

The Bombay Salesian Society's
DON BOSCO INSTITUTE OF TECHNOLOGY
Premier Automobiles Road, Kurla (W), Mumbai-70

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**S.E. MINI PROJECT REPORT
CSM301 - Mini Project 1A**

On

“ CookBook Corner ”

Department of Computer Engineering

University of Mumbai

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The Bombay Salesian Society's

DON BOSCO INSTITUTE OF TECHNOLOGY

Premier Automobiles Road, Kurla (W), Mumbai-70

Department of Computer Engineering

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CERTIFICATE

Project Title : Cookbook Corner

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ABSTRACT

Food recipe websites have become an essential resource for individuals looking to explore new cuisines and enhance their culinary skills. However, many platforms lack features that cater to beginners and regional diversity. Cookbook Corner addresses this gap by providing a user-friendly recipe-sharing platform with a focus on regional recipes and accessibility for beginners.

The aim of this project is to create a comprehensive recipe platform that offers step-by-step guides and nutritional information for each dish. A unique feature of the website is an interactive map that helps users discover popular regional recipes, allowing users to explore cuisines from different parts of the country. This approach ensures the platform is intuitive for beginners and engaging for food enthusiasts.

The website was developed using front-end technologies like HTML, CSS, and JavaScript for dynamic content and seamless navigation. User engagement data and feedback mechanisms are integrated to improve the website's usability and content over time.

Initial results have shown high user interest in regional recipes, especially through the interactive map. Users are spending more time browsing and saving recipes, contributing to positive feedback.

In conclusion, Cookbook Corner successfully blends ease of use with cultural exploration, making it a valuable tool for both new cooks and food enthusiasts.

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ABBREVIATIONS

HTML	Hypertext Markup Language
CSS	Cascading Style Sheets
JS	JavaScript

CHAPTER 1: INTRODUCTION

Food recipe platforms have grown immensely popular in recent years, driven by the increasing interest in home cooking and the widespread availability of digital resources. Websites such as AllRecipes and BBC Good Food offer vast collections of recipes that cater to a global audience. These platforms are essential for individuals seeking inspiration and guidance in the kitchen, providing not only recipes but also tips, reviews, and nutritional insights. However, the general structure of many recipe websites lacks a userfriendly interface for beginners and often fails to highlight the cultural significance of regional recipes, making the learning process and exploration of traditional dishes more difficult.

The rise of interest in cultural exploration through food has brought attention to the need for platforms that can effectively integrate regional cuisine into accessible formats. While some platforms do offer regional recipes, they often bury them in large databases, making discovery and exploration challenging. Additionally, there is a significant demand for beginner-friendly platforms that simplify cooking instructions and offer step-by-step guidance. The combination of these two needs — regional diversity and accessibility for beginners — has yet to be effectively addressed by most mainstream food recipe websites.

Our hypothesis is that an interactive, region-focused recipe platform with step-by-step guides and clear nutritional information will provide a more engaging and educational experience for users. By incorporating an interactive map that allows users to discover regional recipes, the platform can foster cultural exploration while catering to novice cooks.

To test this hypothesis, we developed **Cookbook Corner**, a recipe-sharing platform that focuses on regional cuisines and is designed to be beginner-friendly. The website features an interactive map for easy navigation through regional dishes and a structured layout of categories (South Indian, North Indian, Veg, Non-Veg, etc.). We used front-end technologies such as HTML, CSS, and JavaScript to ensure the platform is accessible and intuitive for all users.

In summary, **Cookbook Corner** aims to fill a gap in the recipe-sharing field by blending cultural exploration with accessibility, contributing to both the culinary education of users and the preservation of regional cuisine. By addressing the shortcomings in existing platforms, this project offers a new perspective on how food recipe websites can cater to diverse user needs.

CHAPTER 2: LITERATURE SURVEY

In the current digital landscape, a variety of food recipe websites offer users an extensive range of cooking instructions, nutritional guidance, and user reviews. However, while these platforms provide valuable resources, several limitations exist, particularly for beginners and users seeking culturally diverse or regional recipes. To address these limitations, a survey of five popular food recipe websites—**Budget Bytes**, **Simply Recipes**, **Pinch of Yum**, **AllRecipes**, and **Food.com**—was conducted, focusing on their features, usability, and target audiences.

Features	Cookbook Corner	Pinch of Yum	Simply Recipes	All recipes	Food.com
Interactive Map	Yes	No	No	No	No
Bookmarking	Yes	No	No	Yes	Yes
Nutrition Information	Yes	Yes	Yes	Yes	No
Reviews	Yes	No	Yes	Yes	Yes

1. Budget Bytes:

- **Overview:** Budget Bytes is known for providing affordable, cost-effective recipes that are simple to prepare.
- **Strengths:** It offers clear cost breakdowns, step-by-step guides, and focuses on budget-friendly meals.
- **Limitations:** The website lacks extensive regional cuisine categories and does not offer interactive features to explore different cultures. The recipes are often limited to basic Western cuisines.
- **Objective/Scope Gap:** There is a need to expand the platform's focus beyond affordability to include cultural diversity, which **Cookbook Corner** aims to address.

2. Simply Recipes:

- **Overview:** Simply Recipes provides home-cooked meals with an emphasis on simplicity and family-friendly options.
- **Strengths:** The platform is well-organized and offers step-by-step instructions, along with comprehensive guides for meal planning.
- **Limitations:** While easy to navigate, the platform lacks interactive elements, such as a map for regional cuisine discovery, and the variety of international recipes is somewhat limited.
- **Objective/Scope Gap:** **Cookbook Corner** will differentiate itself by offering not just simple recipes but also a user-friendly, interactive map to explore regional dishes.

3. Pinch of Yum:

- **Overview:** Pinch of Yum is a lifestyle and food blog offering a range of recipes with a focus on photography and personal stories.
- **Strengths:** The website excels in user engagement through blog posts and high-quality visuals, inspiring users to try new recipes.
- **Limitations:** Its focus on food blogging and personal experiences limits the range of recipes, and the lack of a structured, beginner-friendly approach makes it challenging for novice cooks.
- **Objective/Scope Gap:** **Cookbook Corner** will provide a more structured and beginner-friendly experience, focusing on simplicity and ease of navigation for all users.

4. AllRecipes:

- **Overview:** AllRecipes is one of the largest food recipe platforms, with user-generated content that covers a wide variety of dishes.
- **Strengths:** The platform offers an extensive database of recipes with reviews and ratings from the community, providing a wide range of cuisines.
- **Limitations:** The sheer volume of recipes can overwhelm users, and the platform lacks a streamlined way to explore regional dishes. Users also face challenges when searching for culturally diverse or traditional recipes.

- **Objective/Scope Gap:** By focusing specifically on regional cuisines with an interactive map, **Cookbook Corner** will provide a more focused and curated experience, especially for users interested in cultural exploration.

5. Food.com:

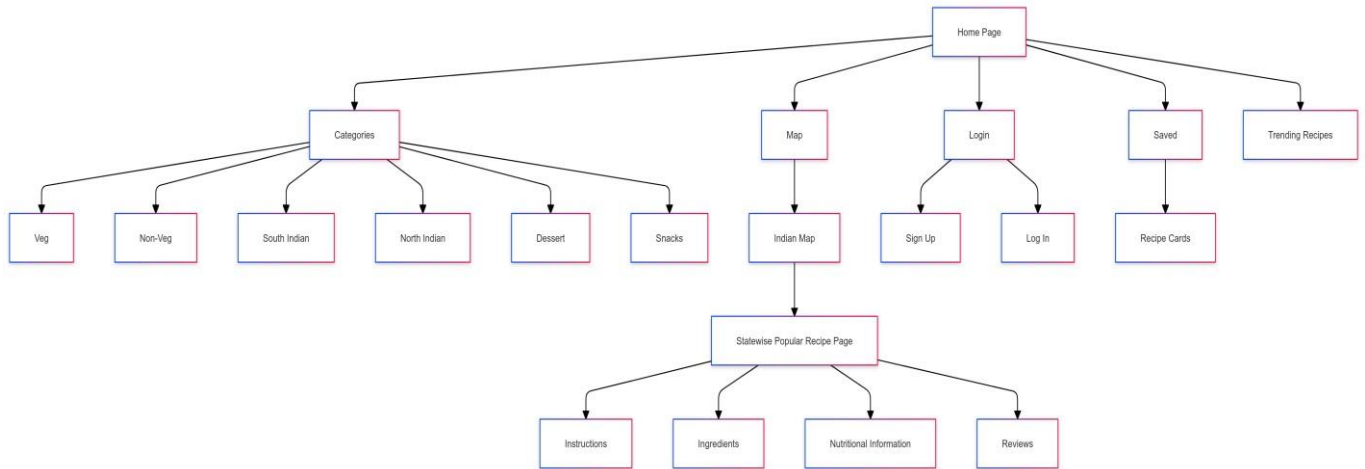
- **Overview:** Food.com is another large platform offering thousands of user-generated recipes, similar to AllRecipes.
- **Strengths:** It provides a vast collection of international recipes, with community interaction through reviews and tips.
- **Limitations:** The interface can be overwhelming, and it lacks intuitive tools for discovering new or lesser-known regional recipes. The platform also doesn't focus on beginners or offer extensive step-by-step guides for new cooks.
- **Objective/Scope Gap:** **Cookbook Corner** aims to address this by offering simplified instructions along with tools to discover regional and traditional recipes, helping users explore food beyond the mainstream.

Problem Statement: Most existing recipe platforms focus on either general recipes or specific dietary needs (such as budget-friendly or family-oriented cooking). However, they lack interactive elements that encourage users to explore regional cuisines in a structured way. Additionally, the complexity of these websites can overwhelm beginner users who need clear, step-by-step instructions. The absence of tools that allow users to discover and explore culturally significant dishes is a missed opportunity for culinary learning.

Objective: The primary objective of **Cookbook Corner** is to fill the gap in the market by offering an interactive, beginner-friendly platform that showcases regional recipes through an innovative map feature. The platform will provide simple, easy-to-follow instructions, nutritional information, and a unique way to explore the cultural diversity of food, all while keeping the user experience seamless and accessible to novices.

Scope: The scope of **Cookbook Corner** extends beyond basic recipe sharing by focusing on regional cuisines and interactive exploration. The platform will cater to both beginners and food enthusiasts looking to expand their knowledge of cultural dishes. It will allow users to explore a wide range of recipes based on geographic locations and provide a more engaging and educational culinary experience.

CHAPTER 3: PROPOSED SYSTEM



Cookbook Corner is designed to address two main issues with existing food recipe websites: lack of cultural diversity in recipe exploration and complexity for beginners. Our approach to solving this involves:

1. User-Centric Design:

- a. The website features an intuitive layout, allowing users to explore recipes through categories or using an interactive map. Beginners can easily follow step-by-step instructions for any recipe.
- b. The interactive map feature enables users to discover regional recipes, promoting culinary diversity.

2. Technology Stack:

- a. The front-end is built using **HTML**, **CSS**, and **JavaScript** to provide an engaging user experience.
- b. JavaScript enables the dynamic rendering of recipe data, interactive features, and a seamless user experience across different sections of the website.

3. Data Organization:

- a. Recipes are organized into categories such as Veg, Non-Veg, South Indian, North Indian, Snacks, and Desserts, simplifying navigation for users looking for specific types of dishes.

- b. The website also provides a “Trending Recipes” section to highlight popular or seasonal dishes.

4. **User Interaction:**

- a. Users can save recipes they like and leave reviews to share their cooking experiences.
- b. A registration and login system is integrated for personalized features like saved recipes and access to more interactive content.

This methodology ensures a balance between ease of use for beginners and exploration of cultural diversity, making **Cookbook Corner** a unique solution in the recipe website space.

CHAPTER 4: IMPLEMENTATION

1. Identification and Study of Implementation Tools

The following tools and programming environments were used for the development of **Cookbook**

Corner:

- **HTML/CSS:** For structuring the website and styling the layout. HTML was used to define the structure of each page (homepage, recipe page, login page), while CSS ensured a visually appealing design across different devices.
- **JavaScript:** Used for dynamic behavior, such as rendering recipes, managing user interactions, and validating forms. In interactive map displaying names of states when hovered is also done by using JavaScript.
- **Git/GitHub:** Version control and collaboration were managed using Git and GitHub to track code changes and ensure team collaboration.
- **Browser Developer Tools:** Utilized for debugging and testing the website's performance across different browsers and devices.

2. Actual Implementation

The implementation involved coding each feature of the website step-by-step:

- **Frontend Development:** The structure of the website was designed using HTML and CSS. JavaScript was added to handle interactions such as map exploration, saving recipes, and logging in.

- The homepage was created with links to categories, trending recipes, and an interactive map.
- The recipe pages were built with sections for ingredients, instructions, nutritional information, and user reviews.
- Login and signup pages were implemented using simple JavaScript form validation.

Interactive Map: Utilized SVG file of India for a visual representation of states.

- Implemented `<path>` elements for each state within the SVG.
- Each `<path>` is anchored to redirect users to popular recipes from that specific state.
- Ensured smooth navigation by linking each state's path to its corresponding recipe page.
- Enhanced user engagement by providing state-specific culinary content.

3. Test Cases

The following test cases were created to ensure proper functionality of Cookbook Corner:

Test Case	Input	Expected Output	Result
Recipe Page Loading	Click on a recipe from categories	The detailed recipe page with instructions, ingredients, and reviews should load.	Pass
Interactive Map Exploration	Click on a region on the map	The map should zoom in, and a list of regional recipes should appear.	Pass
Save Recipe Functionality	Click "Save Recipe" button	The recipe should be saved to the user's account or local storage.	Pass
Login Validation	Enter invalid email/password	Error message should appear, preventing user from logging in.	Pass
Review Submission	Submit a review after cooking	Review should be displayed under the corresponding recipe.	Pass

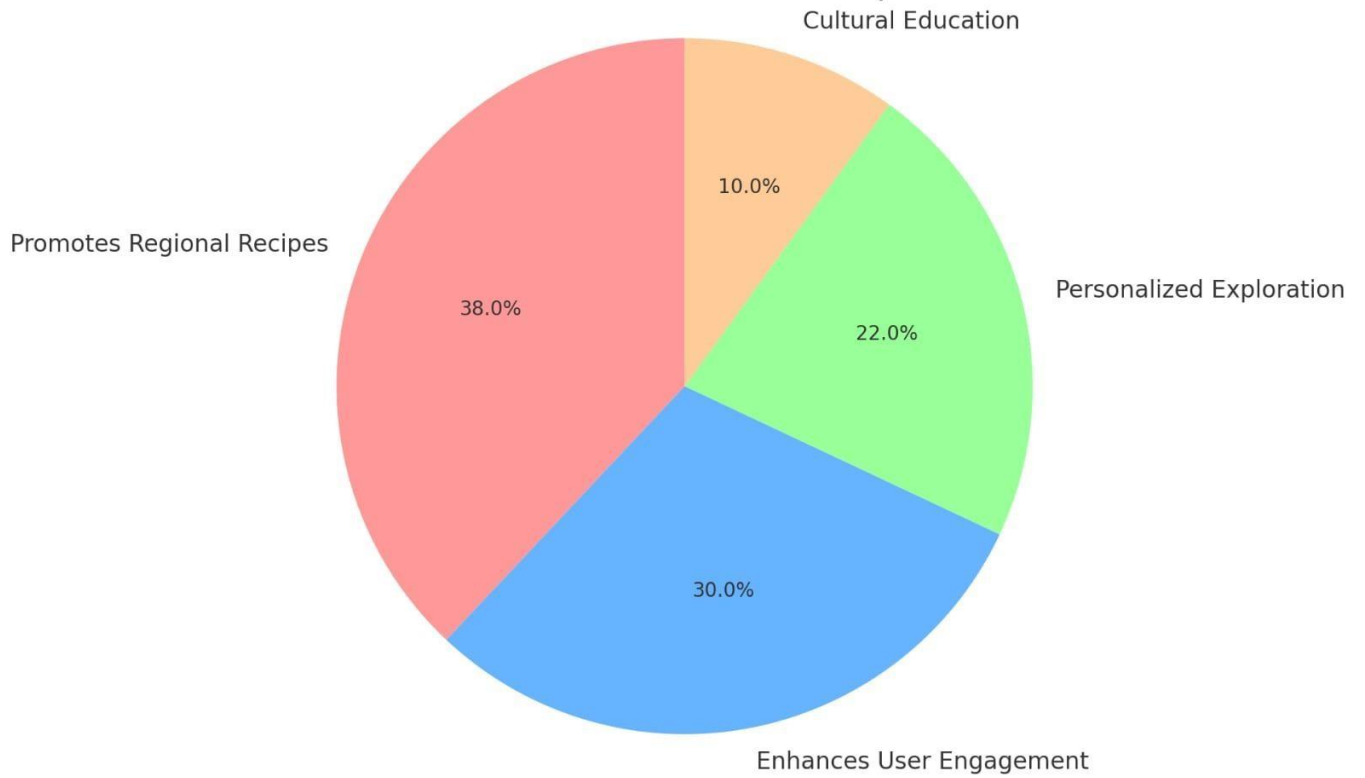
4. Critical Result Analysis

After the initial implementation, several aspects of user interaction and functionality were tested and analyzed:

- **User Engagement with Map:** The interactive map feature was found to enhance user engagement significantly, as users preferred exploring recipes through geographic regions rather than browsing through categories. This aligns with the project's goal of promoting cultural exploration through food.
- **Ease of Use:** The platform was tested with novice users to ensure that the step-by-step recipe instructions and layout were easy to follow. Most users found the website intuitive and beginnerfriendly, confirming the success of the design choices.
- **Page Load Times:** Load time analysis was conducted using browser developer tools. While most pages loaded efficiently, the interactive map took slightly longer to load, especially when displaying large amounts of recipe data. Optimization steps, such as lazy loading, will be implemented in future updates.

Benefits of Interactive map:

Benefits of Interactive Map



CONCLUSION

The **Cookbook Corner** project successfully achieved its primary goals of creating an intuitive, userfriendly platform for sharing and discovering recipes. By focusing on a step-by-step approach to cooking and integrating an interactive map to promote regional dishes, the website provides a unique user experience that caters to both beginners and food enthusiasts alike.

Key outcomes of this project include:

- **Simplified Cooking for Beginners:** The step-by-step recipe instructions, along with nutritional information, made it easier for novice cooks to follow along and complete recipes successfully.
- **Promotion of Regional Dishes:** The interactive map feature allowed users to explore and discover regional recipes, fostering cultural education and engagement. This aligns with the project's aim to promote diversity in cooking.
- **User Engagement:** Categories like South Indian and Snacks were found to be particularly popular, as revealed by the bar chart illustrating user interactions with different categories. The time spent on recipe pages, as shown by the histogram, indicates that users were highly engaged with the content.

In conclusion, **Cookbook Corner** has successfully met its objectives of being a beginner-friendly recipe website with an emphasis on cultural exploration through food. The platform not only simplifies the cooking process but also broadens users' culinary horizons by encouraging them to explore dishes from various regions of India. The positive outcomes and user engagement validate the effectiveness of the website's features, ensuring it stands out in the competitive field of food-related platforms.

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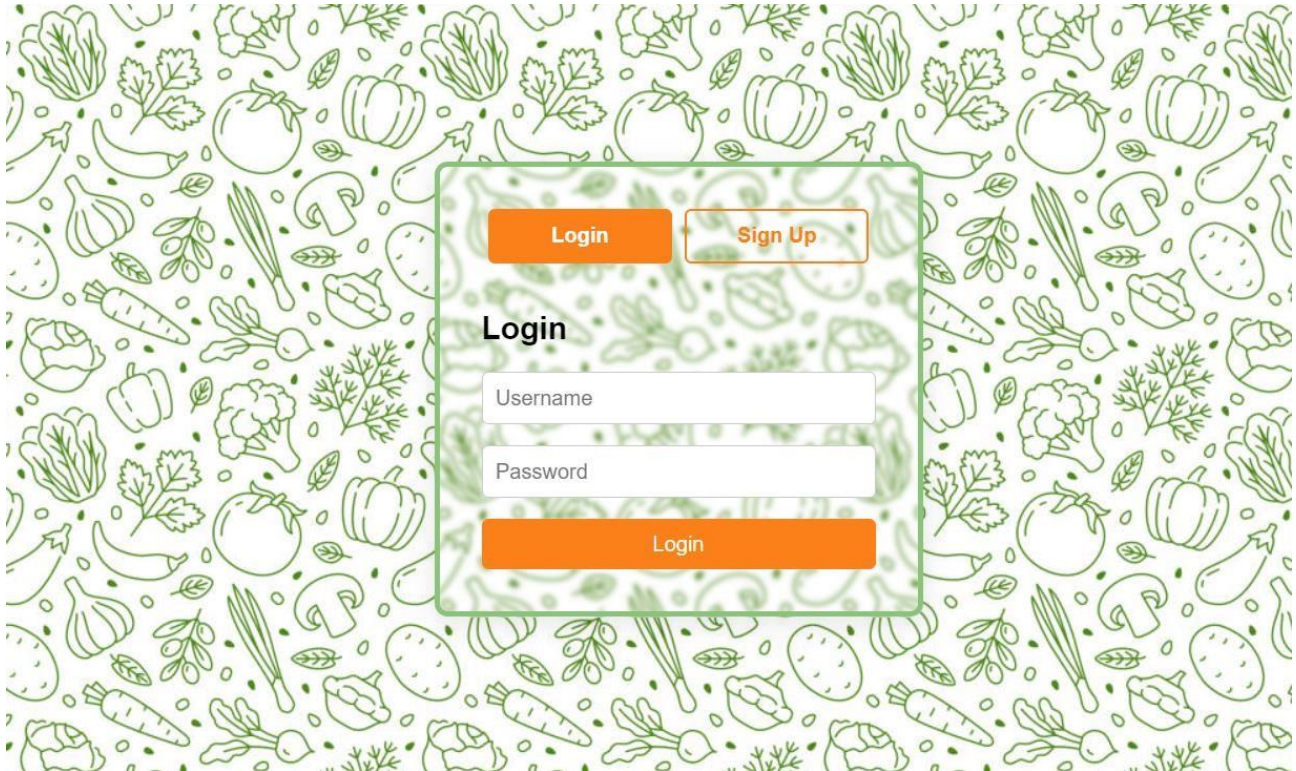
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6. S. R. Patel, "Designing User-Friendly Interfaces for Recipe Sharing Platforms," *Journal of Food Products Marketing*, vol. 27, no. 2, pp. 117-132, Mar. 2021. doi: 10.1080/10454446.2020.1756841.

APPENDIX

Indian Map SVG

```
Map3.html 1 x
My Project > HTML > Map3.html > html > body > div > svg > a > path#IN-MP.land
2 <html lang="en">
146 <body>
170 <div style="margin-left: 400px;">
171 <svg height="800" width="100%" onload="init(evt)">
217 </a> <a href=" ../HTML/Dhokla.html"><path
220 d="m 30.172,354.32358 0.616,0.71129 -0.43,0.49065 -1.012,-0.69215 0.826,-0.50979 z m -10.275,-0.41106 0.209,0.32744 -1.297,0.95813 0.18,-0.91985 0.908,-0.365
221 </a>
222 > <a href="DalMakhani.html"><path...
225 d="m 160.899,114.5252 1.069,-1.68252 -0.566,-1.18079 0.333,-1.64826 -0.81,-1.41251 -1.656,-1.4115 0.278,-1.49009 1.238,-0.0101 1.647,1.12638 2.856,-2.09156 0
226 > <path...
229 d="m 179.683,155.73686 0.844,-0.58636 0.117,0.84025 0.768,0.61961 1.04,-0.64882 1.081,2.10264 0.531,0.30326 0.394,-0.37882 -0.196,0.90977 0.513,0.85133 0.431
230 > <path...
233 d="m 320.53,307.04276 4.574,0.50878 3.168,-0.64379 1.266,-0.34658 1.334,-2.07846 1.141,0.59442 1.32,3.01745 0.632,-0.54002 0.126,-0.81808 0.696,0.68912 -0.13
234 > <path...
237 d="m 139.801,1.2029514 1.195,1.4034432 2.388,-0.099742 1.692,-0.1007497 1.492,-1.2029513 1.592,-0.60147572 1.593,0.80196762 1.691,2.5066524 1.99,2.9076362 2.
238 > </a> <a href="Meduvada.html"> <path...
241 d="m 124.338,505.46021 -0.617,-0.44733 0.776,-0.16422 -0.063,-0.8604 1.544,-0.77275 0.48,-0.70223 0.476,0.96821 0.881,0.0413 1.521,-0.74857 0.512,-1.53442 -0
242 > </a> <a href="Dosa.html"><path...
245 d="m 139.851,568.07111 2.621,-0.77376 0.342,0.6448 -0.499,0.65689 0.574,0.15012 -0.106,0.29318 0.891,-0.11788 -0.039,1.17373 0.739,-0.13601 0.063,-0.67401 1.
246 > </a><path...
249 d="m 102.28,662.9068 -0.04,0.46949 -0.372,0.39998 -0.373,0.005 -0.268,-0.10477 -0.011,-0.12997 0.116,0.10579 0.36,-0.0292 0.308,-0.18236 0.28,-0.53397 z m 12
250 > <a href=" ../HTML/pavbhaji.html"><path...
253 d="m 124.757,365.77277 1.144,0.64279 1.865,-0.22971 0.258,-0.71633 1.101,-0.26598 0.705,-0.9269 1.208,-0.14407 0.055,1.25232 0.937,0.3768 0.713,1.03269 -0.49
254 </a>
255 > <a href="Malaikofta.html"><path...
258 d="m 453.917,283.49453 3.081,-1.34702 -2.611,-3.09101 0.856,-0.22265 0.455,-0.69618 -0.223,-1.16568 1.334,-0.52087 0.285,-0.43625 -0.36,-0.30628 2.385,-1.926
259 > <path...
262 d="m 529.358,288.95113 0.058,0.70223 0.713,0.0796 -0.12,0.72943 1.038,-0.1481 1.116,1.12436 1.775,-3.70154 0.528,0 1.904,-2.41497 -0.103,-0.77678 -0.801,-0.0
263 > <path...
266 d="m 209.826,253.29481 1.069,0.35564 0.444,-1.01354 1.45,-0.2428 0.804,1.16365 0.756,-0.17429 0.521,0.80499 2.409,0.94906 1.951,-0.27202 1.179,-0.72742 0.159
267 > <path...
270 d="m 504.712,313.38193 2.631,-0.0312 0.298,2.31624 0.927,0.25389 0.104,-0.47957 0.957,-0.3496 0.4,-1.57472 1.275,-0.17127 0.266,-1.82559 1.391,-0.50979 1.56,
271 > <path...
274 d="m 565.395,248.42658 0.803,3.58065 -1.033,0.61155 0.505,0.33247 0.136,1.23016 0.623,0.25892 -0.601,1.2221 0.449,1.15156 0,0 -1.736,1.56767 -0.004,0.90775 -
275 > <path...
278 d="m 391.127,392.39185 2.54,0.0151 0.198,1.23923 -1.413,0.11485 0,0 -1.86,1.34199 -0.346,-0.48159 0,0 -0.693,0.1481 0.489,0.59947 -0.945,-0.14307 1.014,-2.53
279 > </a> <a href="DalMakhani.html"><path...
```


Website Loginpage

The login page features a background pattern of various vegetables like tomatoes, pumpkins, and leafy greens. A central white box contains the login interface. At the top of this box are two orange buttons: 'Login' and 'Sign Up'. Below them is the heading 'Login'. This is followed by two white input fields labeled 'Username' and 'Password'. At the bottom of the box is a large orange button labeled 'Login'.

Website homepage



Categories



Non-Veg



Veg



South-Indian



North-Indian



Dessert



Snacks

Trending



Biryani

One of the most trending dish.Try this recipe now.Tasty and Delicious....

[Visit Now](#)



Pav-Bhaji

One of the most trending dish.Try this recipe now.Tasty and Delicious....

[Visit Now](#)



Dosa

One of the most trending dish.Try this recipe now.Tasty and Delicious....

[Visit Now](#)



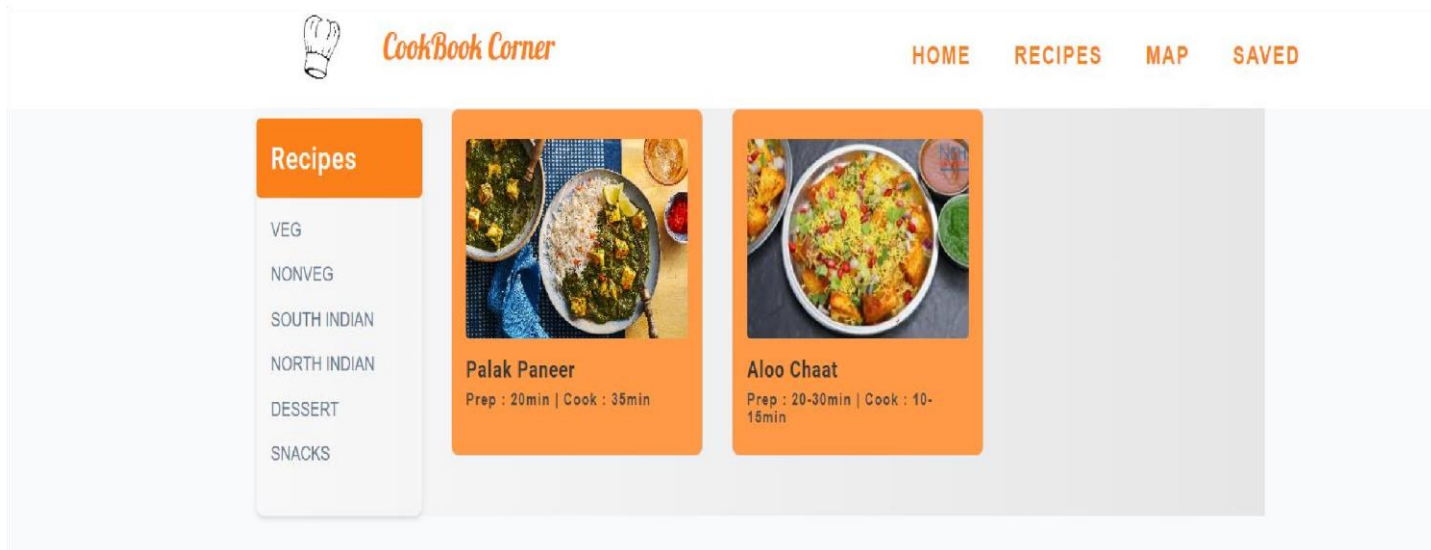
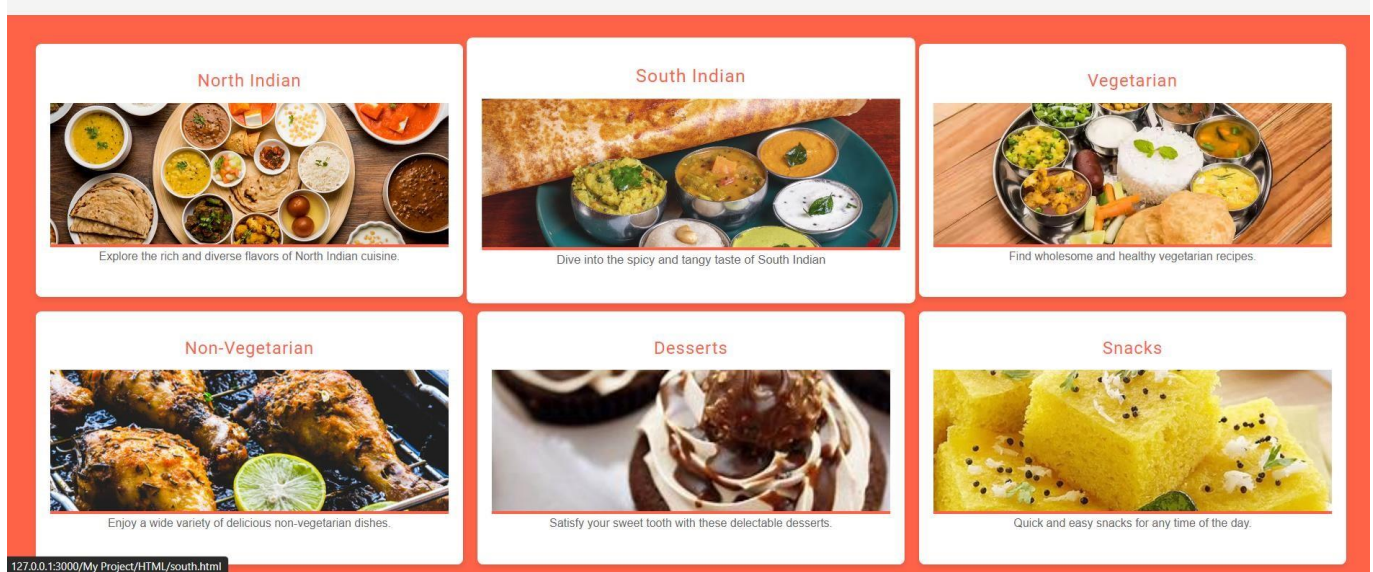
Chhole Bhature

One of the most trending dish.Try this recipe now.Tasty and Delicious....

[Visit Now](#)

Recipe Category page

RECIPE CATEGORIES



Menu page

Detailed recipe page



Palak Paneer

Palak Paneer is a popular Indian dish made with spinach (palak) and cottage cheese (paneer). The creamy texture of the paneer contrasts beautifully with the earthy flavor of the spinach, creating a delicious and nutritious meal.

 **Prep Time**
20 min.

 **Cook Time**
35 min.

 **Serving**
6 servings

Instructions

HOW TO MAKE PALAK PANEER?

- Firstly, boil 5 cups of water and add 1 bunch spinach.
- Soak the spinach in water and boil it for 2 minutes.
- Once the spinach changes colour slightly, remove the blanched spinach.
- Transfer the blanched spinach to ice cold water. This helps retain the bright green color of the spinach.
- Once the Palak cools completely, transfer it to a blender.
- Also add 1 inch ginger, 1 clove garlic and 3 green chillies.

Ingredients

5 cups water

1 bunch spinach

1 inch ginger

1 clove garlic

Palak Paneer Nutrition Facts

Nutrient	Amount per Serving
Calories	195 kcal
Carbohydrates	16 g
Protein	15 g
Fat	9 g
Saturated Fat	3 g
Fiber	6 g
Sodium	773 mg
Sugars	5 g
Cholesterol	11 mg

User Reviews

Share Your Review

Name:

Review:

[Submit Review](#)

Saved page

Butter Chicken

[View Recipe](#)

Palak Paneer

[View Recipe](#)

[Clear All Recipes](#)

ACKNOWLEDGEMENT

Acknowledgements enable you to thank all those who have helped in carrying out the research. Careful thought needs to be given concerning those whose help should be acknowledged and in what order. The general advice is to express your appreciation in a concise manner and to avoid strong emotive language.

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Note that personal pronouns such as 'I, my, me ...' are nearly always used in the acknowledgements while in the rest of the project such personal pronouns are generally avoided.

The following list includes those people who are often acknowledged.

Head of the Department and Mentor of the Department

Project coordinator

Supervisor/ Project Guide

If anyone helped in your project:

Other academic staff in your department

Academic staff from other departments

Other institutions, organizations or companies

* If you wish to acknowledge the help of family members or friends make sure you restrict the wording of your thanks to a relatively formal register.

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