

Cookbook:

Your Virtual Kitchen Assistant



Student Name, Course
Croatia / 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:**

- Frontened:

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:**

WELCOME TO COOKBOOK

NAAN MUDHALVAN PROJECT

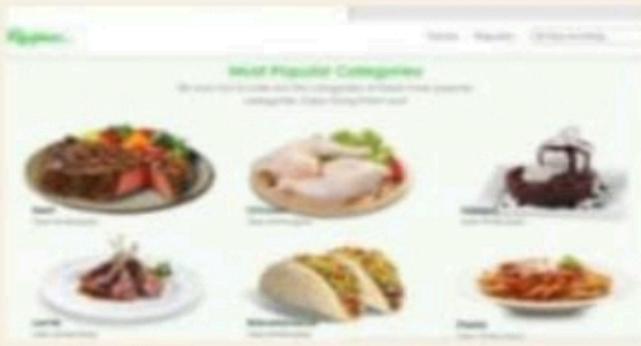
INTRODUCTION

Tired of the endless "what's for dinner?" debate? Look no further! Our revolutionary food app is your ultimate culinary companion, designed to transform the way you discover, cook, and enjoy food. We've curated a world of flavors, from quick and easy weeknight meals to gourmet creations, all within a few taps. Whether you're a seasoned chef or a kitchen novice, our intuitive interface and personalized recommendations will guide you on a delicious journey. Get ready to explore a universe of recipes, effortlessly plan your meals, and connect with a community of fellow food lovers. Welcome to a new era of eating, where every meal is an adventure waiting to happen.



PROJECT IMPLEMENTATION & EXECUTION

POPULAR CATEGORIES



TRENDING DISHES



NEWS LETTER....



CATEGORY DISHES PAGE

Category: Chicken



Honey Mustard



Brown Sugar Glazed



Crock Pot Macaroni



Italian Sausage & Peppers

RECIPE PAGE & INGREDIENTS



Chicken Alfredo Penne

Chicken Alfredo Penne
A creamy, delicious pasta dish featuring tender chicken pieces, al dente penne pasta, and a rich, velvety Alfredo sauce. This comforting meal is perfect for a weeknight dinner or a special occasion. The combination of flavors is simply irresistible.

Ingredients	Quantity	Notes
1 lb. Chicken	1 lb.	
1 lb. Penne	1 lb.	
1/2 cup Butter	1/2 cup	
1/2 cup Heavy Cream	1/2 cup	
1/2 cup Parmesan Cheese	1/2 cup	
1/2 cup Panko Bread Crumbs	1/2 cup	
1/2 cup Fresh Herbs (Optional)	1/2 cup	

VIDEO PAGE



Thank You

- **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”