

Project Documentation

Project Title: Cook Book: Your Virtual Kitchen Assistant

1. Introduction

- **Project Title:** Cook Book: Your Virtual Kitchen Assistant
- **Team ID:** NM2025TMID35061
- **Team Leader:** Sahana Parveen H
(parveensahana821@gmail.com)
- **Team Members:**
 1. Kanimozhi P
(pkanimozhi848@gmail.com)
 2. Rakkammal P
(rakkammal2007@gmail.com)

3. Narmatha VP

(narmathap20024@gmail.com)

2. Project Overview

Purpose:

Cook Book is a web application that allows users to discover, explore, and save recipes for different occasions. The platform provides an engaging interface where food lovers can browse dishes, search recipes, and view detailed preparation steps.

Features:

- Recipe listing with categories
- Search functionality for recipes
- Detailed recipe view
(ingredients, steps, images)
- User-friendly UI with responsive design
- Home page with featured/popular recipes

3.Architecture

- Frontend:React.js with Bootstraps and Material UI
- Backend:Node.js and Express.js for server-side logic and API endpoints
- Database:MongoDB for storing recipe data,user information,and favorites

4.Setup Instructions

Prerequisites:

- Node.js
- Git
- Visual Studio Code

Instalation Steps:

git clone

cd client

npm install

```
cd../server
```

```
npm install
```

5.Folder Structure

Cook Book-Recipes

|--client/#React frontend

||--components/

||--pages/

|--server/#Node.js backend

||--routes/

||--models/

||--controllers/

6.Running the Application

Fronted:

```
cd client
```

```
npm start
```

Backend:

cd server

npm start

Access:

Visit <http://localhost:3000>

7.API Documentation

- **User APIs:**

- POST/api/user/register
- POST/api/user/login

- **Recipes APIs:**

- POST/api/recipes/create
- GET/api/recipes/:id

- **Applications:**

- POST/api/apply

- **Chats(if integrated in future):**

- POST/api/chat/send
- GET/api/chat/:userId

8.Authentication

- JWT-based authentication for secure login and user sessions
- Middleware protects private routes (e.g., favourites, adding recipes)

9.User Interface

- Landing Page-Recipe categories&featured dishes
- Recipe Details Page-Ingredients,instructions and images
- User Dashboard-Saved/favorite recipes(future enhancement)
- Admin Panel-Manage recipes and user accounts(future enhancement)

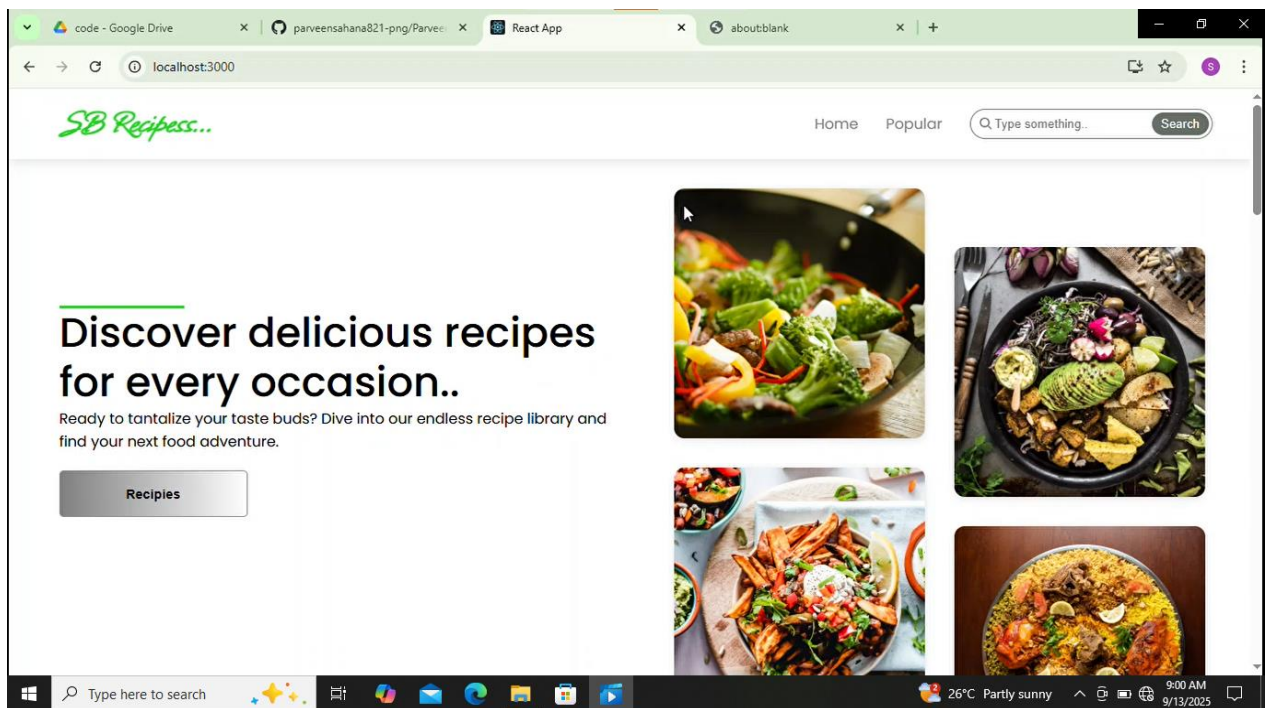
10.Testing

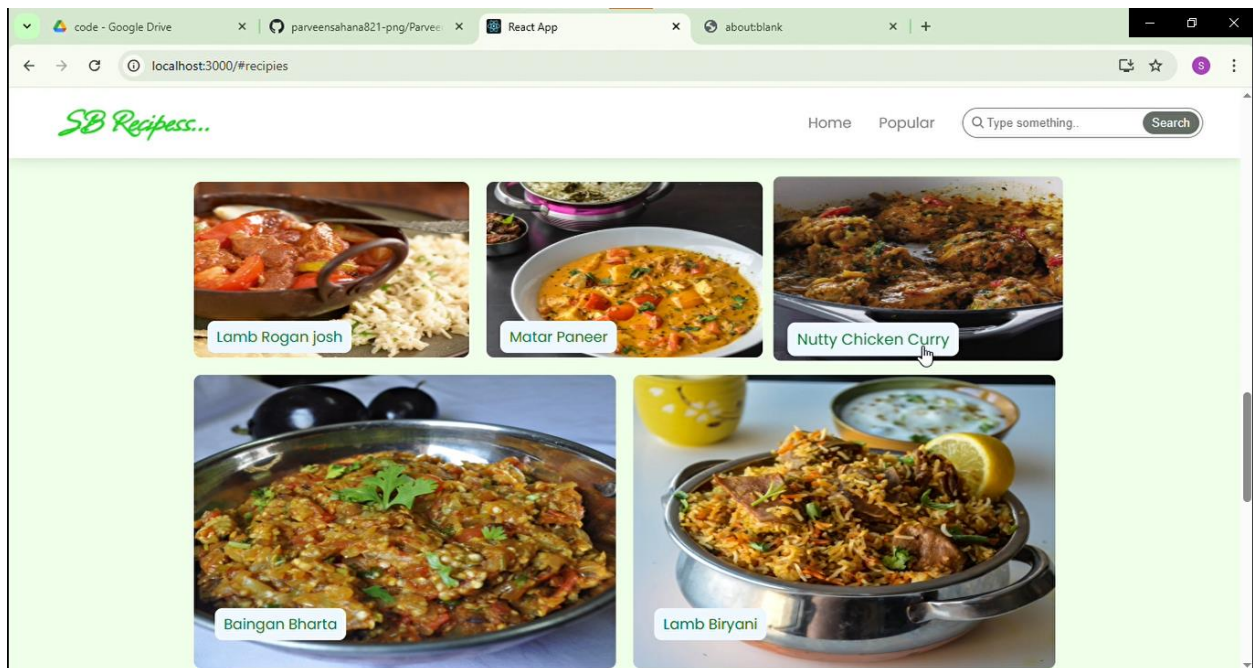
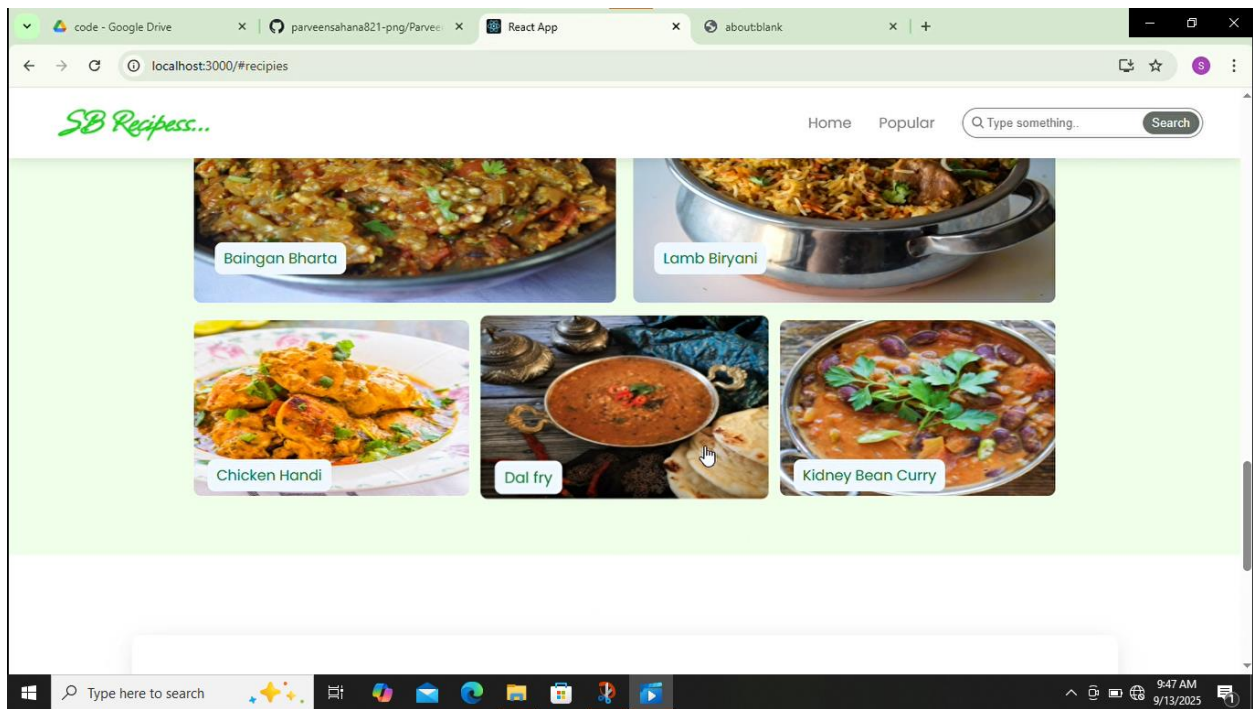
- Manual Testing:Performed during each development milestone

- Tools Used: Postman (API testing), Chrome Dev Tools (UI & responsiveness testing)

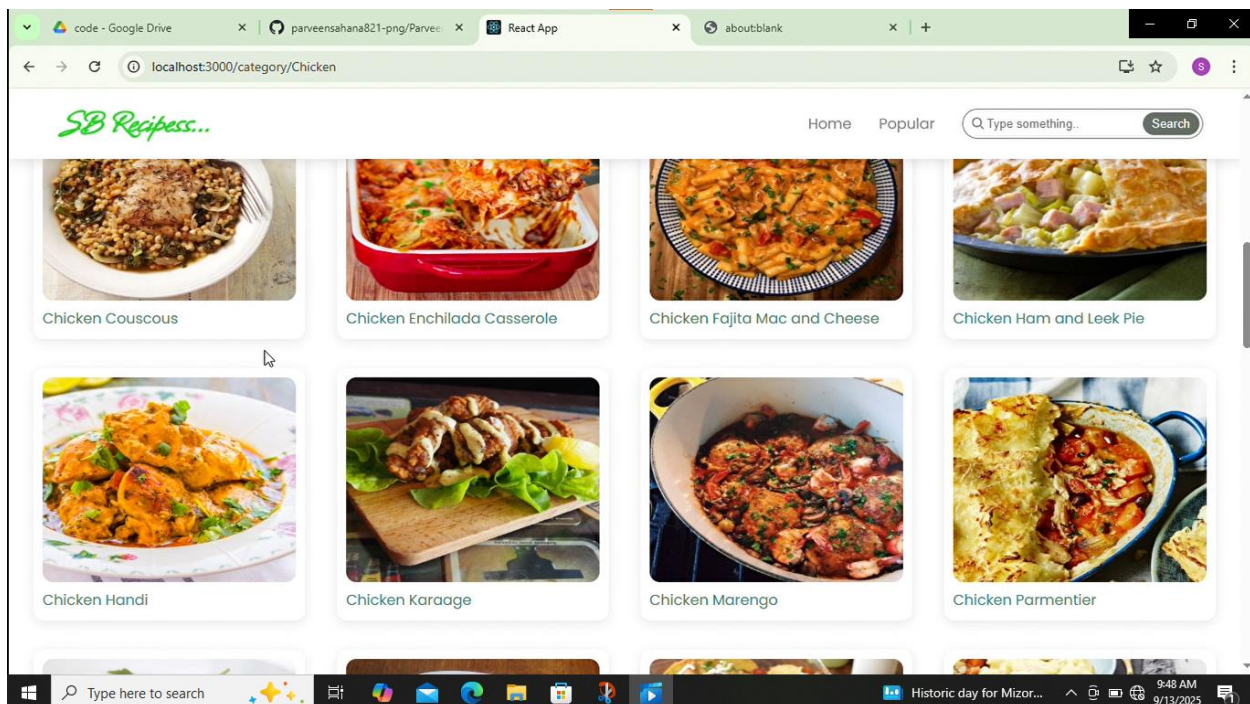
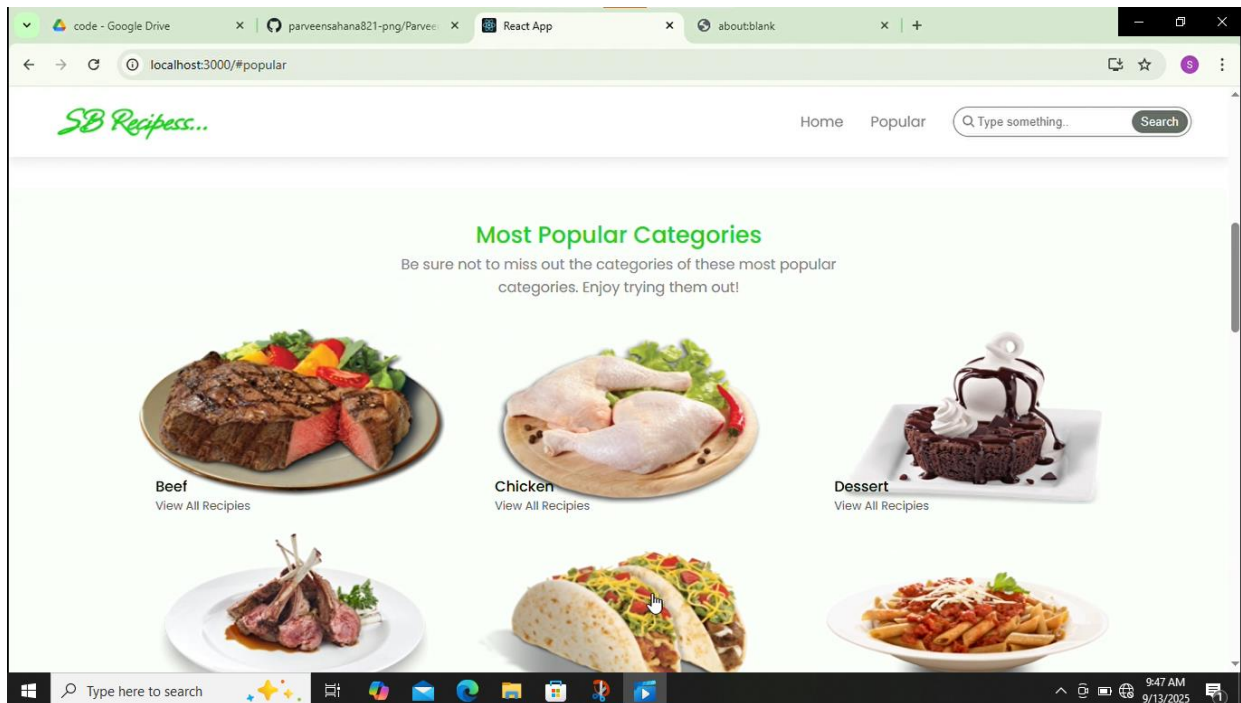
11. Screenshots or Demo

- Landing Page (featured recipes)
- Recipes Details Page





• Most Popular Categories




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localhost:3000/category/Chicken

SB Recipes...


Home Popular Search




Chicken Handi




Chicken Karaage




Chicken Marengo




Chicken Parmentier




Chicken Quinoa Greek Salad



Coq au vin



Crock Pot Chicken Baked Tacos



French Onion Chicken with Roasted Carrots & Mashed Potatoes

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localhost:3000/category/Chicken

SB Recipes...


Home Popular Search




General Tsos Chicken




Honey Balsamic Chicken with Crispy Broccoli & Potatoes




Jerk chicken with rice & peas




Katsu Chicken curry




Kentucky Fried Chicken




Kung Pao Chicken



Nutty Chicken Curry



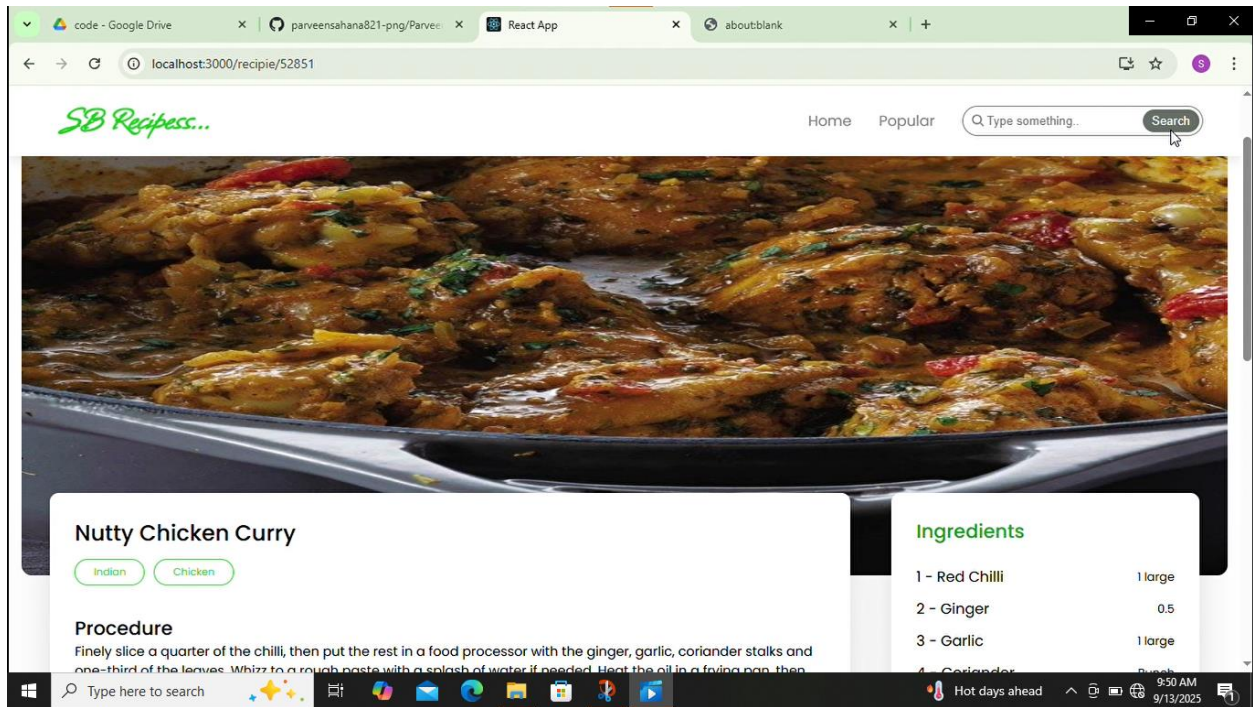
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12. Known Issues

- Limited authentication (basic login, no password reset)
- Search functionality may not handle advanced filters yet
- No image upload by users (only static image currently)

13. Future Enhancements

- User profile management
- Recipe submission by users
- Advanced search and filtering
(e.g.,vegetarian,cuisin-based)
- Rating and review system for recipes
- Mobile app version of Cook Book
Recipes