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# FRONT-END COOKBOOK WEBSITE

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## **1.INTRODUCTION:**

### **1.1:Brief Introduction to the Project**

The *Cookbook Website* is a front-end web development project that provides users with an interactive platform to explore and learn different recipes. Unlike traditional cookbooks, this digital platform is designed to make cooking simple, enjoyable, and accessible through well-structured content and user-friendly navigation. The website offers a collection of recipes presented with detailed ingredients, step-by-step instructions, and visually appealing layouts. Developed using **HTML, CSS, JavaScript, and React**, the project ensures responsiveness, interactivity, and a modern design that caters to the needs of today's digital users.

### **1.2:Why This Project?**

Cooking is not only a necessity but also a creative and joyful activity. In the fast-paced modern lifestyle, many people rely on digital resources to quickly access recipes and cooking tips. The motivation behind creating this project was to build a platform that combines **learning, convenience, and creativity**. As part of the coursework in front-end development, this project also serves as a practical application of the technical knowledge gained. It provides an opportunity to integrate coding skills with real-world use cases while delivering value to users who are passionate about food.

### **1.3:Objectives of the Project**

The main objectives of developing the *Cookbook Website* are:

- To design and develop a user-friendly platform for accessing diverse recipes.
- To present recipes with clear steps, ingredients, and visual appeal.
- To apply front-end technologies such as **HTML, CSS, JavaScript, and React** in a practical project.
- To demonstrate skills in web design, responsiveness, and interactivity.
- To create a digital cookbook that is accessible to beginners as well as cooking enthusiasts.
- To encourage users to explore, learn, and experiment with new dishes in an engaging way.

## 2. Problem Statement

In today's fast-paced lifestyle, many people struggle to find reliable and easy-to-follow recipes online. Traditional cookbooks are often limited in scope, while recipe blogs and videos can be cluttered, time-consuming, and difficult to navigate. Users may spend more time searching for a suitable recipe than actually cooking.

The *Cookbook Website* addresses this problem by providing a **centralized, organized, and user-friendly platform** where recipes are clearly categorized and presented with step-by-step instructions. This allows users to quickly access the information they need and focus on the cooking experience rather than wasting time searching.

### **Example:**

"Finding recipes quickly is often difficult, so this website provides categorized, easy-to-access recipes."

## 3. Scope of the Project

### 3.1: What the Project Covers:

The *Cookbook Website* is designed to serve as a digital recipe book with an interactive and user-friendly interface. The scope of this project includes:

- **Recipe Collection:** A variety of recipes displayed with ingredients, preparation steps, and cooking methods.
- **Categorization:** Recipes are organized into categories (e.g., starters, main course, desserts) for quick access.
- **User-Friendly Design:** A simple, attractive, and responsive interface that adapts to different screen sizes.
- **Interactive Features:** Navigation menus, clickable recipe cards, and smooth browsing enabled through React components.
- **Front-End Development:** Built using HTML, CSS, JavaScript, and React to demonstrate core web development skills.
- **Practical Application:** Provides a platform for learners and food enthusiasts to easily access and try new dishes.

### 3.2: What is Not Covered (Limitations)

While the project demonstrates key front-end development concepts, certain advanced features are beyond the current scope. These include:

- **No User Accounts:** The website does not include user registration, login, or personalized recipe saving.
- **No Backend / Database Integration:** Recipes are static and not stored or retrieved from a database.
- **No Real-Time Updates:** Users cannot add, edit, or share their own recipes within the website.
- **Scalability:** The recipe collection is limited to a sample set and does not cover a large database of global cuisines.

## 4.System Requirements

### 4.1:Hardware Requirements

To develop and run the *Cookbook Website*, the following minimum hardware configuration is required:

<b>Device</b>	Laptop
<b>Processor</b>	Intel(R) Core(TM) i5-8350U CPU @ 1.70GHz
<b>RAM</b>	8GB
<b>Storage</b>	238GB
<b>Display</b>	1920x1080

### 4.2:Software Requirements

The project is built using front-end technologies and requires the following software setup:

Category	Requirement
<b>Operating System</b>	Windows 10
<b>Code Editor</b>	Visual Studio Code (VS Code)
<b>Programming Languages</b>	HTML, CSS, JavaScript
<b>Framework/Library</b>	React.js
<b>Runtime Environment</b>	Node.js (with npm package manager)
<b>Browser</b>	Google Chrome
<b>Version Control</b>	Git (for managing project versions)

## **5.Methodology / Project Development**

### **5.1:Planning and Design Steps Followed**

The development of the *Cookbook Website* was carried out in a systematic manner, beginning with planning and progressing to implementation:

1. **Idea Generation:** Decided to create a digital cookbook website to present recipes in an organized and interactive way.
2. **Requirement Analysis:** Identified the features needed, such as recipe display, categorization, and responsive design.
3. **Design Phase:** Created a basic layout and wireframe for the website, focusing on user-friendly navigation and visual appeal.
4. **Technology Selection:** Selected HTML, CSS, JavaScript, and React as the core technologies.
5. **Implementation:** Developed the front-end components, styled the website, and integrated React for interactivity.
6. **Testing:** Verified functionality on different browsers and devices to ensure responsiveness.
7. **Documentation:** Prepared a formal report to present the development process and outcomes.

### **5.2:Tools and Technologies Used**

- **HTML5** – For structuring web pages.
- **CSS3** – For styling and layout design.
- **JavaScript** – For adding interactivity.
- **React.js** – For building reusable UI components and efficient rendering.
- **Node.js & npm** – For managing dependencies and running the React application.
- **Visual Studio Code (VS Code)** – As the primary code editor.
- **Web Browser (Google Chrome)** – For testing and running the project.

## 6. Project Workflow:

The workflow of the *Cookbook Website* describes how users interact with the system and how the project functions internally.



## **7.Features Implemented**

The *Cookbook Website* has been developed with the following features to provide an interactive and user-friendly cooking experience:

### **1. Homepage Design**

- A visually appealing homepage serves as the entry point of the website.
- It includes a navigation menu, banners, and quick links to categories for easy access.
- The design ensures responsiveness so it can be viewed on laptops, desktops, and mobile devices.

### **2. Recipe Categories**

- This categorization helps users quickly browse and locate recipes based on their preference.

### **3. Recipe Details**

- Each recipe page displays:
  - **Ingredients** – clearly listed with quantities.
  - **Step-by-step Procedure** – detailed cooking instructions.
  - **Videos** – to make the content visually engaging.
- The layout is simple, clear, and beginner-friendly.

### **4. Search / Filter Options (*if added*)**

- Users can search for recipes by name or filter based on categories.
- This reduces browsing time and helps users find the exact recipe they want.

### **5. Subscription and Feedback Section**

- A section is provided where users can subscribe to receive updates, newsletters, or recipe collections.

## [7.1:User Interface Design and Screenshots](#)

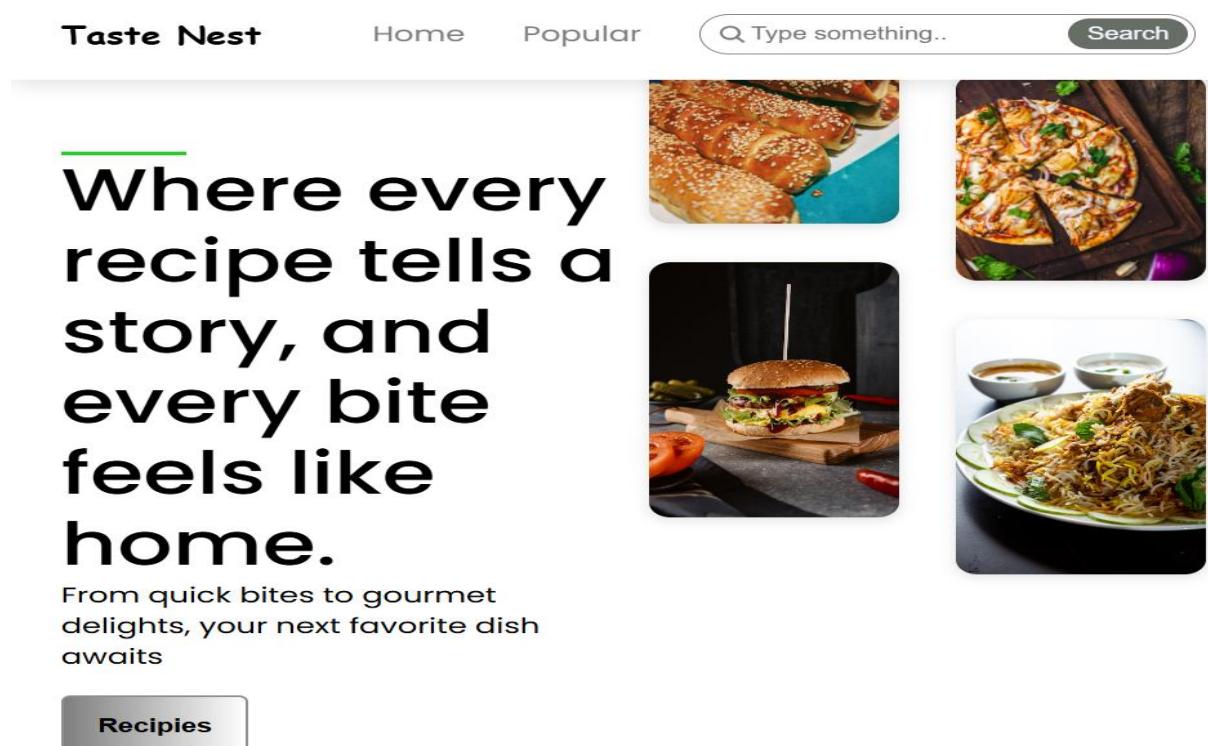
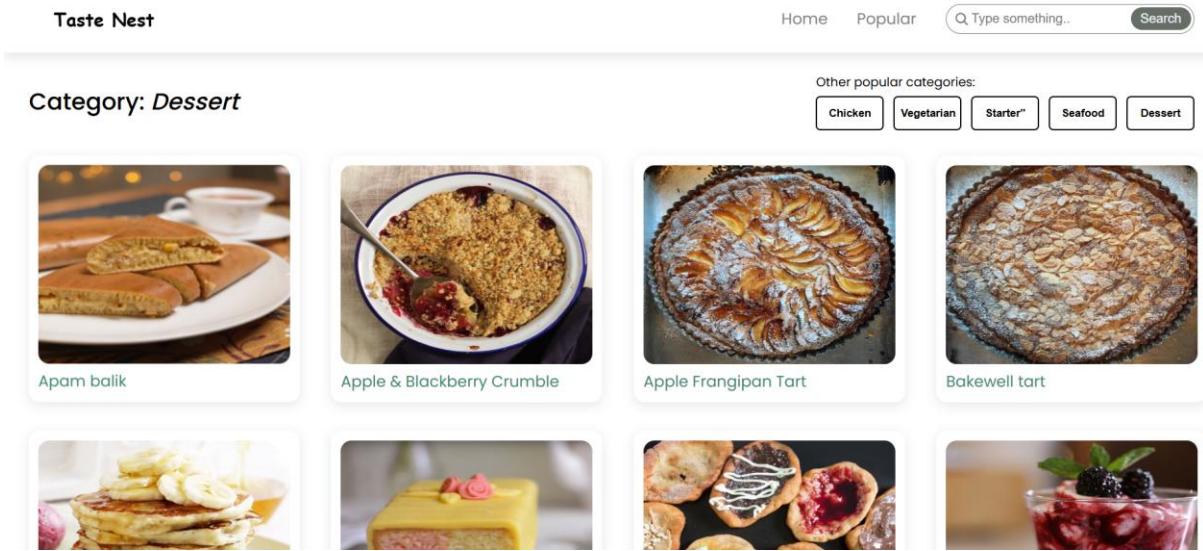


Figure1: Homepage Explores – Displaying Featured Food Images



Figure 2: Navigation Menu



**Figure 3:** Recipe Categories Page

Ingredients	
1 - Water	1/2 cup
2 - Yeast	2 parts
3 - Sugar	1/2 cup
4 - Milk	1/2 cup
5 - Butter	6 tbbsp
6 - Eggs	2
7 - Salt	1 1/2 tsp
8 - Flour	2-1/2 cups
9 - Oil	for frying
10 - Lemon	garnish
11 - Sugar	garnish
12 - Cinnamon	garnish

**Figure 4:** Recipe Details Page

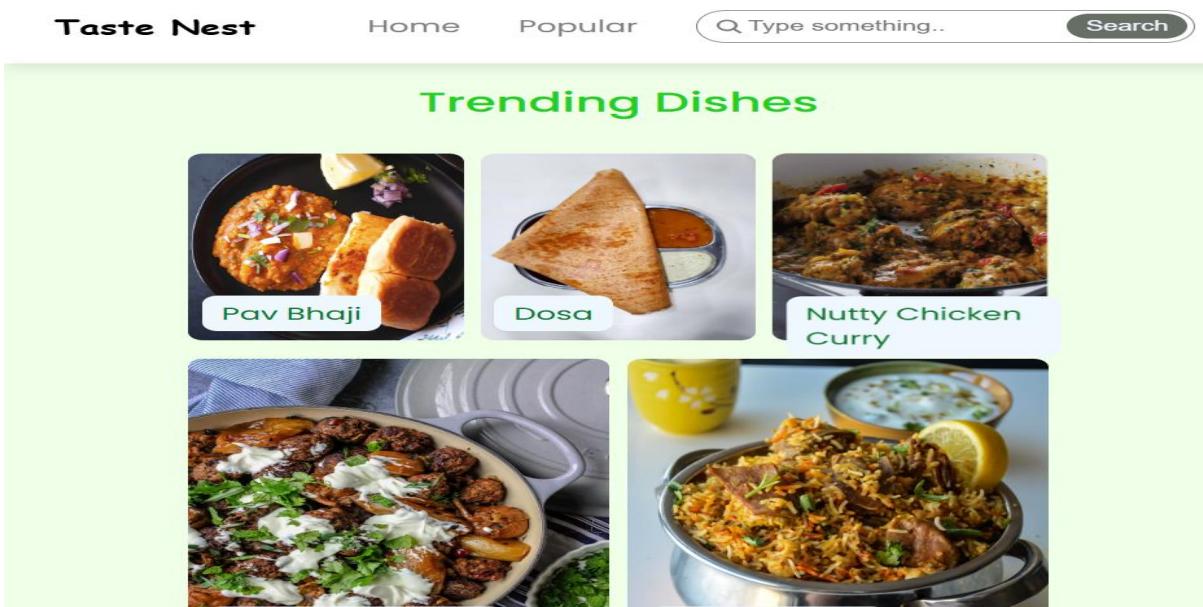


Figure 5: Trending Dishes Section – Showcasing Popular Recipes

The screenshot shows the 'Recipe Categories Page' for 'Dal fry'. At the top, there is a navigation bar with links for 'Home' and 'Popular'. A search bar is also present. The main content area features a large image of a dal fry dish. Below the image, the title 'Dal fry' is displayed in bold. Underneath the title are two category tags: 'Indian' and 'Vegetarian'. The 'Procedure' section contains a detailed description of how to prepare the dish, mentioning tosoor dal, water, salt, turmeric, ghee, tomatoes, cilantro, and garam masala. The 'Ingredients' section lists the following items with their measurements:

1 - Toor dal	1 cup
2 - Water	2-1/2 cups
3 - Salt	1 tsp
4 - Turmeric	1/4 tsp
5 - Ghee	3 tbs
6 - Chopped tomatoes	1 cup
7 - Cumin seeds	1/2 tsp
8 - Mustard	

Figure 6: Recipe Categories Page

**Taste Nest**[Home](#)[Popular](#) Type something..[Search](#)

Wash and soak toor dal in approx. 3 cups of water, for at least one hours. Dal will be double in volume after soaking. Drain the water. Cook dal with 2-1/2 cups water and add salt, turmeric, on medium high heat, until soft in texture (approximately 30 mins) it should be like thick soup. In a frying pan, heat the ghee. Add cumin seeds, and mustard seeds. After the seeds crack, add bay leaves, green chili, ginger and chili powder. Stir for a few seconds. Add tomatoes, salt and sugar stir and cook until tomatoes are tender and mushy. Add cilantro and garam masala cook for about one minute. Pour the seasoning over dal mix it well and cook for another minute. Serve with Naan.

**Video Tutorial**

4 - Turmeric	1/4 tsp
5 - Ghee	3 tbs
6 - Chopped tomatoes	1 cup
7 - Cumin seeds	1/2 tsp
8 - Mustard Seeds	1/2 tsp
9 - Bay Leaf	2
10 - Green Chilli	1tbs chopped
11 - Ginger	2 tsp shredded
12 - Cilantro	2 tbs
13 - Red Pepper	1/2 tsp
14 - Salt	1/2 tsp
15 - Sugar	1 tsp
16 - Garam Masala	1/4 tsp

**Figure 9: Video Tutorial****Taste Nest**[Home](#)[Popular](#) Type something..[Search](#)**From our kitchen to yours—exclusive recipes and foodie treats await.**

Get weekly meal inspiration, cooking tips, and expert advice delivered directly to you. Subscribe to our newsletter and level up your culinary skills

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Good food is shared, great feedback is treasured

**Taste Nest**[Home](#)[Chicken](#)[Breakfast](#)[Dessert](#)[Goat](#)[Lamb](#)[Pasta](#)[Seafood](#)[Starter](#)[Vegan](#)[Side](#)[Miscellaneous](#)

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**Figure 8: Subscription and Feedback Section**

## 8.Code Implementation

### 8.1:Folder Structure

The project follows a standard **React front-end structure** for clarity and maintainability:

```

cookbook-website/
  └── public/      # Contains index.html and static assets
    └── images/    # Images used in recipes and homepage

  └── src/        # Main source folder
    ├── components/ # Reusable React components (Navbar, Footer, RecipeCard, etc.)
    ├── pages/     # Separate pages (Home, Categories, RecipeDetails)
    ├── App.js      # Main React app component
    └── index.js    # Entry point rendering the app

  └── package.json # Project dependencies and scripts
  └── README.md   # Project overview and instructions

```

### 8.2:Important Code Snippets

#### 1. Displaying Recipe Card (React Component)

```
function RecipeCard({ recipe }) {
  return (
    <div className="recipe-card">
      <img src={recipe.image} alt={recipe.name} />
      <h3>{recipe.name}</h3>
      <p>{recipe.category}</p>
    </div>
  );
}
```

#### 2. Mapping Recipes in a Category

```
const categoryRecipes = recipes.filter(r => r.category === "Chicken");
return (
  <div className="category-container">
    {categoryRecipes.map(recipe => <RecipeCard key={recipe.id} recipe={recipe} />)}
  </div>
);
```

#### 3. Navigation Component

```
<nav>
  <ul>
    <li><a href="/">Home</a></li>
    <li><a href="/categories">Categories</a></li>
    <li><a href="/feedback">Feedback</a></li>
  </ul>
</nav>
```

These snippets highlight the **key functionalities** of the project: displaying recipes, categorization, and navigation.

The full code is maintained in the project folder and uploaded on GitHub.

## **9. Testing & Output**

### 9.1:Testing the Website

- **Navigation:** All links, menus, and categories were tested to ensure they direct correctly.
- **Recipe Pages:** Verified that ingredients and step-by-step procedures display correctly for every recipe.
- **Responsiveness:** Checked the website on different devices (laptop, desktop, mobile) to ensure layout adapts properly.
- **User Interaction:** Tested subscription and feedback forms to ensure entries can be submitted successfully.
- **Search / Filter :** Verified that users can find recipes quickly by name or category.

### 9.2:Output Description

- The website successfully loads the homepage with featured food images.
- Users can easily navigate between categories like **Chicken, Side, Dessert, Lamb, Beef**.
- Recipe details pages display all ingredients and cooking steps clearly.
- Subscription and feedback sections function as intended, allowing user interaction.

*Screenshots of these outputs have already been included in the “Screenshots / UI Design” section.*

## 10. Conclusion

### 10.1: Achievements

The *Cookbook Website* project successfully demonstrates the development of a **user-friendly and interactive front-end platform** for accessing and exploring recipes. The key achievements of this project include:

- Design and implementation of a **responsive homepage** highlighting featured dishes.
- Organization of recipes into **clearly defined categories**: Chicken, Side, Dessert, Lamb, and Beef.
- Development of **recipe detail pages** displaying ingredients, step-by-step procedures, and images.
- Integration of **interactive elements** such as navigation menus, search/filter options, subscription, and feedback sections.
- Application of **HTML, CSS, JavaScript, and React.js** to build a functional and visually appealing website.

### 10.2: Future Enhancements

Although the project successfully meets its objectives, several improvements can be implemented in the future:

- **User Authentication:** Adding user accounts and login functionality to save favorite recipes.
- **Backend Integration:** Implementing a database to store and retrieve recipes dynamically.
- **Expanded Categories:** Including additional categories such as Vegan, Seafood, and Beverages.
- **Multimedia Features:** Incorporating video tutorials or audio guides for recipes.
- **Ratings and Reviews:** Enabling users to rate recipes and provide feedback.
- **Advanced Search and Filters:** Allowing filtering by ingredients, cooking time, or difficulty level.

This project provides a strong foundation for a comprehensive digital cookbook platform and can be extended with additional features to enhance user experience and functionality.

## 11. References

1. **NM Team Tutorial** – Provided step-by-step guidance for developing the Cookbook Website project.