**Project Documentation**

**Cookbook**

1. **Introduction:**

* ***Project Title*: COOKBOOK**
* ***Team ID:* NM2025TMID41724**
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1. **Project Overview:**

**Purpose:**

**Cookbook is a digital platform that lets users explore recipes organized by meal types such as Breakfast, Lunch, Dinner, Snacks, and Appetizers.**

**Features:**

* + **Browse recipes by meal category.**
  + **Each page lists a curated set of recipes.**
  + **Reusable header and footer for consistent layout.**
  + **Clean design with readable fonts and warm colors.**
  + **Easy to add new meals or recipes.**
  + **Placeholder for future interactivity with JavaScript.**

1. **Architecture:**

**Frontend:**

**The user interface is built with React.js, using Bootstrap and Material UI for responsive and styled components. Components include Header, Footer, Home (listing meal categories), and MealPage (showing recipes for a selected meal).**

**Backend:**

**The server is built with Node.js and Express.js, handling API endpoints for fetching recipes, managing user interactions, and serving dynamic content if needed.**

**Database:**

**MongoDB stores data such as user information, meal and recipe details, and any future interactive features like comments or ratings.**

1. **Setup Instructions:**

**Prerequisites:**

* + **Visual Studio Code (or any code editor)**
  + **Optional: Live Server extension for real-time preview in the browser**

**Installation:**

* + **Download or clone the project folder.**
  + **Open the folder in VS Code: File > Open Folder.**
  + **Open index.html with Live Server (right-click > Open with Live Server) or open directly in a browser.**
  + **The website will launch locally, allowing you to navigate meal categories and recipes.**

1. **Folder Structure:**

**cook Book/**

**├── code/**

**│ └── src/**

**│ ├── components/**

**│ │ └── CategoriesHome.jsx**

**│ ├── styles/**

**│ │ └── CategoriesHome.css**

**│ ├── images/**

**│ │ ├── hero-img1.png**

**│ │ ├── hero-img2.png**

**│ │ ├── hero-img3.png**

**│ │ └── hero-img4.png**

**│ ├── App.jsx**

**│ ├── index.js**

**│ └── routes/**

**│ └── index.js**

**├── package.json**

**└── README.md**

**6. Running the Application:**

**Frontend:**

**cd cookbook**

**npm install**

**npm start**

**Backend:**

**cd server**

**npm install**

**npm run dev**

**7.Authentication:**

**Planned Feature:**

**The web application is designed to support JWT-based authentication for secure login in future versions.**

**Middleware Protection:**

**Private routes can be secured via server-side middleware to allow access only to authenticated users.**

**8.User Interface:**

**The web application provides a simple and intuitive interface for browsing recipes by meal type.**

**Landing Page:**

**The homepage (index.html) displays a list of meal categories: Breakfast, Lunch, Dinner, Appetizers, and Snacks. Users can click a category to view recipes.**

**Meal Pages:**

**Each meal page (e.g., breakfast.html) lists recipes for that meal and includes a link back to the homepage.**

**9.Testing:**

* + **Manual testing was performed during different milestones to ensure links, layout, and content display correctly.**
  + **Focused on UI functionality and responsiveness, as the current version is a static site.**

**Tools used:**

* + **Chrome DevTools – for inspecting elements, debugging layout, and monitoring console errors.**
  + **Postman – can be used in future versions if API endpoints are implemented.**

**10. Known Issues:**

* + **Certain sections of the website are currently inactive and will be fully functional in future updates.**
  + **The website requires an active internet connection for full functionality and cannot be used offline.**

**11. Future Enhancements:**

* + **Add user login for personalized access.**
  + **Enable offline access to recipes.**
  + **Include more recipes and meal categories.**
  + **Add search and filtering features.**