Project Documentation

COOK BOOK\_YOUR VIRTUAL KITCHEN

1.INTRODUCTION:

Project Title: COOK BOOK YOUR VIRTUAL KITCHEN

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2.PROJECT OVERVIEW:

Purpose:

The project aims to create a digital cookbook and virtual kitchen assistant that helps users discover,organize,and cook recipes interatively.it blends recipe management with smart cooking guidance.

Features:

\*Recipe library

\*smart ingredient suggestions

\*Step-by-step virtual cooking assistant

\*Nutritional Insights

\*Shopping list Generator

\*Community Sharing

3.ARCHITECTURE:

\*Frontend: Recipes search and filtering(by cuisine,ingredients)

\*Backend:Shopping list and meal planning services

\*Database:Title,ingredients,steps,nutrition,facts,media.

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:

COOK-BOOK/

|--client/ #React frontend

|\_components/

|\_Node.js

backend/

|\_server/

|\_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/create

\_ /api/projects/:I'd\*applications:/api/apply

\*Chats:

\_ /api/chat/send

\_ /api/chat/:userId

8.AUTHENTICATION:

\*JWT-Based authentication for secure login

\* Middleware products private routes

9.USER INTERFACE:

\* Landing page

\*Freelancer dashboard

\*Admin panel

\*Project details page

10.TESTING:

\*Manual testing during milestones

\*Tools: postman , crome dev tools

11.SCREENSHOTS OR DEMO:

[**https://drive.google.com/file/d/1L9IS9KNquAfyvCodILioBTHnIAcc7-Q4/view?usp=drivesdk**](https://drive.google.com/file/d/1L9IS9KNquAfyvCodILioBTHnIAcc7-Q4/view?usp=drivesdk)

12.KNOWN ISSUES :

\*Image upload may fail on low bandwidth

\*Search speed decreases with very large dataset

\*No offline support yet

13.FUTURE ENHANCEMENTS:

\*AI-powered recipe recommendations

\*Nutrition calculator per recipe

\*Voice-assisted cooking mode

\*Mobile app (iOS/Android)