NAAN MUDHALVAN PROJECT

COOKBOOK-YOUR VITRUAL KITCHEN ASSISTANT

1. Introduction

Project Title:Cook book

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Team members:

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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)
- RecipeList (list of recipes)
- RecipeDetail (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

```
│
├── public/            # Static files (not processed by build
tools)
│   ├── index.html     # Main HTML file
│   ├── favicon.ico    # Site icon
│   └── assets/        # Images, fonts, videos (static)
│
├── src/               # Main source code
│   ├── assets/        # Processed assets (images, fonts, svgs,
icons)
│   │   ├── images/
│   │   ├── fonts/
│   │   └── styles/    # Global styles (CSS/SCSS)
│   │
│   ├── components/    # Reusable UI components
│   │   ├── Button.jsx
│   │   └── Navbar.jsx
│   │
│   ├── pages/          # Page-level components (Home,
About, etc.)
│   │   ├── Home.jsx
│   │   └── About.jsx
│   │
│   ├── layouts/        # Layouts for wrapping pages
(Header/Footer)
│   │   └── MainLayout.jsx
│   │
│   ├── hooks/          # Custom React hooks (if using React)
│   │   └── useAuth.js
│   │
│   ├── services/       # API calls or external services
│   │   └── api.js
│   │
│   ├── context/        # Context API or global state
(React/Vue)
│   │   └── AuthContext.jsx
│   │
│   ├── utils/        # Helper functions
│   │   └── formatDate.js
│   │
│   ├── App.js          # Root component
│   ├── index.js        # Entry point
│   └── routes.js       # Route definitions (if needed)
│
├── .gitignore          # Files ignored by Git
├── package.json          # Dependencies & scripts
├── README.md             # Project documentation
└── vite.config.js / webpack.config.js / next.config.js
(depending on framework)
```

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.

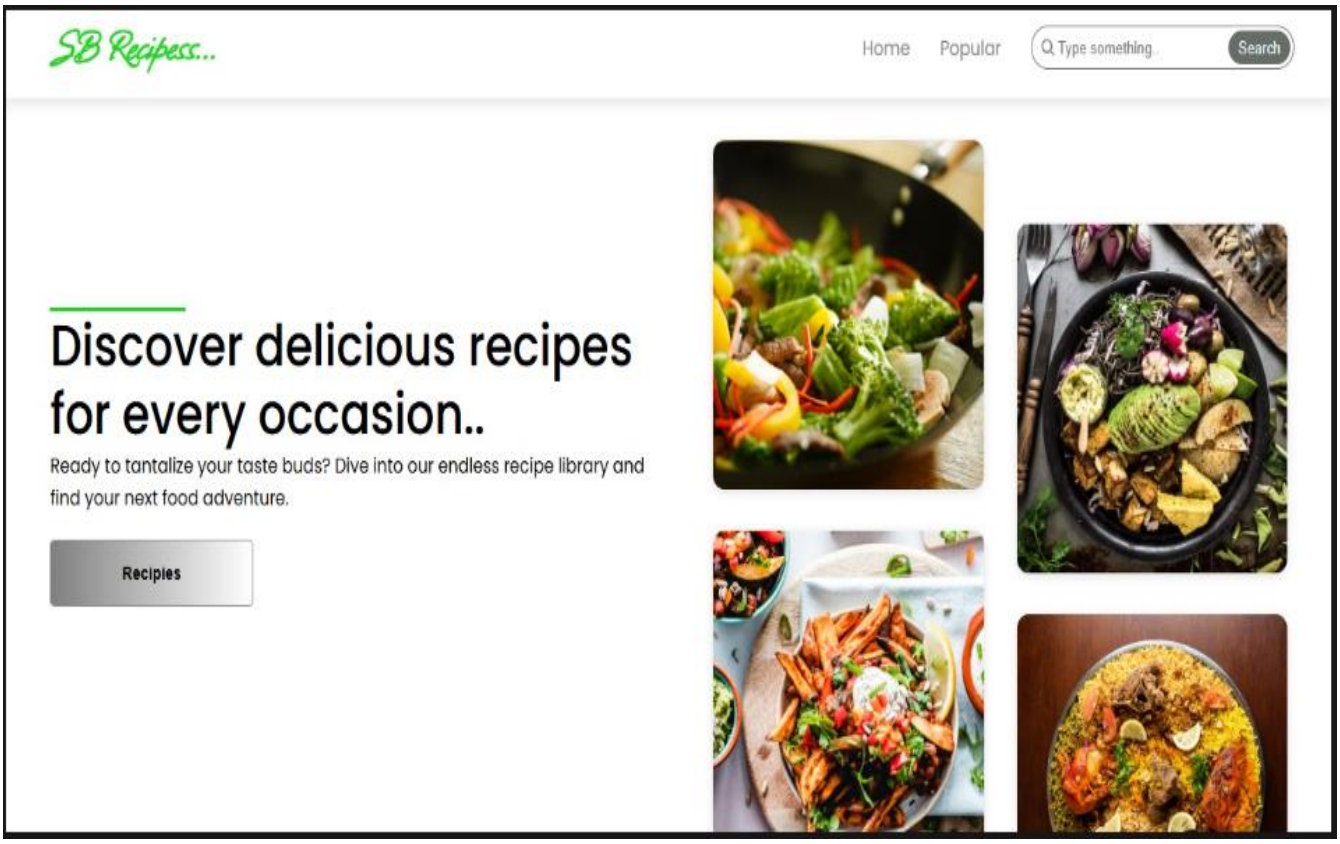
Code Coverage:

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

12. Screenshots or Demo

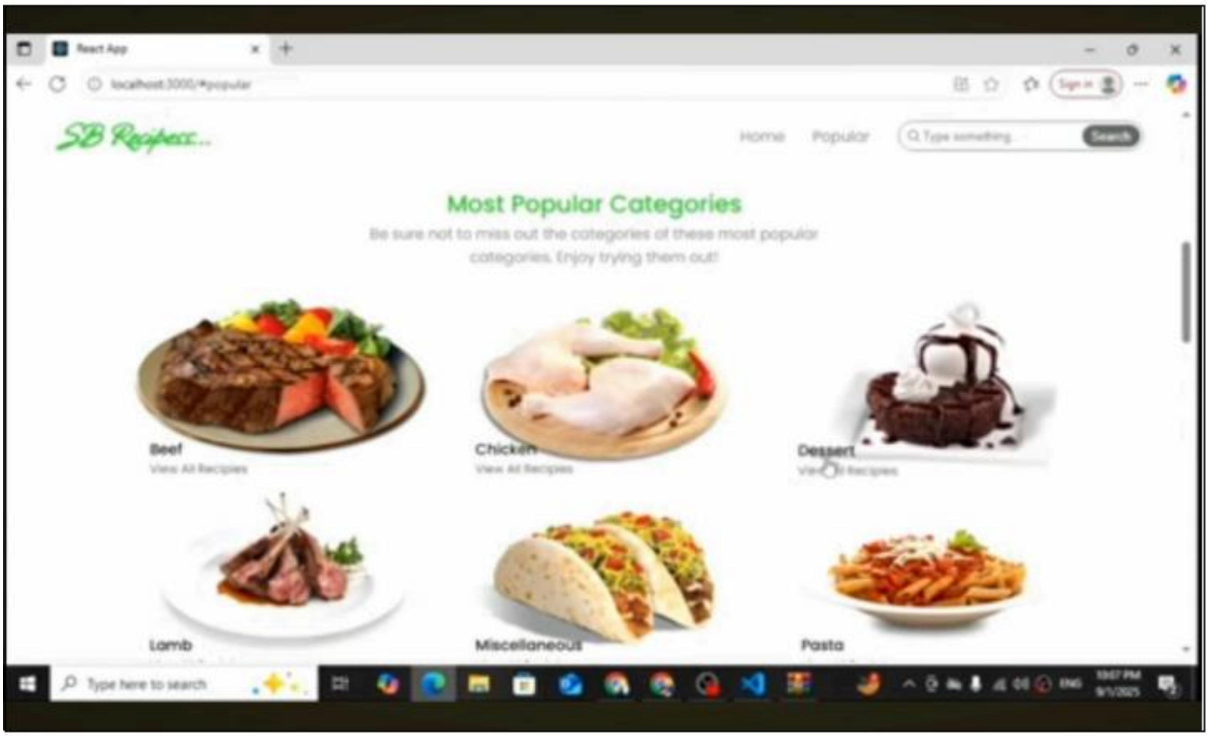
Add actual screenshots or a demo link:

- Demo Link: https://drive.google.com/file/d/10Yb6uK8hyTIn7H6gjF_0TA8pF9BXHY4F/view?usp=drivesdk



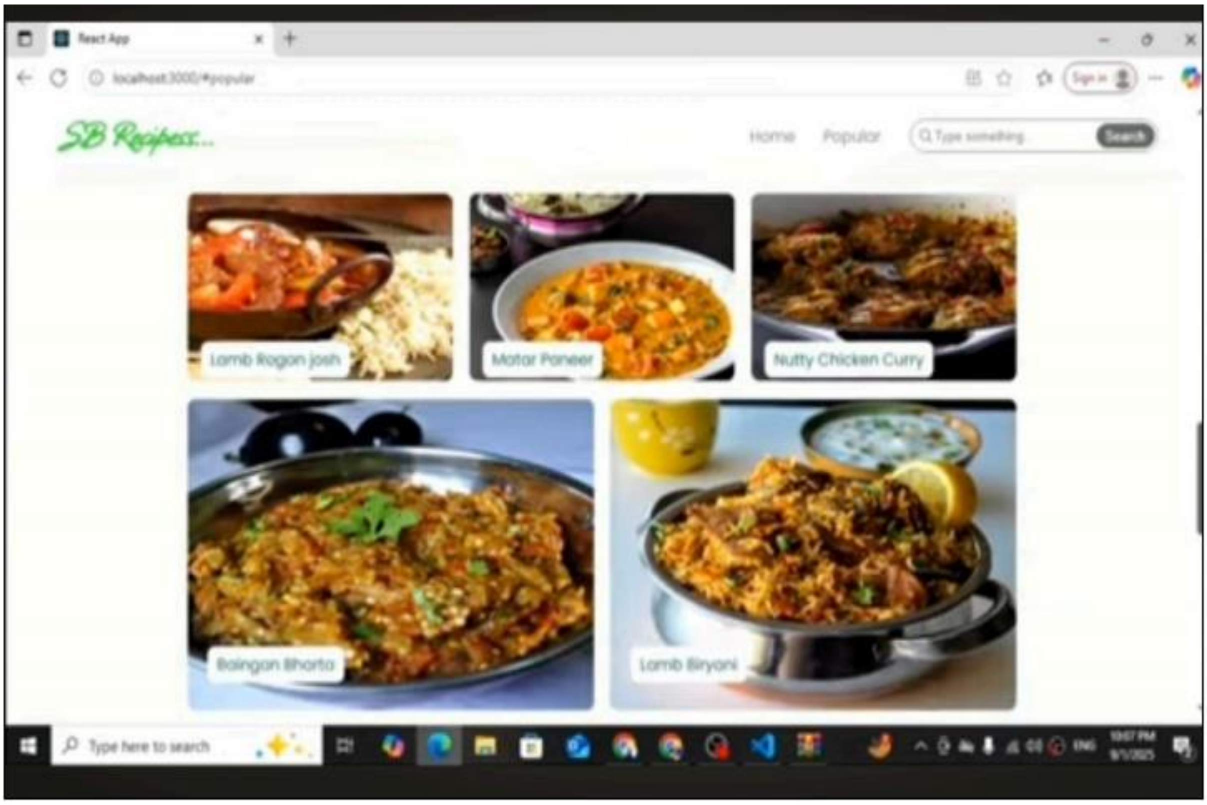
Discover delicious recipes for every occasion..

Ready to tantalize your taste buds? Dive into our endless recipe library and find your next food adventure.



Most Popular Categories

Be sure not to miss out the categories of these most popular categories. Enjoy trying them out!



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