

PROJECT DOCUMENTATION

COOKBOOK: YOUR VIRTUAL KITCHEN ASSISTANT

DONE BY:

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1. INTRODUCTION:

- Project Title: CookBook - Your Virtual Kitchen Assistant
- Team ID - NM2025TMID37594
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2. PROJECT OVERVIEW:

Purpose:

CookBook is a frontend React.js application that allows users to browse recipes categorized by type. The project provides a visually engaging dark-themed interface, responsive design, and smooth navigation using React Router.

Features:

- Browse recipes by category.
- Dark theme user interface.
- Reusable recipe card component.
- Responsive design for desktop & mobile.
- Routing between pages using React Router.

3. ARCHITECTURE:

- Frontend: React.js with plain CSS (custom theming).
- Backend: Node.js + Express.js (handles routes & API endpoints).
- Databases: MongoDB (via Mongoose).

4. SETUP INSTRUCTIONS:

Prerequisites:

- Node.js
- Git
- React.js
- Visual Studio Code

Installation Steps:

- Clone the repository from GitHub.
- Navigate into the project folder.
- Install all the required dependencies.
- Start the development server.

5. FOLDER STRUCTURE:

```
CookBook/  
  |-- client/      # React frontend  
    |  |-- components/  # Navbar, Footer, RecipeCard  
    |  |-- pages/     # Home, CategoryPage  
    |  |-- styles/    # Dark theme CSS  
    |  
    |-- server/      # Node.js backend  
      |  |-- routes/   # API route definitions  
      |  |-- models/   # Mongoose schemas (Recipe, Category)  
      |  |-- controllers/ # Business logic  
      |  
    |-- package.json
```

6. RUNNING THE APPLICATION:

- Open a terminal or command prompt on your system.
- Navigate to the main project folder where the source code is located.
- Ensure that all dependencies are installed properly before running the project.
- Start the frontend development server. This will build and serve the application locally.
- Once the server starts successfully, open a web browser.
- In the browser, type <http://localhost:3000> in the address bar.
- The application will now be accessible, and you can interact with all available features.
- If you make any code changes, the development server will automatically refresh the page to reflect updates in real-time.

7. API DOCUMENTATION:

Project(Recipes):

- `POST /api/recipes/create` → Add a new recipe
- `GET /api/recipes/:id` → Get recipe by ID
- `GET /api/recipes` → List all recipes

Categories:

- `GET /api/categories` → List all categories
- `GET /api/categories/:id` → Get recipes by category.

8. AUTHENTICATION:

- WT-based authentication planned (future).
- Current version is public access only.

9. USER INTERFACE:

- **Landing Page:** Shows featured categories.
- **Category Page:** Displays recipes under the chosen category.
- **Recipe Details Page:** Contains recipe description and images.
- **Admin Panel (future):** To add/edit recipes directly.

10. TESTING:

Manual Testing:

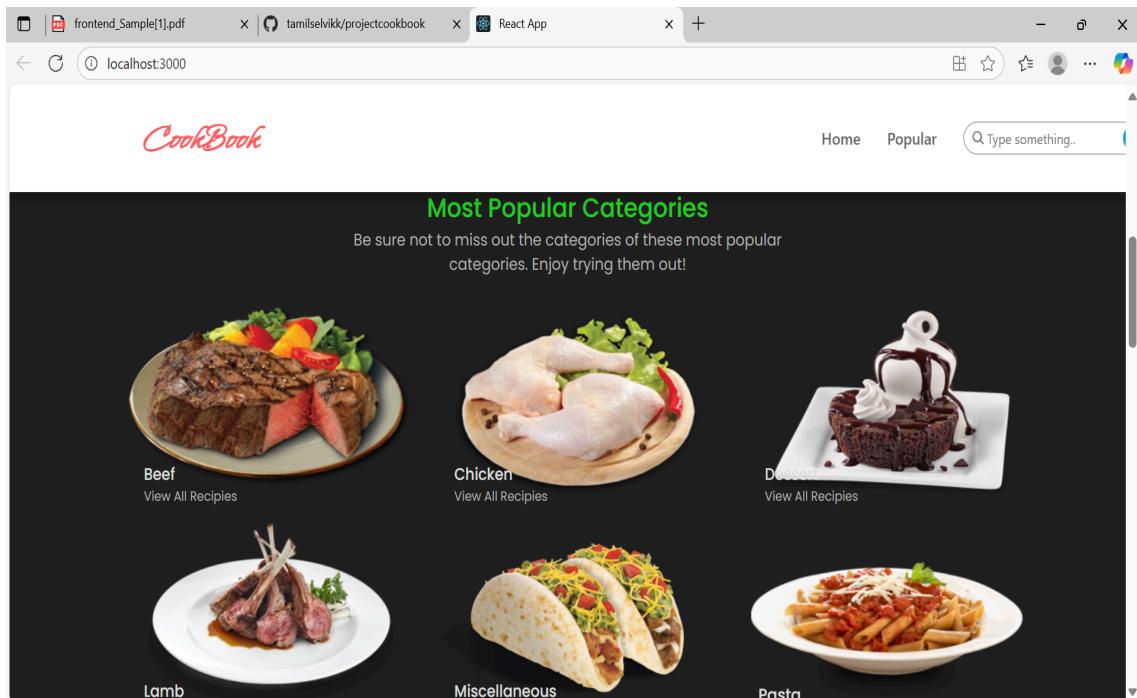
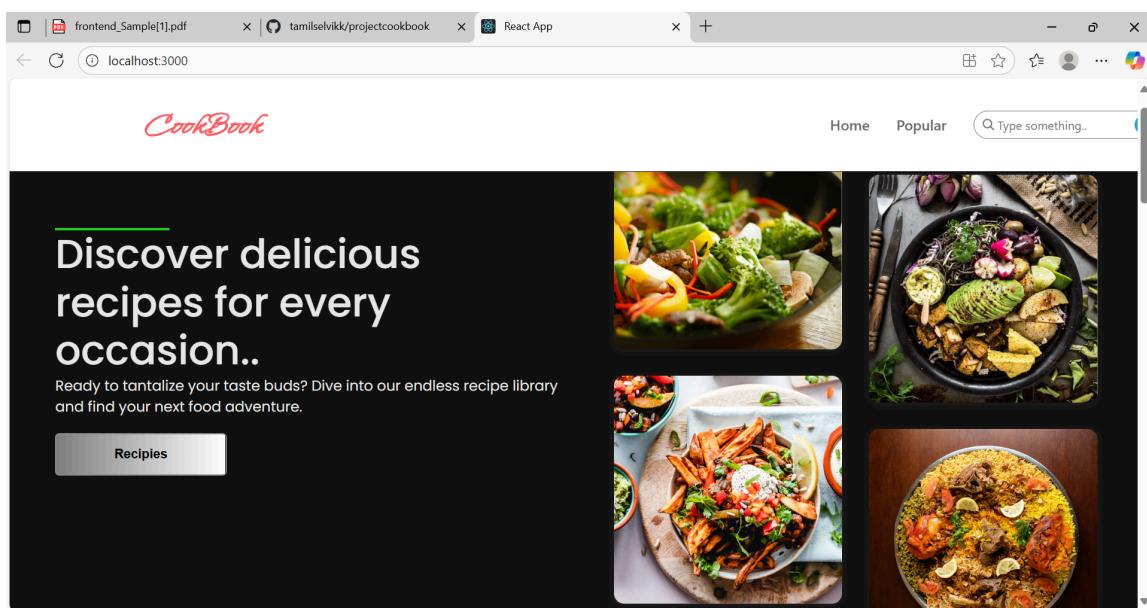
- Frontend navigation tested using Chrome DevTools.
- Backend API endpoints tested using Postman.

Tools Used:

- Postman.
- Chrome DevTools.
- Console debugging.

11. SCREENSHOTS AND DEMO:

Screenshots:



frontend_Sample[1].pdf | tamiselvikk/projectcookbook | React App

localhost:3000/recipie/53049

CookBook

Home Popular Type something..

Apam balik

Malaysian Dessert

Procedure

Mix milk, oil and egg together. Sift flour, baking powder and salt into the mixture. Stir well until all ingredients are combined evenly. Spread some batter onto the pan. Spread a thin layer of batter to the side of the pan. Cover the pan for 30–60 seconds until small air bubbles appear. Add butter, cream corn, crushed peanuts and sugar onto the pancake. Fold the pancake into half once the bottom surface is browned. Cut into wedges and best eaten when it is warm.

Video Tutorial

Apam Balik Pasar Malam yang Lembut... Watch Later Share

Ingredients	
Milk	200ml
Oil	60ml
Eggs	2
Flour	1600g
Baking Powder	3 tsp
Salt	1/2 tsp
Unsalted Butter	25g
Sugar	45g
Peanut Butter	3 tbs

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localhost:3000

CookBook

Home Popular Type something..

Trending Dishes



Lamb Rogan josh



Matar Paneer



Nutty Chicken Curry



12. KNOWN ISSUES:

- Some font colors required adjustments for dark theme.
- Limited error handling in API endpoints.
- No authentication/authorization implemented yet.

13. FUTURE ENHANCEMENTS:

- **User Authentication System:** Add login and signup functionality so users can save favorite recipes, manage their profiles, and contribute content.
- **Recipe Submission by Users:** Allow users to add their own recipes with images, ingredients, and preparation steps.
- **Search and Filters:** Implement advanced search (by ingredients, cuisine, cooking time) and category filters for a better user experience.
- **Ratings and Reviews:** Enable users to rate and review recipes to build trust and highlight popular dishes.
- **Admin Dashboard:** Provide an admin panel to manage categories, recipes, and user submissions.
- **Mobile Responsiveness:** Further optimize the design for seamless usage across different devices.