

1. Introduction

Project Title: CookBook – Your Virtual Kitchen Assistant

Team ID: NM2025TMID40468

Team Leader: Pooja S (Email: lavanyasuresh198305@gmail.com)

Team Members:

1. Sivasankari M (Email: msivasankari237@gmail.com)
2. Manjupriya M (Email: manju20priya06@gmail.com)
3. Yuvasri B (Email: mnagarajnagaraj43@gmail.com)

4. Yuvasri G (Email: yuvasrig2006@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

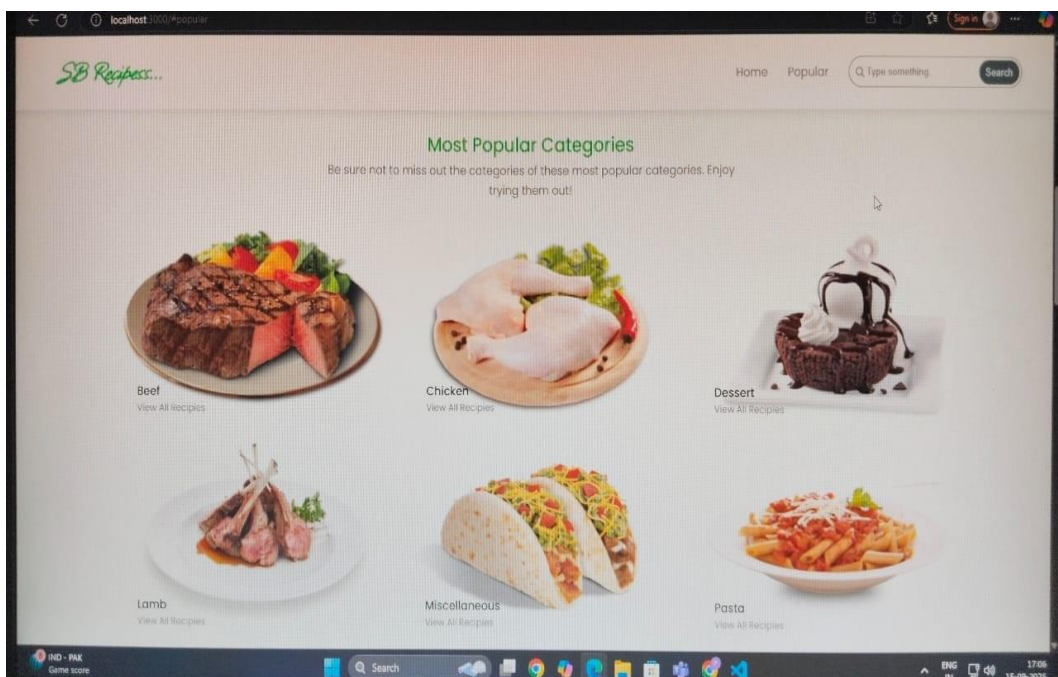
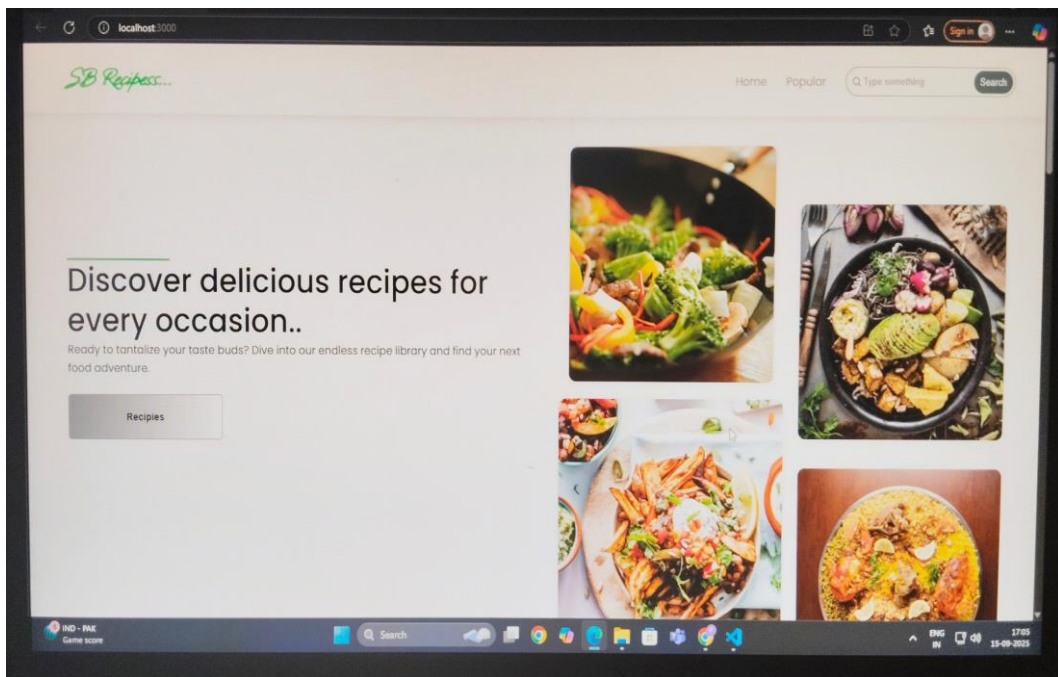
- Landing Page
- Popular Categories Page

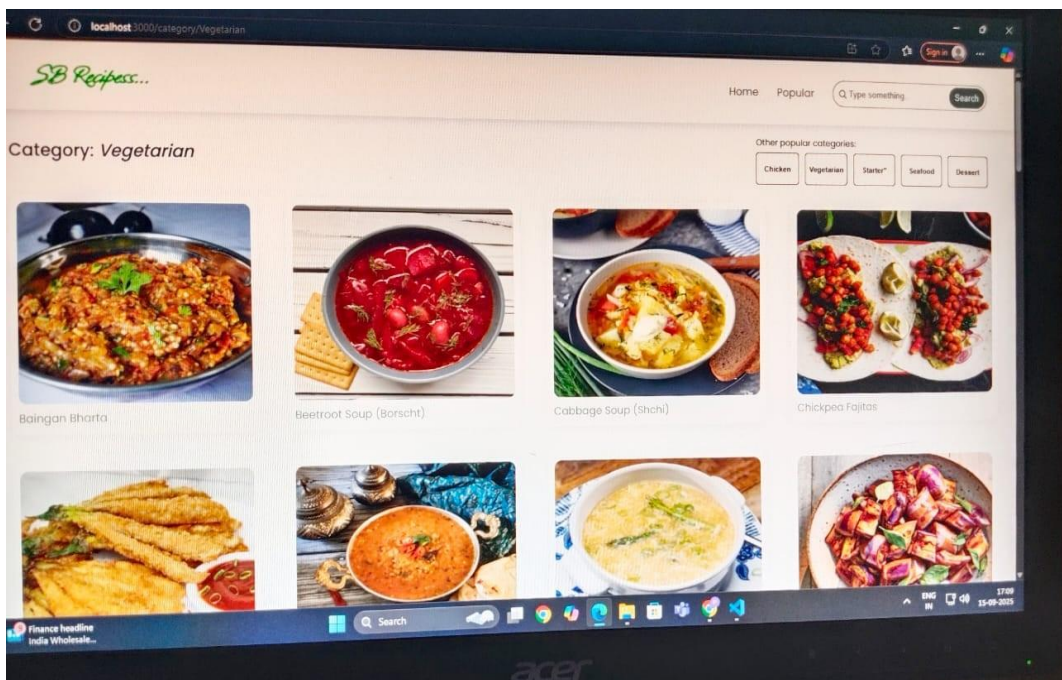
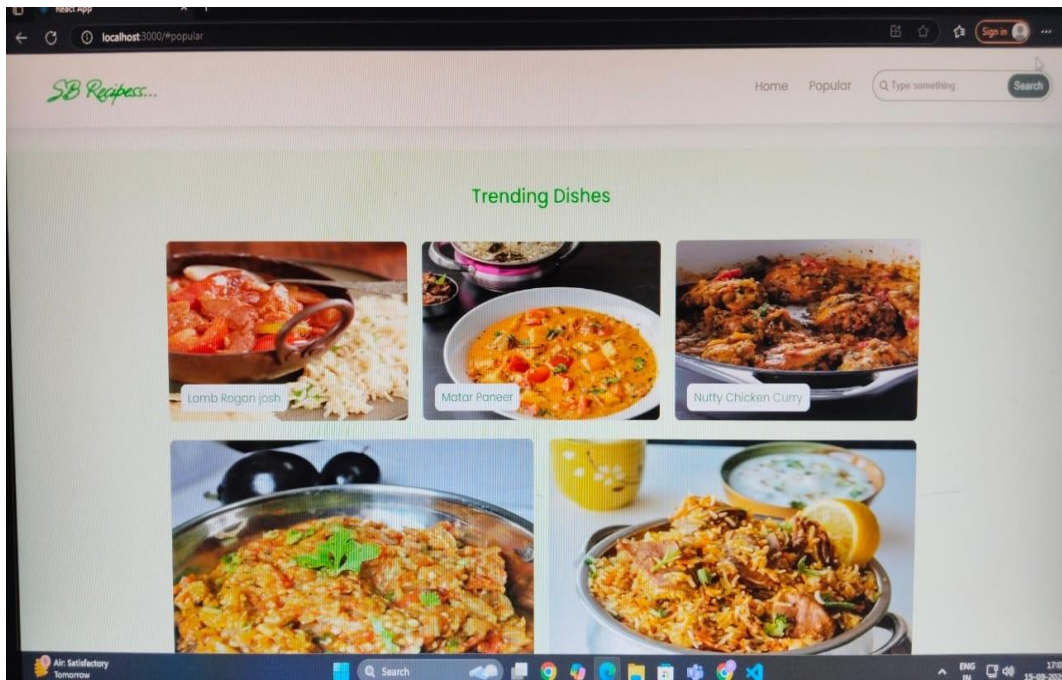
- Trending Dishes Page
- Category-specific Pages (e.g., Vegetarian, Dessert, Chicken) - Search functionality

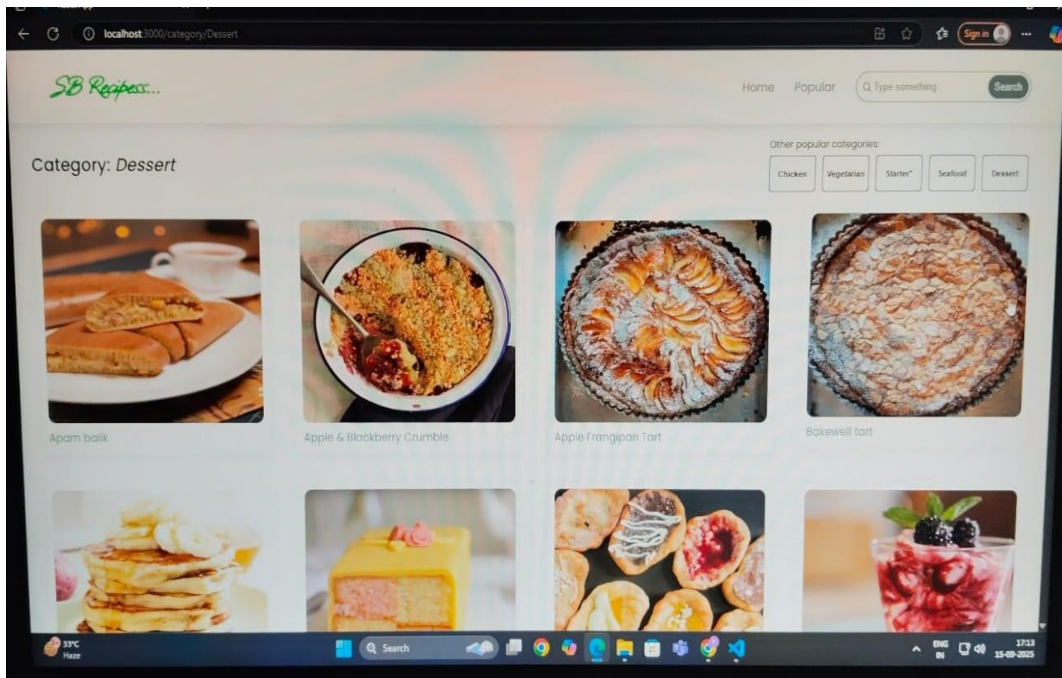
10. Testing

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

11. Screenshots or Demo







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