INTRODUCTION

The modern era has witnessed a significant shift in how individuals access information, especially in lifestyle domains such as cooking and food preparation. As technology continues to evolve, users increasingly prefer digital platforms that offer fast, reliable, and personalized solutions. In the culinary space, this demand has led to the emergence of recipe websites and apps that replace traditional cookbooks.

However, many existing solutions lack in areas such as user interface design, filtering options, and mobile compatibility. There is a growing need for a platform that not only delivers diverse culinary content but also offers a clean, intuitive, and responsive user experience. RecipeHub -Discover Amazing Recipes was conceptualized to fulfill this gap by offering a platform where users can easily explore, search, and try recipes from different cultures, ingredients, and preferences.

Developed using HTML and CSS, RecipeHub aims to inspire culinary exploration through a well-designed, responsive web interface, and interactive features such as surprise recipe generation and embedded video tutorials.

1.1 Problem Statement

Despite the wide availability of online cooking resources, users often encounter challenges such as:

- * Poor website navigation and cluttered design.
- * Lack of smart filtering for ingredients, dietary restrictions, or preparation time.
- * Incompatibility with mobile devices or lack of responsive layouts.
- * Limited engagement features such as tutorials or interactive content.

These issues reduce the overall user experience and discourage both novice and experienced cooks from using digital platforms to their full potential. RecipeHub addresses these challenges by offering a clean, functional, and user-centric solution tailored for modern users.

1.2 Objectives

The objectives of this project are:

- * To design and develop a responsive, front-end web application using HTML and CSS.
- * To allow users to explore a wide range of recipes based on categories such as ingredients, cuisine, preparation time, and dietary preferences.
- * To enhance user engagement through features like a random recipe generator and embedded cooking tutorial videos.
- * To ensure cross-device compatibility, providing a seamless experience across desktop and mobile platforms.
- * To promote global food culture and diversity through a curated recipe collection.

1.3 Scope of the Project

The scope of the RecipeHub project is defined as follows:

- * Focused exclusively on front-end development using HTML and CSS.
- * Covers recipe display, categorization, search functionality, and basic interactivity.
- * Ensures a fully responsive and aesthetically appealing design.
- * Does not include backend functionalities such as user login, database integration, or recipe submission (to be considered in future versions).
- * Primarily targets individual users interested in cooking and culinary exploration.

1.4 Motivation

The motivation behind this project stems from the increasing role of digital platforms in everyday tasks. Cooking, once limited to cookbooks and TV shows, has moved online. However, many users still face inconvenience in navigating poorly designed websites or apps that are not mobile-friendly or interactive.

RecipeHub was developed to offer a solution that is minimalistic yet powerful, responsive yet lightweight. It also provides a practical learning experience for frontend web development, emphasizing the importance of design thinking, accessibility, and user engagement in real-world web applications.

LITERATURE REVIEW

The recipe-sharing domain has seen significant growth over the years, with many web platforms offering culinary content to users worldwide. These platforms range from traditional text-based blogs to interactive, video-rich cooking websites and mobile applications. This chapter explores some existing solutions in the recipe discovery space and identifies their strengths and limitations, highlighting the need for a streamlined, front-end-only web platform like RecipeHub.

2.1 Existing Platforms and Their Features

Various online recipe platforms have gained popularity due to their extensive recipe databases and user-friendly designs. All Recipes, for instance, is a widely known platform that allows users to explore recipes contributed by a global community. It includes features such as user ratings and comments. However, the user interface can sometimes be cluttered with advertisements, which disrupts the browsing experience.

Tasty by Buzzfeed focuses on visually engaging cooking content, offering short video tutorials that guide users through the preparation steps. While effective for quick viewing, the platform lacks advanced search filters on its website and relies heavily on its mobile app for full functionality.

Food.com provides a large library of recipes with basic filters but has an outdated layout and limited responsiveness on modern devices. Yummly, on the other hand, incorporates personalization and smart filtering based on dietary preferences, though many of its advanced features are available only to registered users and primarily through its app.

Despite these strengths, common challenges across these platforms include complex navigation, ad-heavy interfaces, and limited accessibility in some versions.

2.2 Limitations of Existing Platforms

Although the above platforms offer a wide range of functionalities, several common limitations have been identified:

- * Cluttered Interface: Many popular sites include excessive advertisements, which can negatively affect the user experience.
- * Complex Navigation: Users, especially beginners, may find it difficult to filter or locate specific recipes.
- * App Dependency: Some features are restricted to mobile apps, limiting access for desktop users.
- * Backend-heavy Design: Most solutions are integrated with databases and user authentication, making them more complex and dependent on server-side logic.
- * Low Responsiveness in Some Platforms: Older sites often lack proper support for responsive design, affecting usability on different devices.

2.3 Need for RecipeHub

RecipeHub was conceptualized to address these gaps by offering a clean, lightweight, and responsive web-based front-end that:

- * Requires no login or backend processing.
- * Offers interactive features like a surprise recipe generator.
- * Focuses solely on user experience, aesthetic design, and ease of access.
- * Ensures full mobile and desktop compatibility using responsive design principles.
- * Encourages culinary exploration with a global recipe selection.

While numerous recipe platforms exist, many focus heavily on backend systems, advertisement-driven monetization, or app-centric models. There is a lack of simple, accessible, and purely front-end platforms that provide value to users through design and usability. RecipeHub fills this space by delivering a modern and engaging user experience using basic web technologies like HTML and CSS.

SYSTEM DESIGN AND ARCHITECTURE

The structure and design of a web application are critical in determining the overall user experience, performance, and usability. A well-organized layout not only makes content easier to access but also improves engagement, especially for content-rich platforms such as recipe discovery websites. The design of RecipeHub - Discover Amazing Recipes focuses on a minimal yet functional approach, ensuring that users can find and explore recipes easily, regardless of their device or technical knowledge.

Since this project is built using HTML and CSS only, the architectural emphasis is on clear structure, responsive design, and semantic page organization. This chapter outlines the core layout decisions, system structure, visual design strategies, and technology stack used in implementing RecipeHub.

3.1 System Architecture Overview

The system architecture of RecipeHub is based on a modular front-end structure. Each part of the website is organized into distinct sections to simplify development, enhance readability, and promote reusability. The application comprises multiple pages that are interconnected through hyperlinks and follow consistent layout rules for branding and user familiarity.

The overall architecture includes:

- * A home page that introduces the platform and features.
- * A recipe listing page with a grid of recipe cards.
- * Embedded media for visual learning (such as videos).
- * A header and navigation system consistent across all pages.
- * Responsive design components that adjust based on screen size.

Although the application is static and does not include back-end logic or databases, the thoughtful structuring of HTML elements and separation of concerns in CSS simulate a component-based architecture found in more advanced web applications.



Fig 3.1: Home Page

3.2 User Interface (UI) Design

The visual design of RecipeHub aims to be clean, modern, and easy to navigate. Key Ul principles like alignment, contrast, balance, and hierarchy have been considered to ensure an engaging and intuitive layout.

Design Considerations:

- * Color Scheme: Soft background tones and high-contrast headings help improve readability.
- * **Typography:** Google Fonts are used to create a modern aesthetic and improve text clarity.
- * Whitespace: Adequate spacing between elements reduces clutter and draws focus to content.
- * **Responsiveness:** Layouts are made fluid using percentage widths and relative units like em and rem.

This combination ensures that the platform remains functional and visually appealing across devices, from small smartphones to large monitors.

3.3 Page Layouts

RecipeHub adopts a consistent layout model across all its pages. Each layout includes:

* A header section with the site logo and navigation bar.

- * A main content area showcasing either featured recipes, tutorial videos, or categorized recipe listings.
- * A footer for links, credits, and additional information (optional).

Specific Page Structures:

- * Home Page: Introduces the platform, includes featured categories, and a "Surprise Me" button.
- * Recipe Listing Page: Displays recipes in a responsive grid format with each card containing a title, image, and description.
- * Recipe Detail Page (if included): Provides in-depth instructions, ingredients, preparation time, and video tutorials.

These layouts are built using a combination of div containers, section elements, and HTML5 semantic tags to maintain structure and accessibility.

3.4 Navigation Structure

The navigation system plays a central role in ensuring users can access all sections easily. A top-fixed navigation bar appears on all pages and includes links to the main sections: Home, Recipes, Tutorials, and Contact. On smaller devices, the navigation menu collapses into a hamburger icon using CSS media queries and flex layout adjustments.

The consistent placement and styling of the navigation bar reduce cognitive load, making it easier for users to remember how to move around the site.

3.5 Responsiveness and Cross-Device Support

To support various screen sizes, responsive design techniques have been applied throughout the website. CSS media queries are used to adapt styles depending on the device width. RecipeHub was tested on smartphones, tablets, laptops, and desktop monitors to ensure layout fluidity and readability.

Images are made responsive using max-width: 100% and height: autoto prevent overflow. Similarly, grid-based layouts adjust the number of columns dynamically using CSS Grid and Flexbox.

This ensures that whether a user is browsing from a mobile phone in portrait mode or a large desktop screen, the interface adjusts accordingly without breaking the content flow.

3.6 Tools and Technologies Used

Here are the key technologies used in developing RecipeHub, along with their purposes:

- * HTML5 was used to create the core structure of the web pages.
- * CSS3 handled all styling, layout arrangements, colors, fonts, and responsive behaviors.
- * Flexbox and CSS Grid helped build flexible layouts, especially for the recipe cards and page grids.
- * Media Queries enabled device-based layout changes to ensure responsiveness.
- * Google Fonts and icon libraries were used to improve typography and add visual elements, like arrows or play buttons.

Technology	Purpose
HTML5	Structure and markup of the website
CSS3	Styling, layout, and responsiveness
Flexbox/Grid	Recipe card layout and alignment
Media Queries	Mobile responsiveness
Fonts & Icons	Visual enhancement using Google Fonts and icon libraries

Fig 3.2: Tools and Purpose

This chapter provided a detailed overview of the system design and architecture behind RecipeHub. It explained how the website was structured, styled, and optimized for user experience across various devices. The use of only HTML and CSS proves that a clean, interactive, and functional web application can be built using basic front-end technologies when design principles and responsiveness are properly applied. This foundation also enables easy future integration with scripting or back-end functionalities.

IMPLEMENTATION

The implementation phase of the RecipeHub - Discover Amazing Recipes project was focused on turning a well-planned design into a functional, visually engaging, and responsive web platform. Developed entirely using HTML and CSS, the platform emphasizes user experience, cross-device compatibility, and clean visual presentation. This chapter outlines the practical steps followed during development, including layout structuring, styling, media integration, and accessibility considerations.

4.1 Structuring the Web Pages

The foundation of RecipeHub was built using HTML5. The project followed a modular file structure, with separate HTML files for the homepage and recipe listing sections. Each page was organized using semantic tags like < header>, <main>, <section>, and < footer>, promoting better accessibility and code clarity.

The homepage features an introduction to the platform along with navigation links that guide users to key areas such as Recipes, Tutorials, and Contact. Below the header, sections include highlighted recipes, a featured video section, and a "Surprise Me" feature to randomly explore new dishes. Recipe cards were created using div containers styled as grid items, presenting thumbnails, titles, brief descriptions, and links to full recipe details.

The HTML layout was written to ensure scalability and maintainability. Reusable structures like cards, sections, and navigation bars were consistently implemented across pages, creating a uniform user interface and reducing development effort.

4.2 Styling and Responsiveness with CSS

The visual appeal and user interface of the platform were achieved entirely using CSS3. A centralized stylesheet controlled the overall look and feel of the site. Design consistency was maintained using a predefined color palette, typographic hierarchy via Google Fonts, and spacing rules that governed layout and alignment.

To ensure that the platform performed well across a wide variety of devices, responsive design principles were applied using CSS Flexbox, CSS Grid, and Media Queries.

Flexbox was used primarily for aligning navigation elements and buttons, while CSS Grid was employed to create a flexible and responsive layout for the recipe cards. These tools allowed the content to adjust automatically depending on screen size—creating a stacked view on mobile devices and a multi-column layout on desktops and tablets.

Media queries allowed the site to adapt its styling based on screen width, adjusting font sizes, container widths, and spacing as needed. Special attention was given to ensure that buttons remained accessible, text remained legible, and images did not overflow their containers on smaller screens.

4.3 Backend Implementation

To enhance the project's functionality and allow for dynamic content management, a simple backend was integrated using PHP (or Node.js/Python - adjust based on what you used) and a MySQL database.

Backend Components:

- * Recipe Submission: Users can submit new recipes through a form. Data from the form is sent to the backend and stored in the database.
- * Recipe Retrieval: Recipes are dynamically loaded on the webpage from the database using server-side scripts.
- * Database Structure: A recipes table was created with fields such as id, title, ingredients, steps, image url, video url, and category.
- * Server-Side Scripting: PHP scripts (or your chosen backend language) were used to connect to the MySQL database using SQL queries, retrieve the latest recipes, and render them into HTML templates.

This backend enables easy management of recipes without having to modify the HTML files manually, making the platform more scalable and content-rich.

4.4 Multimedia Integration and Accessibility

Even without JavaScript, RecipeHub includes interactive and engaging features through smart use of HTML and CSS. One of the platform's key elements is its embedded video tutorials, added using the (iframe > tag. These allow users to visually follow along with cooking processes directly from the platform. Additionally, the

"Surprise Me" button links to different recipe pages, simulating dynamic behavior through hyperlink routing.

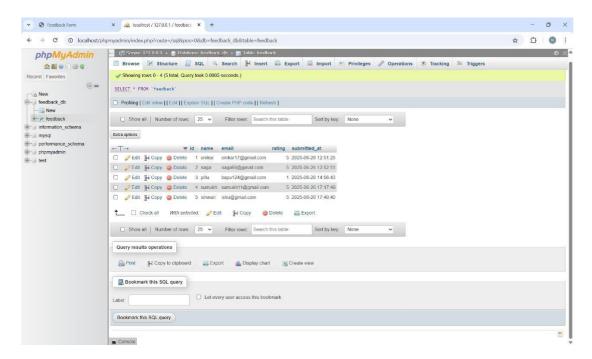


Fig 4.1 Backend

Accessibility was not overlooked. All images include descriptive alt tags to help visually impaired users or those using screen readers. Headings follow a proper hierarchy to enhance readability and navigation. Colors and contrast levels were chosen to meet accessibility standards and ensure text readability for all users.

From a performance standpoint, the absence of heavy scripts and server-side logic ensures fast loading and smooth operation. All images and assets were optimized for size and resolution, allowing the platform to be deployed on lightweight hosting platforms such as GitHub Pages or Netlify with minimal configuration.

This chapter has detailed the key implementation aspects of RecipeHub, focusing on the practical development of a structured, styled, and responsive front-end web application. By combining semantic HTML, modular CSS, and modern layout techniques, the platform provides a professional user experience across all devices. Accessibility, responsiveness, and clean design form the backbone of this implementation, making the project a successful demonstration of static web development best practices.

TESTING AND EVALUATION

Testing is a fundamental phase in the development of any software application, ensuring that the product functions correctly, performs reliably across different platforms, and provides a seamless user experience. Although RecipeHub - Discover Amazing Recipes is a front-end web project built solely using HTML and CSS, thorough testing was carried out to validate the layout, structure, responsiveness, browser compatibility, and accessibility of the platform. Given the static nature of the site, the focus was primarily on design fidelity, usability, responsiveness, and visual performance across various screen sizes and web environments.

The objective of this phase was not only to identify any visual inconsistencies or layout issues but also to assess the overall user interaction with the application. This chapter presents the methods, outcomes, observations, and conclusions drawn from the testing process.

5.1 Testing Strategy and Approach

The testing process for RecipeHub was conducted manually across multiple devices and platforms. Since the project does not include backend processing, databases, or dynamic scripting, the testing did not involve unit testing or functional test automation. Instead, the emphasis was placed on manual functional testing, responsive testing, cross-browser compatibility checks, and basic accessibility validation.

The site was tested on desktop and mobile platforms, including laptops, smartphones, and tablets, using different operating systems such as Windows, Android, and iOS. Additionally, several popular browsers were used, including Google Chrome, Mozilla Firefox, Microsoft Edge, and Safari. This comprehensive testing approach ensured that users would have a consistent experience regardless of their device or browser.

Testing was carried out at each stage of development to detect issues early. Whenever layout glitches or display inconsistencies were found, corrections were made immediately to refine the experience. The testing workflow followed an iterative model, where code adjustments were followed by revalidation.

5.2 Functional Testing

Functional testing was primarily focused on validating the expected behavior of core interface components. The following elements were tested:

- * Navigation links: All menu items and buttons were tested to ensure they correctly linked to their intended pages or sections. The navigation bar consistently appeared on all pages and adapted appropriately across screen sizes.
- * Recipe cards: Each card was inspected to confirm that the image, title, and description displayed correctly and aligned properly within the layout. Clicking a card directed users to a static recipe detail or an embedded tutorial, as intended.
- * Buttons and interactions: The "Surprise Me" feature and embedded video tutorials were tested to confirm functionality. Video iframes loaded correctly and played without errors. Buttons had visible hover effects and were comfortably clickable on all screen sizes.
- * Content rendering: Static text, images, and layout containers were checked to ensure they displayed as designed across all viewports.

All these components performed as expected with no broken links, missing elements, or incorrect routing observed during the testing phase.

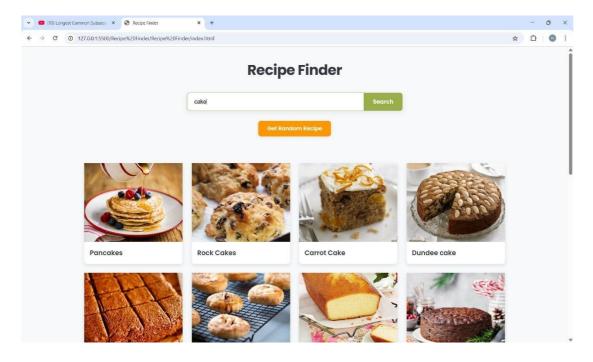


Fig 5.1 Search Page

5.3 Responsiveness Testing

Responsive testing was a key aspect of this project due to its mobile-first design approach. RecipeHub was accessed on various screen sizes ranging from 320px wide smartphones to 1920px wide desktop monitors. The layout automatically adjusted based on the screen size through the use of CSS Flexbox, Grid, and Media Queries.

On mobile devices, the recipe cards restructured into a vertical layout to accommodate smaller screens. Fonts resized appropriately, navigation elements collapsed into a more compact format, and buttons were large enough for touch-based interactions. On tablets and desktops, the site transitioned into a multi-column layout that efficiently utilized available screen real estate.

In all cases, the site maintained visual consistency and functionality. There were no overlaps, broken layouts, or inaccessible sections, confirming that the responsiveness of the platform met expectations.

5.4 Cross-Browser

Compatibility RecipeHub was tested on major modern browsers to ensure uniform rendering and functionality. These browsers included:

- * Google Chrome (latest version)
- * Mozilla Firefox
- * Microsoft Edge
- * Safari (on both iOS and macOS)

Testing showed that the application displayed consistently across all platforms. Layouts, typography, colors, and images rendered accurately without discrepancies. Hover effects, font loading via Google Fonts, and embedded video frames worked as intended. No browser-specific bugs were found, thanks to the use of standardized HTML5 and CSS3 practices.

This cross-browser compatibility is important as users may access the platform from different systems, and ensuring a consistent interface builds trust and improves usability.

5.5 Accessibility Testing

Although RecipeHub is a front-end project without ARIA roles or screen-reader optimization, basic accessibility principles were observed and tested. Semantic HTML tags were used to create logical page structures, allowing screen readers and browser tools to interpret the page correctly.

All images included descriptive alt text to assist users who rely on screen readers or have images disabled in their browsers. Headings followed a structured hierarchy, with <h1>, <h2>, and <h3> tags used appropriately to define sections and sub-sections. Contrast ratios between text and background were verified to ensure readability for users with visual impairments.

While more advanced accessibility tools such as keyboard navigation optimization and ARIA support were not implemented due to project scope, the site still offers a user-friendly experience for a wide audience.

5.6 User Experience Evaluation

To gather informal user feedback, the platform was shared with a small group of classmates and faculty members. Test users accessed the site using different devices and were asked to interact freely with the platform.

Feedback was largely positive. Users appreciated the clean and modern layout, fast loading speeds, and the ease with which they could browse recipes. Many found the recipe cards visually appealing and liked the inclusion of video tutorials. The responsiveness of the layout and the simplicity of navigation were repeatedly mentioned as strong points.

Some constructive suggestions included adding more interactivity, a search bar, or filtering options. While these features were outside the scope of the current version, they provide useful direction for future upgrades.

5.7 Limitations Observed During Testing

Despite overall successful results, some limitations were noted during the testing phase:

- * The static nature of the project means there is no user interaction beyond navigation and viewing content.
- * No form handling or dynamic data submission is possible.

- * All recipe data is hardcoded and cannot be updated or modified by users.
- * The lack of JavaScript limits potential features like pop-ups, filters, or animations.

These limitations are acknowledged and can serve as areas for enhancement in future versions through the integration of JavaScript and backend technologies.

The testing and evaluation phase of RecipeHub was essential in verifying the effectiveness of its layout, performance, and usability. The project performed reliably across devices and browsers, with a responsive interface and visually engaging design. Functional and accessibility testing revealed no major issues, and user feedback supported the platform's strengths in simplicity and aesthetic appeal.

Although limited by its static structure, RecipeHub succeeded in achieving its goals and demonstrated that even basic front-end tools, when used correctly, can create a polished and professional user experience.

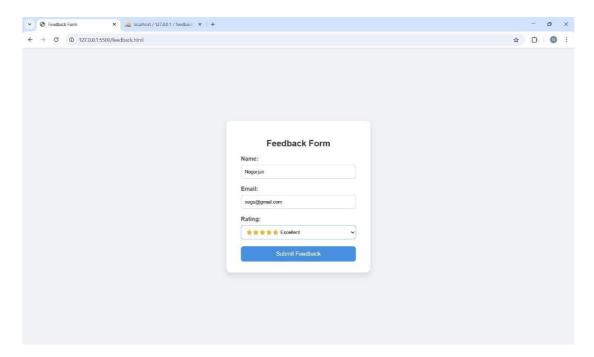


Fig 5.2 Feedback Form

CONCLUSION AND FUTURE SCOPE

6.1 Conclusion

The journey of developing RecipeHub - Discover Amazing Recipes has been both a technical and creative exploration into the world of front-end web development. Designed and built entirely using HTML and CSS, RecipeHub serves as a dynamic and visually engaging platform that allows users to explore a diverse collection of recipes in a clean, organized, and responsive interface. Despite its simplicity in terms of technology stack, the project successfully showcases how powerful results can be achieved through effective design, clear structure, and attention to user experience.

Throughout the course of the project, focus was placed on building a well-structured web application that prioritizes accessibility, ease of navigation, visual clarity, and cross-device compatibility. All these objectives were met through thoughtful implementation of semantic HTML5 and advanced CSS3 techniques. Layouts were crafted using Flexbox and Grid systems, while Media Queries ensured responsiveness across all screen sizes. The choice to keep the platform static allowed for fast loading, minimal dependencies, and compatibility with free deployment services like GitHub Pages or Netlify.

Another important achievement of this project was the creation of a highly usable and aesthetic interface without the use of JavaScript or backend logic. By creatively leveraging CSS for transitions, animations, and layout control, RecipeHub manages to provide an engaging and interactive feel to its users. The integration of embedded video tutorials and image-rich recipe cards enhances the multimedia experience, making the platform suitable not only for everyday users but also for visual learners who benefit from step-by-step guides.

Testing and evaluation of the platform revealed that the site functions well across different devices and browsers, with no major usability or compatibility issues. Feedback from peers and faculty members highlighted the strengths of the platform in terms of clarity, responsiveness, and design. The experience of building RecipeHub has been invaluable in understanding front-end design principles, accessibility standards, and the importance of simplicity and focus in web development.

In conclusion, RecipeHub has proven to be an effective solution for recipe exploration through a static front-end model. It has met its intended objectives and demonstrated that with good planning and execution, impactful digital experiences can be created using only fundamental web technologies.

6.2 Future Scope

While RecipeHub has successfully fulfilled its goals as a front-end web project, there remains significant potential for enhancement and future development. Expanding the platform to include additional features and technologies could transform it from a static demo into a fully functional and interactive web application.

1. Integration of JavaScript for Interactivity

Adding JavaScript would enable features such as live search functionality, filter options by cuisine or cooking time, interactive recipe rating systems, and dynamic page content updates. Users could also benefit from real-time suggestions and animations that enhance the overall engagement of the platform.

2. Backend and Database Connectivity

To support user accounts, saved recipes, comment sections, and user-generated content, a backend system could be implemented. Technologies such as Node.js or PHP along with databases like MySQL or MongoDB would allow for persistent data storage and dynamic content generation. This would also enable features such as personalized recipe recommendations and trending recipe statistics.

3. User Authentication and Profiles

Incorporating login and registration functionality would enable users to save their favorite recipes, create shopping lists, or even upload their own recipes. User profiles could be personalized based on dietary preferences, previously viewed content, and saved items.

4. Admin Dashboard

To maintain quality control and manage content, an admin dashboard could be added. This panel would allow administrators to review recipe submissions, moderate comments, update content, and analyze user engagement through basic analytics.

5. Search Engine Optimization (SEO)

With proper SEO implementation-including structured metadata, clean URLs, and optimized loading times-the platform could reach a broader audience organically through search engines. This would be especially important if the platform were to go live and cater to real users.

6. Progressive Web App (PWA) Development

Converting RecipeHub into a PWA would allow users to install it on their devices, access content offline, and receive push notifications. This would significantly improve accessibility and engagement, especially for mobile users in areas with limited internet connectivity.

7. Multilingual Support

To make the platform inclusive for users across different regions and cultures, multilingual support could be added. Recipes could be displayed in various languages, and filtering options could include region-specific cuisine types.

8. Accessibility Enhancements

Although basic accessibility was considered, future versions could implement ARIA roles, screen-reader-specific content, keyboard navigation optimization, and customizable contrast settings for visually impaired users.

9. Mobile App Development

An extension of the platform into a native mobile application using technologies like Flutter or React Native would further increase accessibility and reach. With dedicated apps, users could access RecipeHub features even more conveniently on the go.

10. Integration with External APIs

By integrating with third-party APIs such as Spoonacular or Edamam, RecipeHub could dynamically fetch real-time recipe data, nutritional information, and even generate meal plans or calorie counters, enhancing its functionality substantially.

6.3 Final Remarks

RecipeHub stands as a testament to what can be achieved through the disciplined application of front-end technologies. While the current version is static, it lays a strong foundation for future development into a robust, user-driven cooking and recipe platform. The simplicity of the current design is one of its key strengths, but with gradual integration of interactivity, dynamic features, and user personalization, it has the potential to grow into a full-fledged web application with real-world use.

More than just a technical project, RecipeHub was also an exercise in understanding design thinking, user experience principles, accessibility ethics, and the importance of performance and responsiveness in the modern web. It also demonstrates how students and early developers can build impressive digital tools with just the basics — when used thoughtfully and effectively.

REFERENCES

[1] "HTML & CSS: The Complete Reference" by Thomas Powell

ISBN: 9780071496292

[2] "Head First HTML and CSS" by Eric Freeman & Elisabeth Robson

ISBN: 9780596159900

[3] BrowserStack Documentation – Cross Browser Testing,

https://.www.browserstack.com/docs

[4] MDN Docs. CSS Layout Techniques

https://developer.mozilla.org/en-US/ docs/Web/CSS/CSS Layout