

1. Introduction

Project Title: CookBook – Your Virtual Kitchen Assistant

Team ID: NM2025TMID40478

Team Leader: Pavithra G (Email: 2006pavithrag@gmail.com)

Team Members:

1. Thamaraiselvi N (Email: thamarainagarajan1212@gmail.com)
2. Revathi E (Email: revathi04042008@gmail.com)
3. Swaranalekha S (Email: swarnadhana2006@gmail.com)

2. Project Overview

Purpose: CookBook is a recipe discovery platform that allows users to explore dishes across different categories, view trending recipes, and search based on their preferences.

Features:

- Recipe browsing by categories (Vegetarian, Chicken, Dessert, etc.)
- Trending dishes section
- Popular categories section
- Search functionality
- User-friendly UI with images and recipe cards

3. Architecture

- Frontend: React.js with Bootstrap and Material UI
- Backend: Node.js and Express.js (optional, if extended)
- Database: MongoDB (for storing recipes, categories, and users)

4. Setup Instructions

Prerequisites:

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

Installation Steps:

1. Clone the repository: git clone
2. Install client dependencies: cd client && npm install
3. Install server dependencies: cd ../server && npm install

5. Folder Structure

```
CookBook/  
|-- client/ # React frontend  
|   |-- components/
```

```
| |-- pages/  
|-- server/ # Node.js backend (optional)  
| |-- routes/  
| |-- models/  
| |-- controllers/
```

6. Running the Application

Frontend:
cd client
npm start

Backend:
cd server
npm start

Access at: <http://localhost:3000>

7. API Documentation

User:
- /api/user/register
- /api/user/login

Recipes:
- /api/recipes/:category
- /api/recipes/trending

Search:
- /api/recipes/search?q=

8. Authentication

- JWT-based authentication for secure login
- Middleware protects private routes (if backend is enabled)

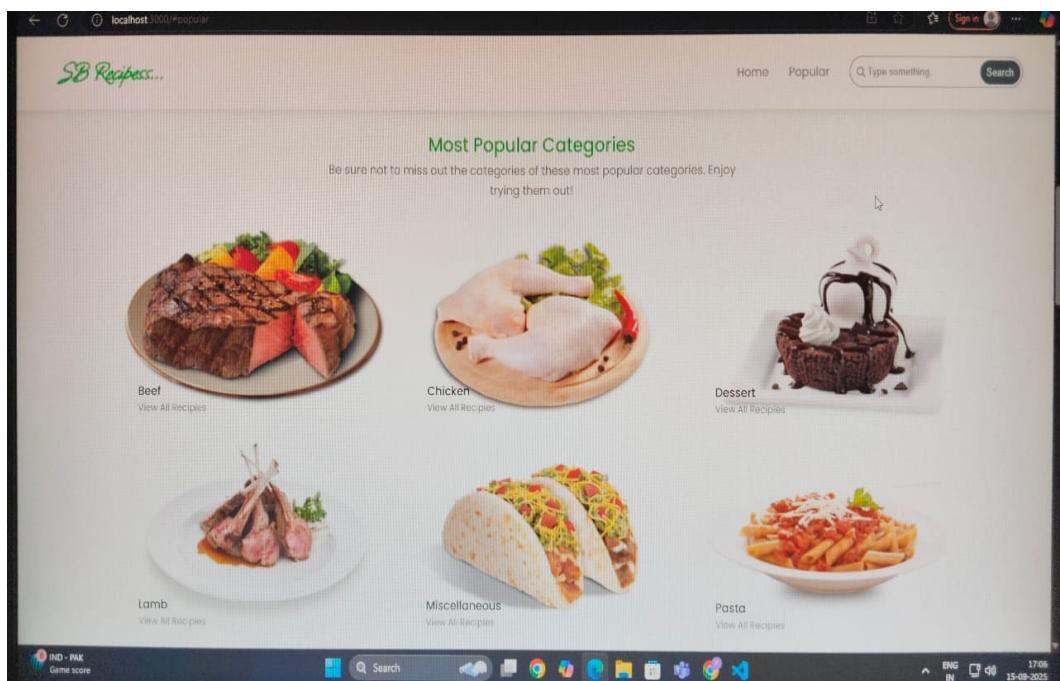
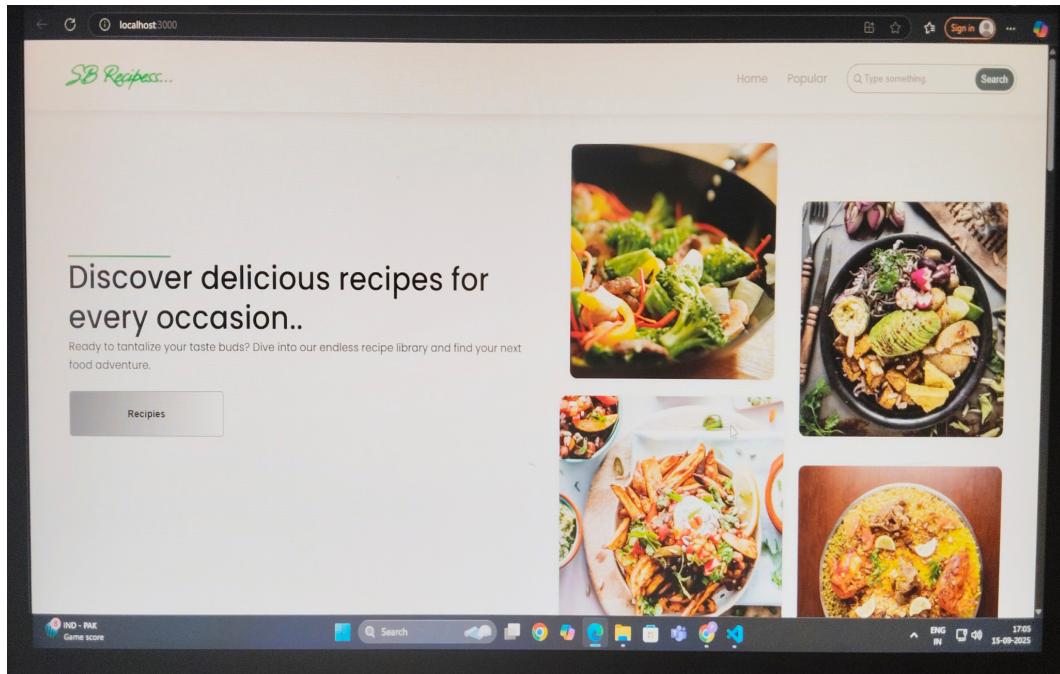
9. User Interface

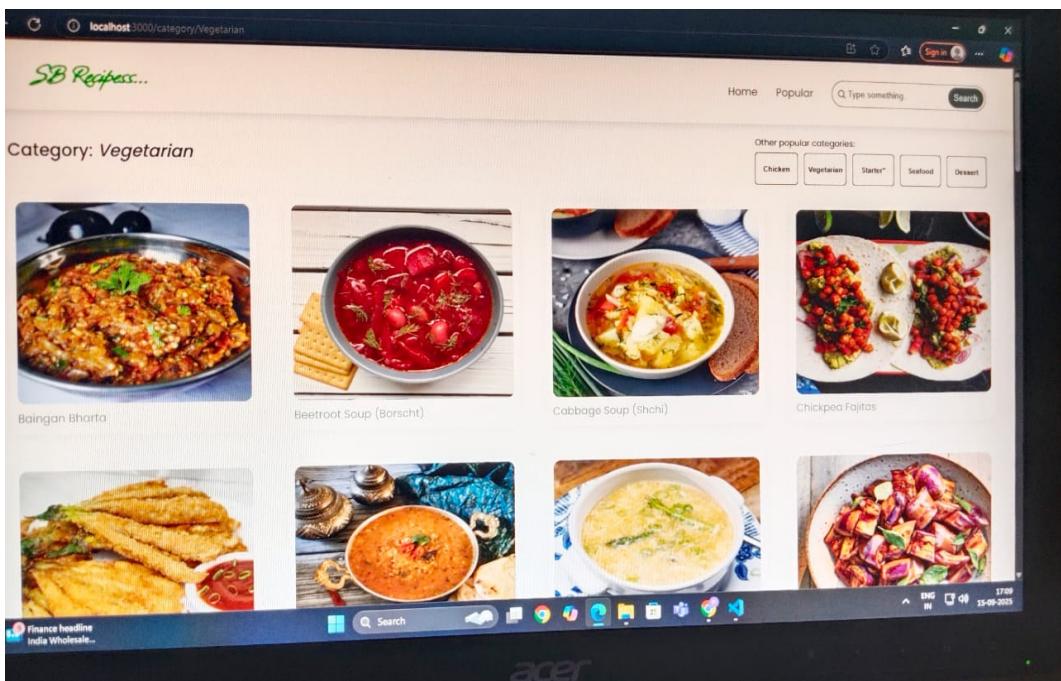
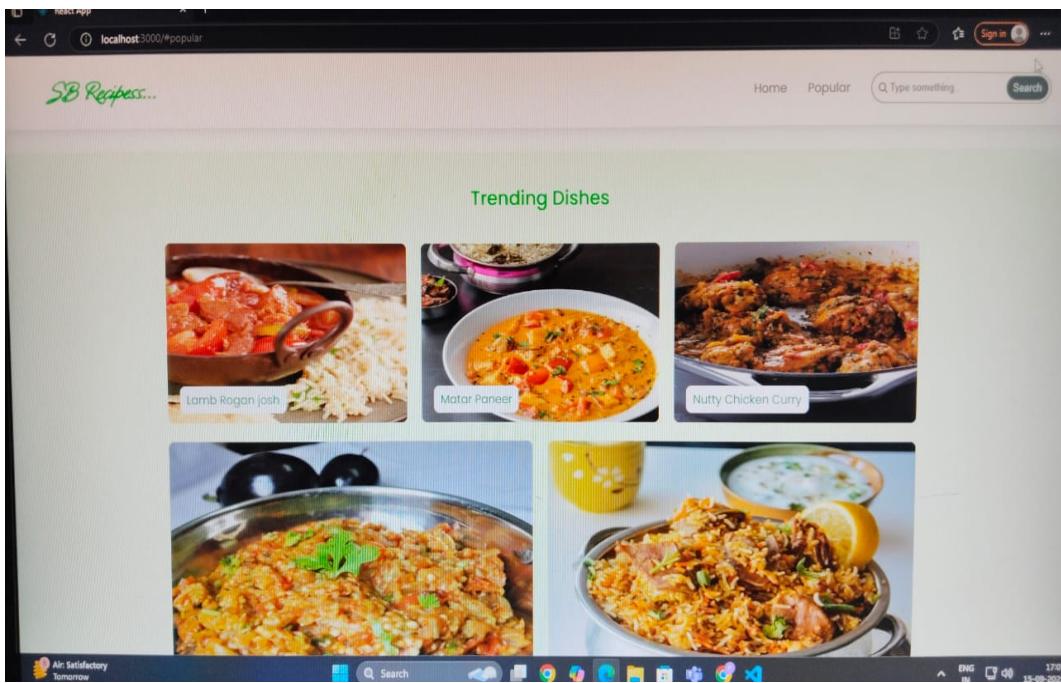
- Landing Page
- Popular Categories Page
- Trending Dishes Page
- Category-specific Pages (e.g., Vegetarian, Dessert, Chicken)
- Search functionality

10. Testing

- Manual testing during milestones
- Tools: Postman, Chrome Dev Tools, Browser testing

11. Screenshots or Demo





SB Recipe...

localhost:5000/category/Dessert

Category: Dessert

Other popular categories:

- Chicken
- Vegetarian
- Starter*
- Seafood
- Dessert

Apam balik

Apple & Blackberry Crumble

Apple Frangipan Tart

Bakewell tart

33°C Haze

Search

12. Known Issues

- Limited backend functionality (currently focused on frontend UI)
- No user authentication fully implemented
- Recipe data is static (needs dynamic API integration)

13. Future Enhancements

- Implement full backend with user accounts and authentication
- Enable users to add their own recipes
- Rating and review system for recipes
- Advanced search and filtering options
- Mobile responsive design improvements