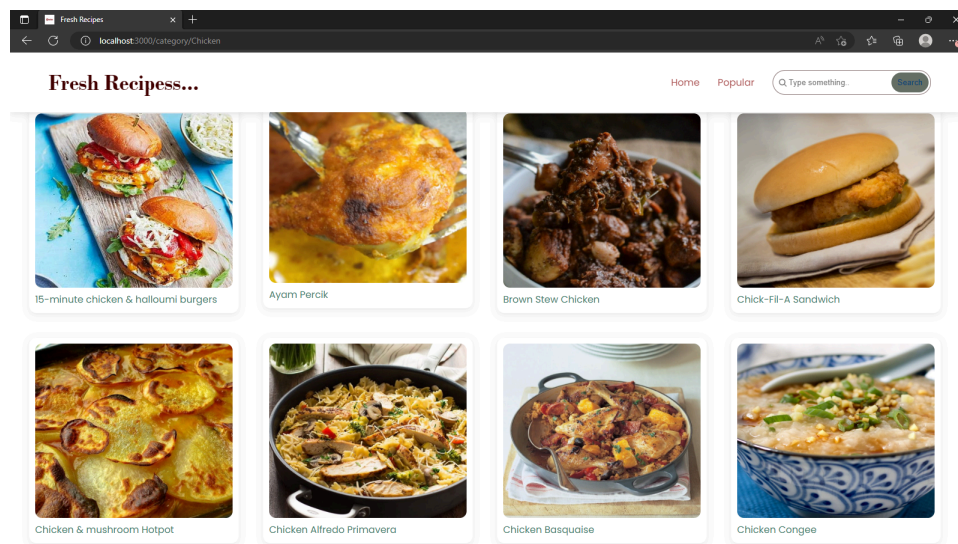
- **Manual Testing:**
    - Verified routing works correctly (Home → Category → Recipe).
    - Tested API calls for fetching categories, meals, and recipes.
    - Ensured responsiveness across devices.
  - **Tools Used:** Chrome Dev Tools, Postman (for API testing).
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## 11. Screenshots or Demo

- **Demo Link:** [Click to View Demo](#)
- **Source Code:** [Access Source Code](#)

### Screenshot





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## 12. Known Issues

- Limited to TheMealDB API dataset.
- No backend or user login system implemented.

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## 13. Future Enhancements

- Add user authentication and personalized dashboards.
- Allow users to upload and share their own recipes.
- Implement a backend with database support for saved recipes.
- Enable advanced filters (diet type, preparation time, etc.).
- Mobile app version of CookBook.