

# NAAN MUDHALVAN PROJECT

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## COOKBOOK-YOUR VITRUAL KITCHEN ASSISTANT

### 1. Introduction

Project Title: Cook book

Team ID: NM2025TMID47114

Team Leader: S.Ashwini

Email Id: ashwini2006skylap@gmail.com

#### **Team members:**

1. S.Preethi -preethivel9043@gmail.com -Document making

2. D.Pooja -poojadhandapani321@gmail.com –Document making

3. S.Deepika -deepikasenthil836@gmail.com -Demo vedio maker

4. S.Ashwini -ashwini2006skylap@gmail.com -Coding developer

## 2. Project Overview

### **Purpose:**

- SmartCook is a React.js-based online cookbook application that allows users to browse,
- save, and share recipes. It aims to make cooking easier by providing detailed recipes,
- step-by-step instructions, and personalized recommendations.

### **Features:**

- Browse recipes by category, cuisine, or ingredients
- Save favourite recipes to personal profile
- Add and edit user-submitted recipes
- Responsive UI for mobile and desktop

## 3. Architecture

### **Component Structure:**

- Header (navigation bar)
- Recipe List (list of recipes)
- Recipe Detail (individual recipe page)
- Favourites (user's saved recipes)
- AddRecipeForm (form to add new recipes)
- Footer

### **State Management:**

- Using React Context API to manage global state for recipes and user favourites.
- Routing:
- React Router v6 handles navigation between Home, Recipe Detail, favourites, and Add Recipe
- Pages

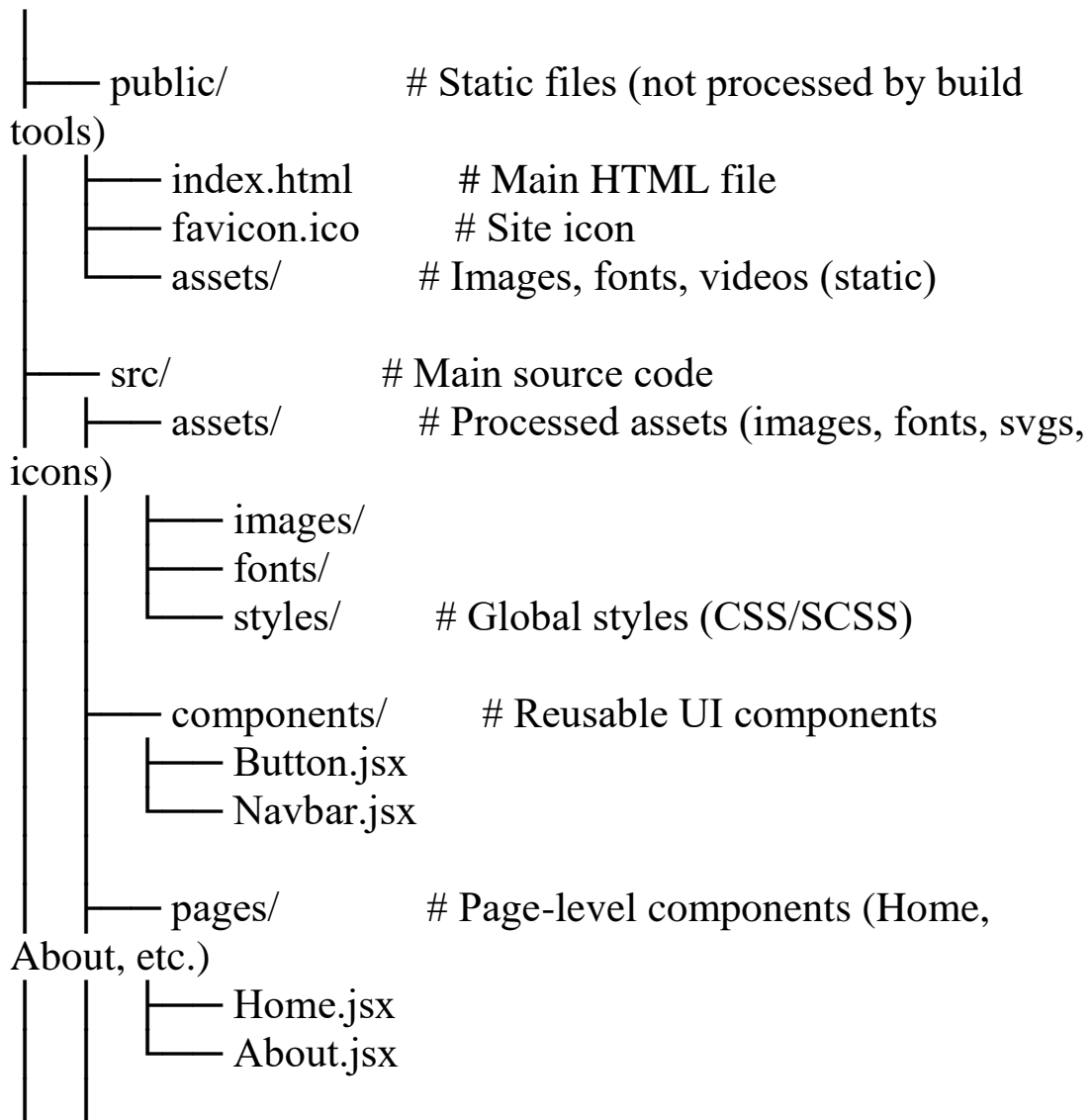
## 4. Setup Instructions

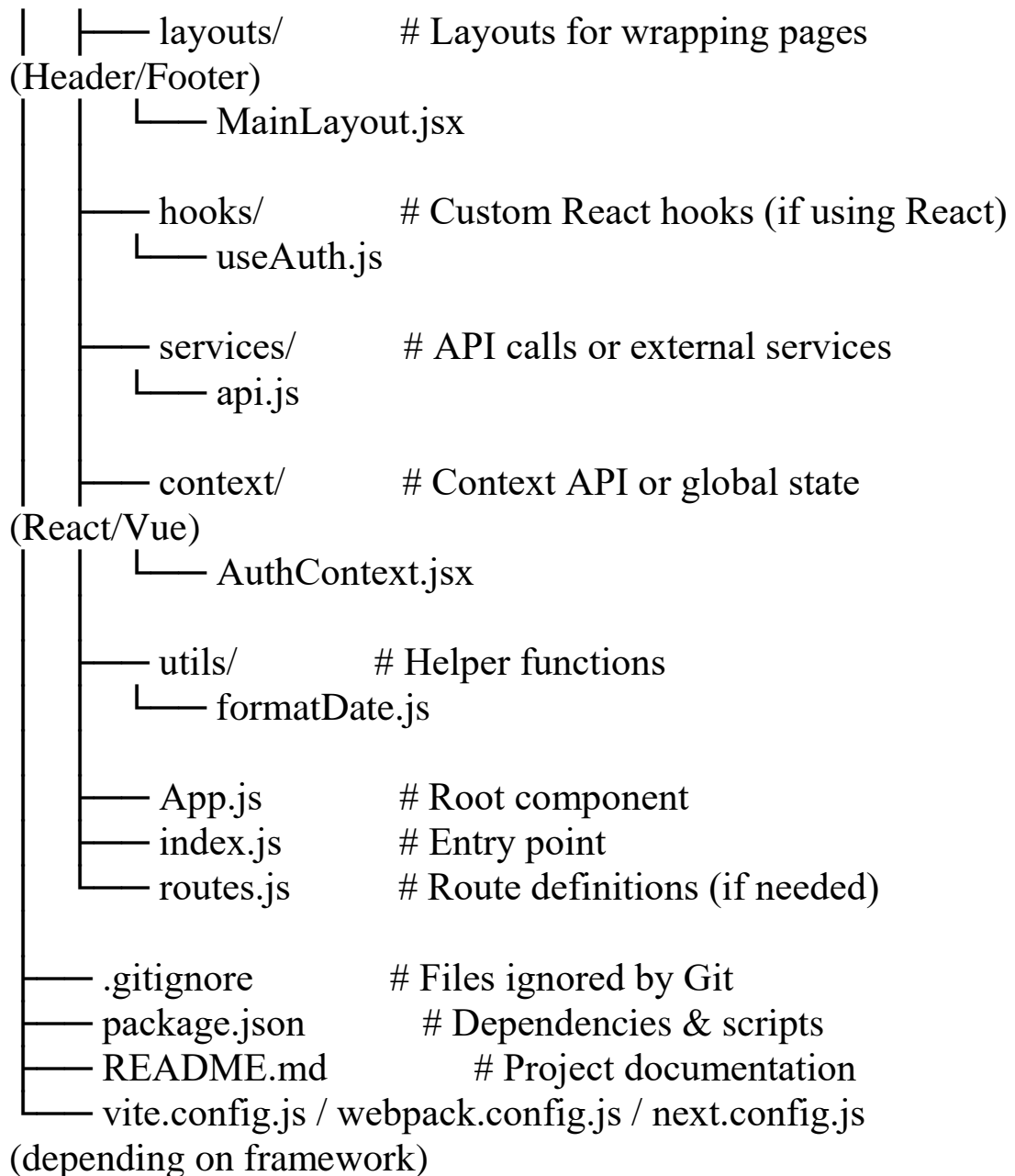
### Prerequisites:

- Node.js
- MongoDB
- Git
- React.js
- Express.js – Mongoose – Visual Studio Code
- Installation Steps
- Clone the Repository

## 5. Folder Structure

### Cookbook:virtual kitchen Assistant





## 6. Running the Application

- Frontend:cd client
- npm start
- Backend:cd server npm start
- Access:http://localhost:3000

## 7. Component Documentation

### Key Components:

- RecipeList: Displays recipe cards fetched from API. Props: recipes[].
- RecipeDetail: Shows full recipe details. Props: recipeId.

### Reusable Components:

- RecipeCard – used in RecipeList and Favorites.
- Button – styled button component used throughout the app

## 8. State Management

### Global State:

- Managed by RecipesContext for recipes, favorites, and user login status.

### Local State:

- Form input states managed inside AddRecipeForm.

## 9. User Interface

### Include screenshots or GIFs of:

- Home page showing recipes
- Recipe detail page
- Adding a recipe

## 10. Styling

### CSS Frameworks/Libraries:

- Tailwind CSS for styling; Styled Components for scoped styles.
- Theming:
- Dark and light mode toggle implemented via context.

## 11. Testing

### Testing Strategy:

- Jest + React Testing Library for unit and integration tests.

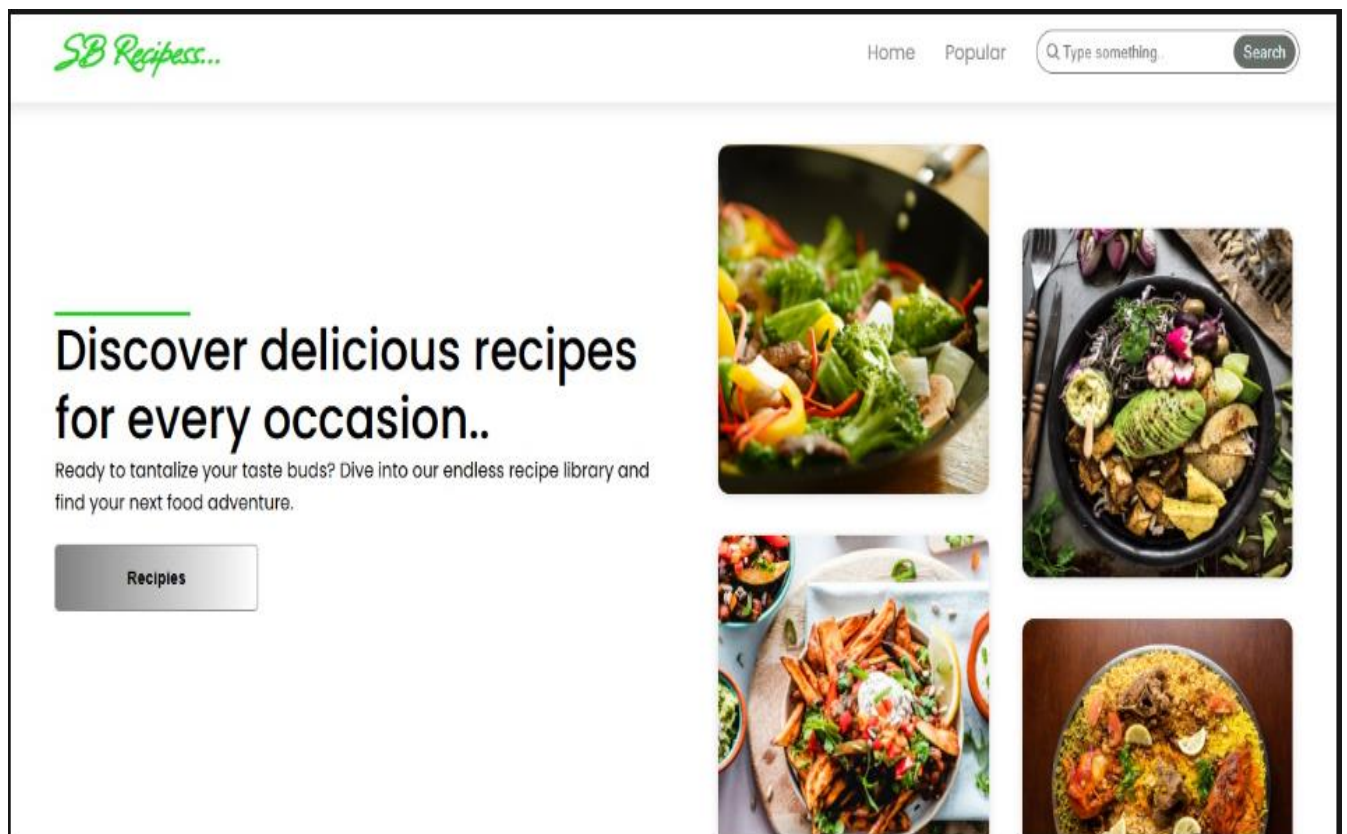
### Code Coverage:

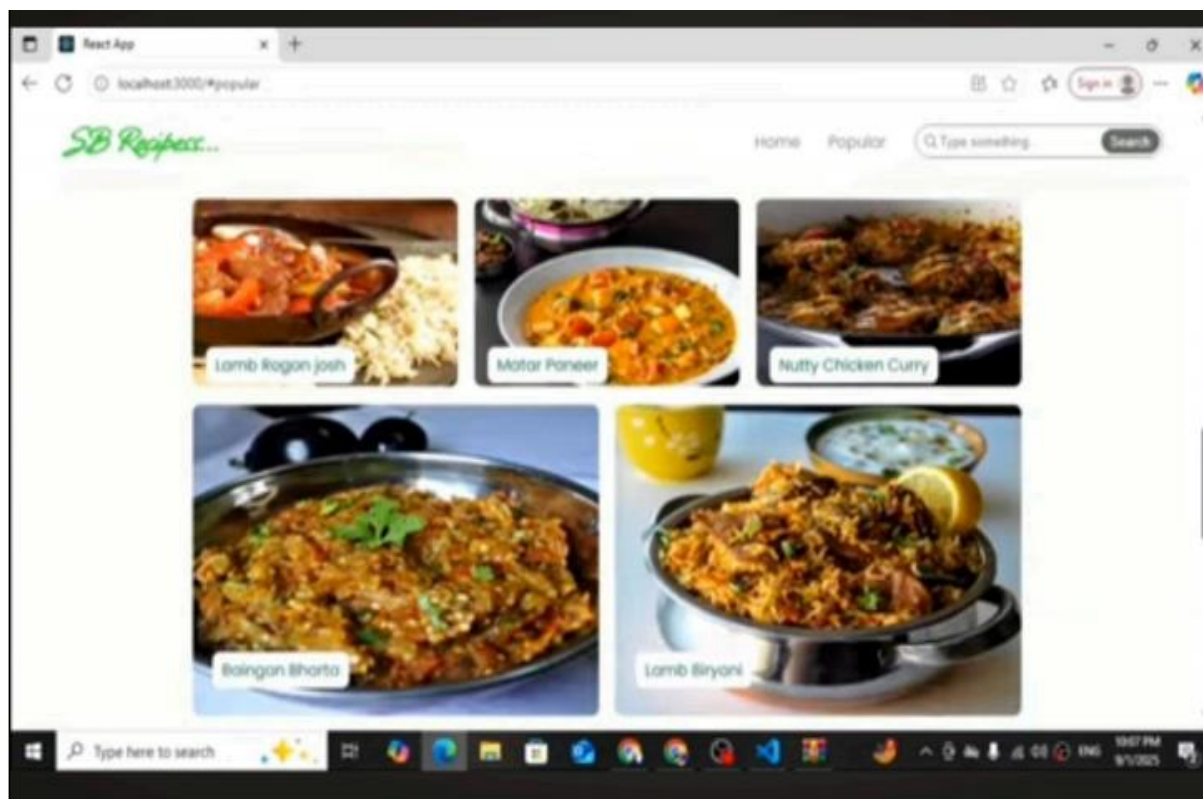
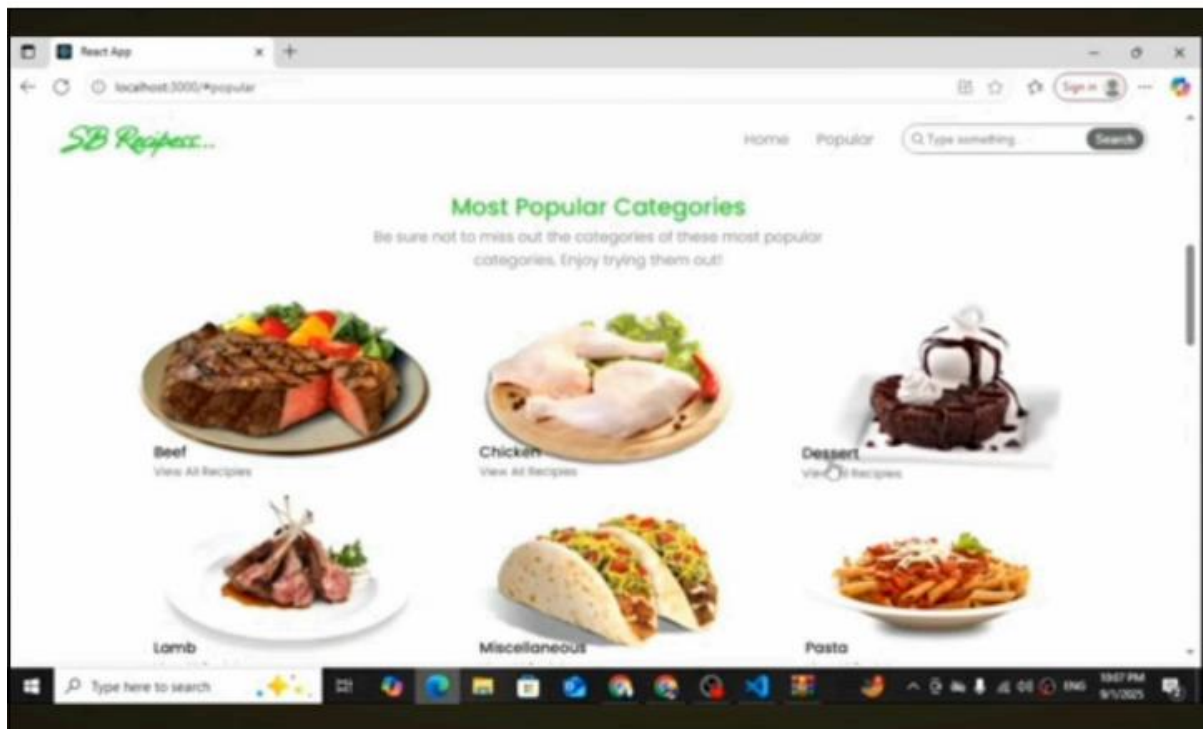
- Using jest --coverage to ensure 80%+ coverage

## 12. Screenshots or Demo

### Add actual screenshots or a demo link:

- Demo Link: <https://smartcook-demo.netlify.app>





### **13. Known Issues**

- Search filtering may be slow with very large recipe lists.
- Image upload sometimes fails on slow networks.

### **14. Future Enhancements**

- Add shopping list generation from recipe ingredients
- Introduce push notifications for new recipes
- Offline mode for saved recipes