Project Documentation

CookBook: Your Virtual Kitchen Assistant

1.Introduction

The **Cookbook** project is an innovative React-based application designed specifically for cooking enthusiasts. Its primary goal is to facilitate the management and exploration of recipes, allowing users to create, edit, and share their culinary creations

• Project Title:CookBook

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1.Project Overview

The Cookbook project is an innovative React-based application created for cooking enthusiasts to easily manage and explore recipes. It offers a simple yet powerful way to create new recipes by adding titles, ingredients, and preparation steps. Users can also edit existing recipes or delete them when no longer needed, ensuring flexibility in recipe management. With its clean and user-friendly interface, the app provides a smooth cooking experience for all users. Recipes are displayed in an organized format, making it easy to read and follow instructions. The project highlights the use of React state management and component-based design, showcasing modern front-end development practices. It also encourages creativity by allowing users to document and refine their culinary ideas. Being lightweight and efficient, the Cookbook app is accessible even for beginners. As a personal project, it reflects innovation and practical application of coding skills. Overall, it serves as a convenient digital companion for anyone passionate about cooking.

• Purpose: SB Works connects clients and freelancers through project postings, bidding, and

real-time communication.

• 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

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– 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/

L\_\_ 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:

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– /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 or Demo

12. Known Issues

13. Future Enhancements