

Project Documentation

CookBook:Your Virtual Kitchen Assistant

1. Introduction

- Project Title: CookBook: Your Virtual Kitchen Assistant
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2.Project Overview

- **Purpose:** The purpose of "**Cookbook: Your Virtual Kitchen Assistant**" is to help users cook smarter with personalized recipe suggestions, meal planning, and ingredient tracking. It offers real-time support and expert guidance to simplify the cooking process. The platform enhances kitchen efficiency and reduces food

waste. It also connects users with culinary freelancers for customized help.

- **Features:**

- Project posting and bidding
- Secure chat system
- Feedback and review system
- Admin control panel

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

SB-Works/

|-- client/

React frontend

|__components/

|__pages/

|__server/

Node.js backend

|__routes/

|__models/

|__controllers/

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/creat

- /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 or demo

A Demo of how to use the nan mudhalvan training

A screenshot of the nan mudhalvan portal(like dashboard,login page,etc.)

12. Known Issues

Website or App Performance issues

Slow loading times

Occasional downtime or server error

13. Future Enhancements

- Use AI to suggest courses based on user skills, interest