

# NAAN MUDHALVAN PROJECT

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## Cook Book-Your Virtual 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 favorite 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)
- Favorites (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 favorites.

Routing:

React Router v6 handles navigation between Home, Recipe Detail, Favorites, and Add Recipe pages.

### 4. Setup Instructions

Prerequisites:

- Node.js
- MongoDB
- Git
- React.js
- Express.js - Mongoose - Visual Studio Code

Installation Steps

1.Clone the Repository

### 5. Folder Structure

Client:

/src

/components

Header.js

RecipeList.js

RecipeDetail.js

AddRecipeForm.js

```
/pages
  Home.js
  Favorites.js
/context
  RecipesContext.js
/assets
  images/
```

Utilities:

- api.js for fetching recipes from API
- helpers.js for common formatting functions

## 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.

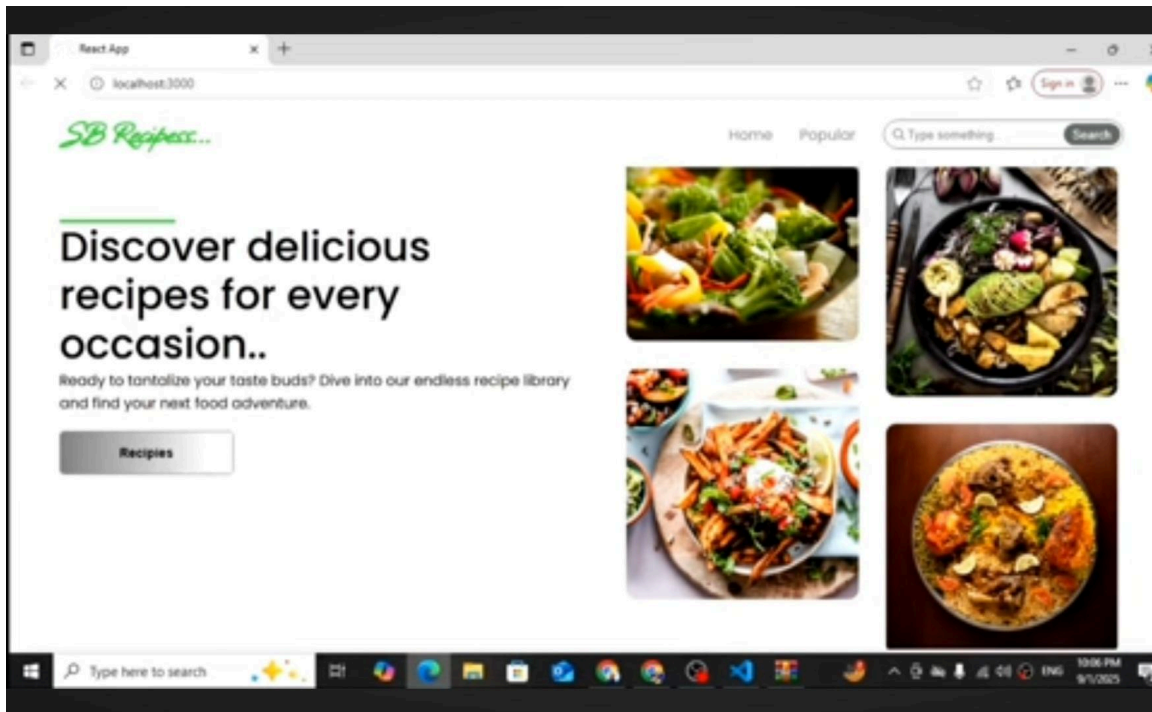
Code Coverage:

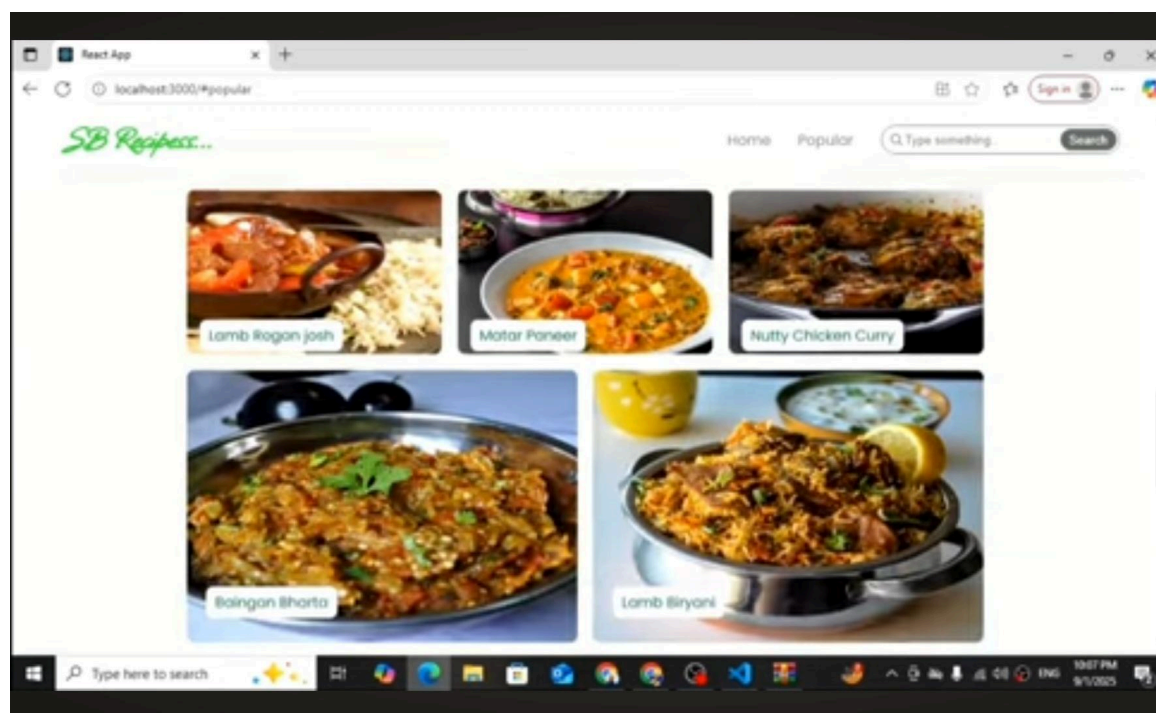
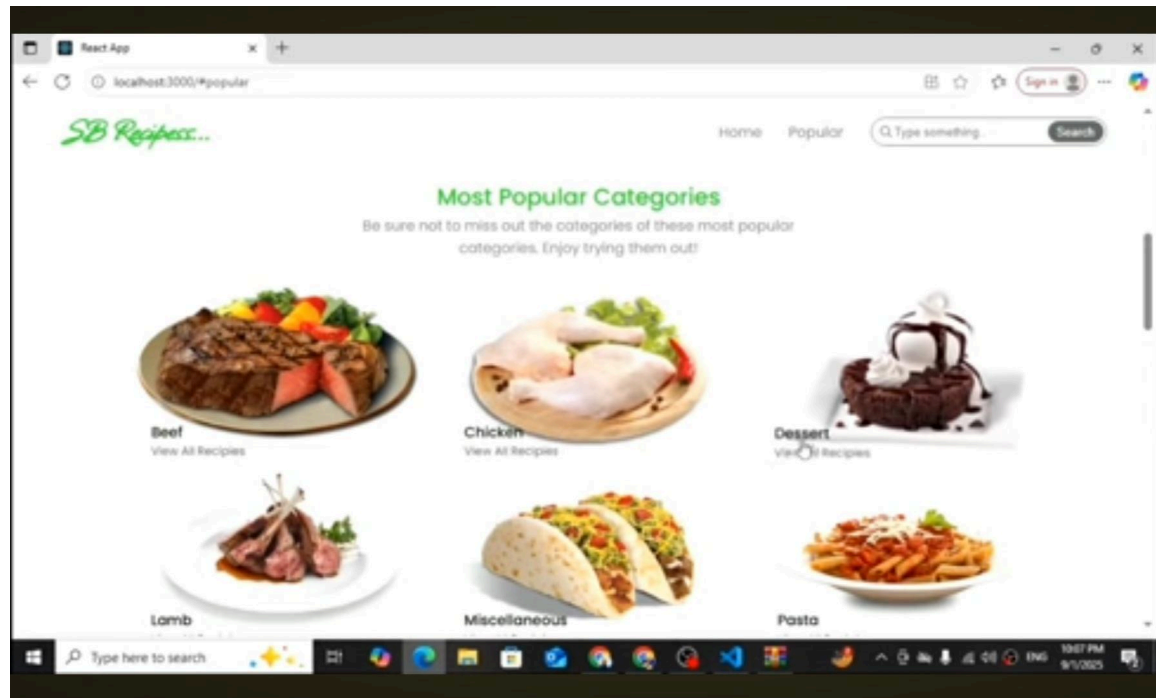
Using jest --coverage to ensure 80%+ coverage.

## 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