

# Project Documentation

## 1. Introduction

- **Project Title:** CookBook: Your Virtual Kitchen Assistant.
- **Team ID :** NM2025TMID40281
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## 2. Project Overview

- **Purpose:**  
CookBook is a web application designed to help users discover, save, and manage recipes. It serves as a virtual kitchen assistant, allowing users to find new meal ideas, view detailed cooking instructions, and maintain a personal collection of their favorite recipes.
- **Features:**
  - User registration and login system.
  - Browse and search for recipes from a wide database.
  - View detailed recipe information including ingredients, instructions, and cooking time.
  - Save favorite recipes to a personalized user dashboard.
  - Responsive user interface for use on various devices.

## 3. Architecture

- **Frontend:** React.js with Bootstrap and Material UI
- **Backend:** Node.js and Express.js managing server logic and API endpoints
- **Database:** MongoDB stores user data, project information, applications, and chat messages

## 4. Setup Instructions

- **Prerequisites:**
  - Node.js
  - MongoDB

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

## • Installation Steps:

# Clone the repository git clone

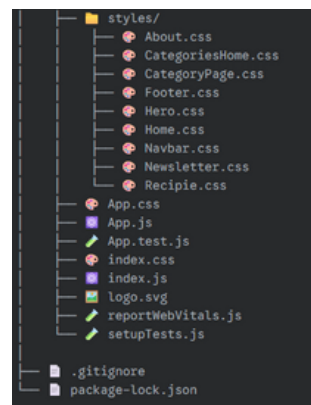
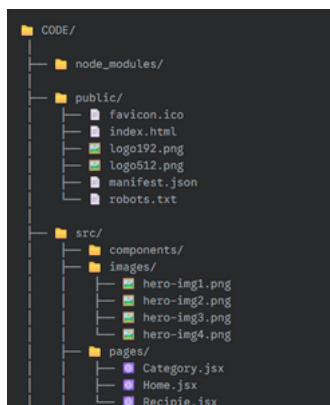
# Install client dependencies cd

client npm install

# Install server dependencies cd

../server npm install

## 5. Folder Structure :



## 6. Running the Application

### • Frontend:

cd client

npm start

### Backend:

cd server npm

start

- **Access:** Visit <http://localhost:3000>

## 7. API Documentation

### • User:

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

### • Projects:

- /api/projects/create
- /api/projects/:id • **Applications:** /api/apply

- **Chats:**

- /api/chat/send
- /api/chat/:userId

## 8. Authentication

- JWT-based authentication for secure login
- Middleware protects private routes

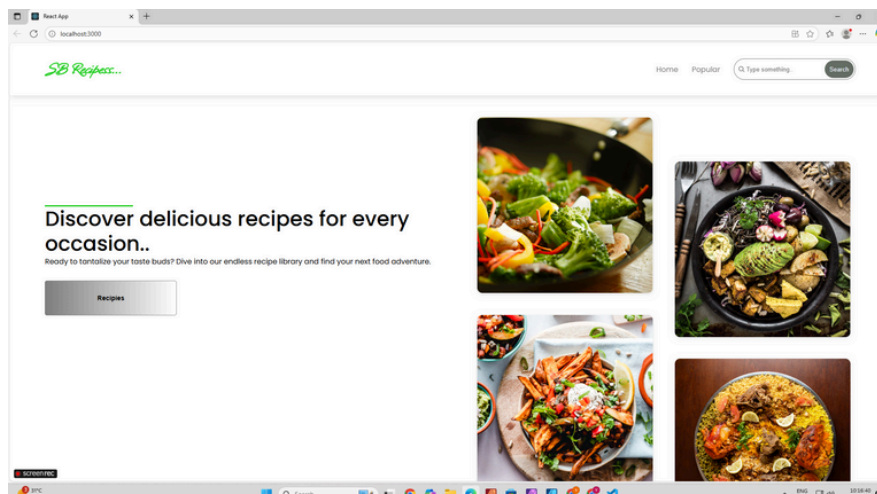
## 9. User Interface

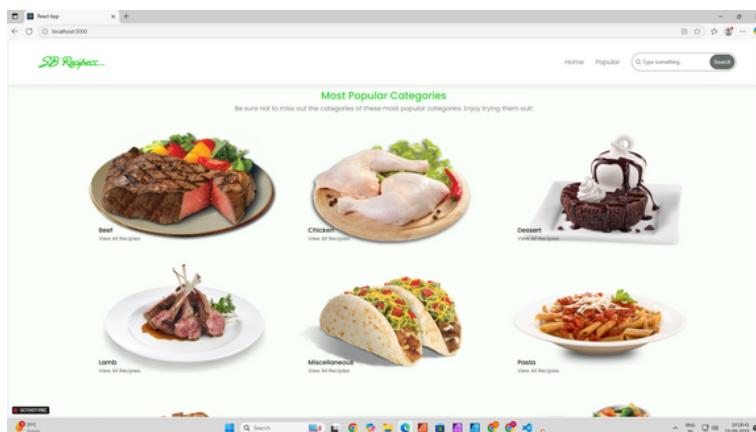
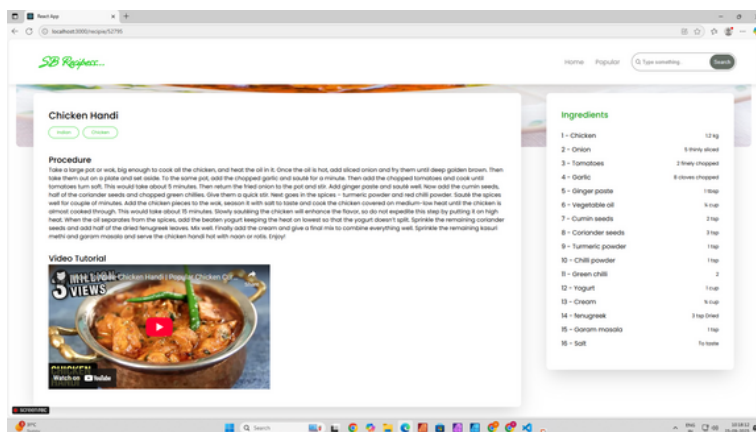
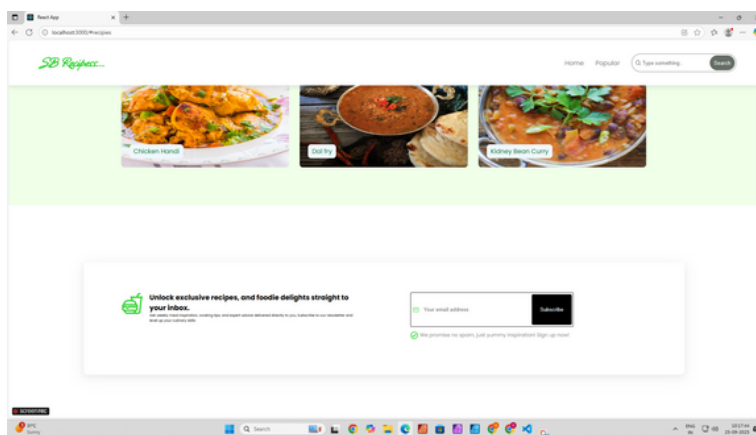
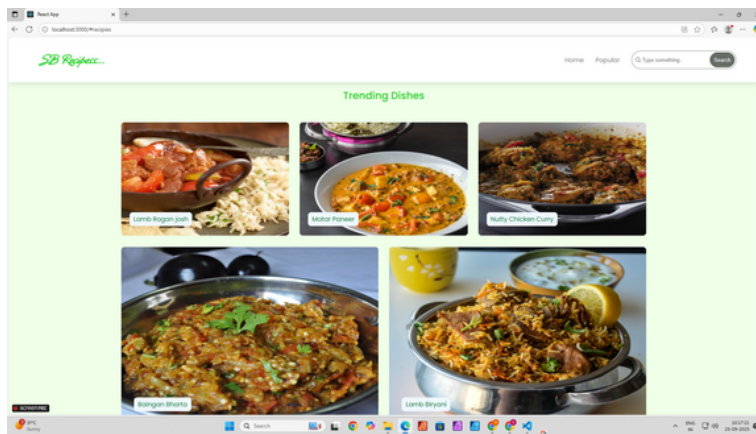
- Landing Page
- Freelancer Dashboard
- Admin Panel
- Project Details Page

## 10. Testing

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

## 11. Screenshots :





## **12. Known Issues Future :**

- There are no major known issues or bugs documented for the application at this time. The core functionality for user authentication and real-time messaging operates as expected.

## **13. Future Enhancement :**

**Several features are being considered for future development to expand the application's capabilities. 🚀 Potential enhancements include:**

- **Group Chat:** Implementing functionality for users to create or join multi-user chat rooms.
- **File Sharing:** Allowing users to send images, documents, and other media files within chats.
- **Push Notifications:** Adding notifications to alert users of new messages when they are not actively using the application.
- **User Profiles:** Creating customizable user profiles with avatars and status messages.
- **Typing Indicators:** Showing when another user is actively typing a message in the chat.