Project Documentation

1. Introduction

• PROJECT TITLE: COOKBOOK: YOUR VIRTUAL KITCHEN ASSISTANT

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2. Project Overview

• **Purpose:** Team-Sanmayog is a dynamic and intuitive real-time chat application. It is designed to provide users with a seamless and interactive communication experience. The platform facilitates instant messaging, allowing users to connect and chat with each other efficiently and securely.

Features:

- User Authentication: Secure user registration and login functionality.
- Real-Time Messaging: Instantaneous sending and receiving of messages with other users.
- Online User Status: View a list of currently online users.
- Responsive Design: A user-friendly interface that adapts to various screen sizes.

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

The user interface is built with

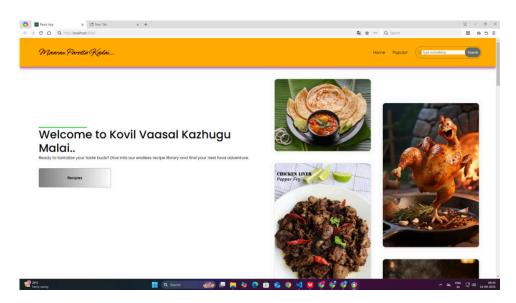
React.js and is designed to be clean and intuitive. The primary components of the UI include:

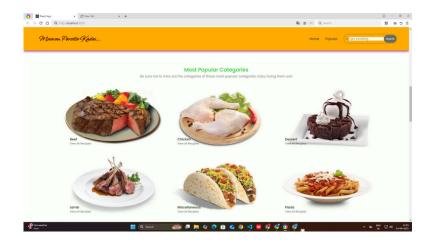
- Login/Registration Pages: Forms for new user signup and existing user sign-in.
- Chat Interface: The main screen where users can see messages in real-time, view a list of online users, and send new messages.
- Responsive Design: The layout is built to be functional and visually appealing across different devices, such as desktops and mobile phones.

10. Testing

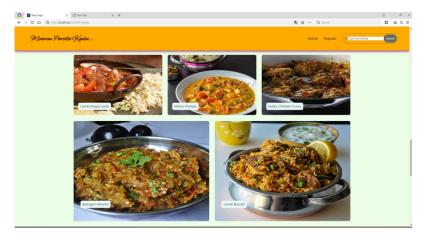
- Manual testing during milestones
- Tools: Postman, Chrome Dev Tools

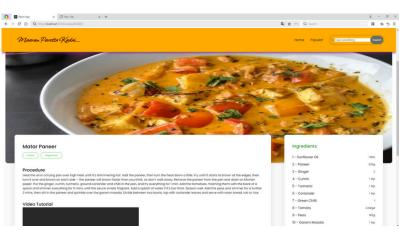
11. Screenshots or Demo











12. Known Issues:

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 Enhancements

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.