

Cookbook:

Your Virtual Kitchen Assistant



Student Name, Course
Crojse / 2013



❖ **INTRODUCTION:**

- **Project Title :** Cookbook:
Your Virtual Kitchen Assistant.
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❖ **PROJECT OVERVIEW:**

- **Purpose:**

Cookbook is an interactive platform designed to assist users in meal planning ,recipe discovery,ingredient management and step-by-step cooking guidance using virtual assistant features.

- **Features:**

- ✓ . Recipe search and recommendation.
- ✓ Meal planner and grocery list generator.
- ✓ Step-by-step cooking instructions.
- ✓ Ingredient substitution and dietary filtering.
- ✓ Interactive chat-based kitchen assistance.

❖ **ARCHITECTURE:**

- **Frontend:**React.js with Bootstrap and Material UI for intuitive user interface.
- **Backend:**Node.js and Express.js to manage server logic and API endpoints.
- **Database:**MongoDB to store user data,recipes,meal plans,shopping list and chat history.

❖ **SETUP INSTRUCTIONS:**

- **Prerequisites:**

- ✓ Node.js
- ✓ MongoDB
- ✓ Git
- ✓ Basic JS
- ✓ Express.js
- ✓ Mongoose
- ✓ Visual Studio Code

- Installation Steps:

- 1.Clone the repository:

text

`git clone<repo-url>`

- 2.Install client dependencies:

text

`cd client`

`npm install`

- 3.Install server dependencies:

text

`cd server`

`npm install`

❖ **FOLDER STRUCTURE:**

Cookbook/

```
├── client/      # React frontend
|   ├── components/
|   ├── pages/
├── server/      # Node.js backend
|   ├── models/
|   ├── controllers/
|   └── routes/
```

❖ RUNNING THE APPLICATION:

- Frontend:

text

cd client

npm start

- Backend:

Text

cd server

npm start

❖ API DOCUMENTATION:

- User:

- ✓ /api/user/register

- ✓ /api/user/login

- Recipes:

- ✓ /api/recipes/search

- ✓ /api/recipes/favourite

- Meal Plans:

- ✓ /api/mealplan/create

- ✓ /api/mealplan/userid

- Chat Assistant:

- ✓ /api/chat/send

- ✓ /api/chat/history

❖ **AUTHENTICATION:**

- ✓ **JWT-based authentication** for secure login.
- ✓ Middleware protects private routes.
- ✓ **Role-Based Access Control (RBAC).**
- ✓ **Password Hashing & Encryption:** User credentials are stored securely using hashing algorithms

❖ **USER INTERFACE:**

- ✓ Landing Page(intro, feature highlights)
- ✓ Recipe Explorer
- ✓ Meal Planner
- ✓ Grocery list Page
- ✓ Virtual Assistant Chat
- ✓ Profile&Preferences

❖ **TESTING:**

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

❖ SCREENSHOTS:



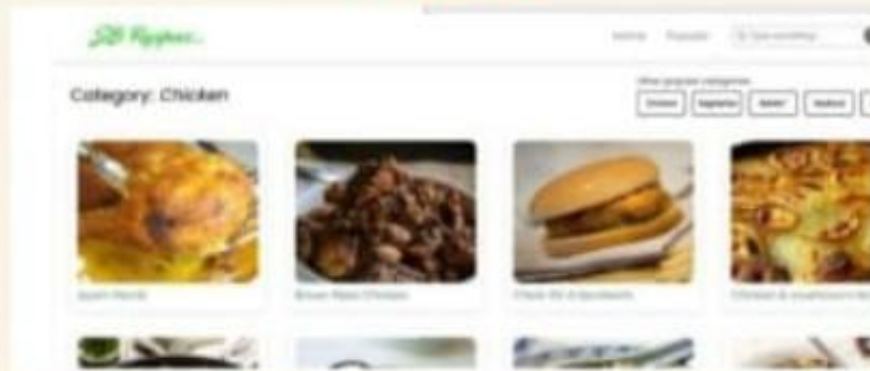
PROJECT IMPLEMENTATION & EXECUTION

POPULAR CATEGORIES





CATEGORY DISHES PAGE



RECIPE PAGE & INGREDIENTS





❖ **KNOWN ISSUES:**

- ✓ Document any bugs, feature limitations or performance bottlenecks

❖ **FUTURE ENHANCEMENTS:**

- ✓ Integration with smart Kitchen devices.
- ✓ Advanced voice assistant features.
- ✓ Social recipe sharing.
- ✓ Personalized nutrition recommendation.

“Let medicine be thy food and food be thy medicine”