

EXISTING SYSTEM

The existing system of recipe-sharing-platforms generally offers basic features like recipe discovery , user submissions, and simple search functions. However, these platforms often fall short in terms of depth and personalization. Search capabilities are limited to broad categories or keywords, making it difficult for users to find recipes tailored to specific dietary needs or preferences. Personalization is minimal, lacking tailored recommendations based on user behaviour. Social engagement features are also underdeveloped, with few opportunities for users to build connections or participate in community activities. Additionally, comprehensive ingredient knowledge, substitution options, and detailed nutritional information are often missing or inconsistent. Overall, while functional, these platforms do not fully meet users' expectations for a rich, interactive, and personalized culinary experience.

DRAWBACKS OF EXISTING SYSTEM

- **Limited search and discovery:** Finding specific recipes or exploring new cuisines can be challenging due to poor search functionality or limited categorization.
- **Inconsistent recipe quality:** Variations in recipe format, clarity, and accuracy can lead to frustration for users.
- **Lack of personalization:** Most systems fail to tailor recommendations based on individual preferences, dietary restrictions, or cooking experience.
- **Insufficient nutritional information:** Many recipes lack detailed nutritional data, making it difficult for users to make informed dietary choices

PROPOSED SYSTEM

The proposed recipe-sharing platform goes beyond conventional cooking sites by focusing on a holistic, community-driven culinary experience. Every element has been thoughtfully designed to engage users in ways that blend functionality, inspiration, and social interaction, making it a one-stop destination for food lovers, from home cooks to culinary enthusiasts. This platform empowers users not only to discover and save recipes but also to develop a sense of ownership and pride in their cooking journeys. With features such as user profiles, followers, and recipe collections, users can showcase their culinary accomplishments, build personalized recipe libraries, and follow their favourite creators for ongoing inspiration.

A highlight of the platform is its smart ingredient and dietary management capabilities, catering to modern dietary needs and preferences with unmatched ease. Ingredient substitution suggestions help users adapt recipes to their taste or dietary restrictions, whether by swapping dairy with plant-based alternatives or finding gluten-free ingredient options. With meal planning tools, users can organize their weekly menus, ensuring balanced meals and minimizing food waste.

The platform's detailed nutritional analysis, readily available for each recipe, empowers users to make health-conscious decisions in line with their dietary goals, tracking everything from calories and macronutrients to vitamin intake. Beyond its core features, the platform

encourages community engagement and social sharing in creative and dynamic ways. An advanced review system adds an extra layer of trust, allowing users to share detailed feedback on recipes, helping others discover top-rated dishes or avoid common pitfalls in complex recipes. Search and discovery tools on the platform are enhanced by a powerful tagging system, which enables users to filter recipes not only by type or cuisine but also by unique attributes like cooking methods, preparation times, or seasonal ingredients.

With its seamless blend of social features, practical tools, and a vibrant community focus, this platform doesn't just cater to everyday cooking needs—it aims to inspire culinary exploration, encourage knowledge sharing, and celebrate the universal love of food. The platform aspires to become a culinary hub, where users can learn, teach, and connect with others, creating a dynamic ecosystem that transforms cooking from a solitary task into a shared, interactive, and enriching experience.

FEASIBILITY STUDY

A feasibility study is a comprehensive evaluation of a proposed project to determine its practicality and potential for success. This process begins with analysing the technical aspects of the project to ensure that the necessary technology, skills, and infrastructure are available or can be acquired. It involves evaluating whether the proposed system can be integrated with existing technologies and if the team possesses the requisite technical expertise. The study also considers operational aspects such as system usability and integration with existing workflows, as well as market demand and competitive landscape. By identifying potential risks and challenges early, the feasibility study helps stakeholders make informed decisions, optimize resource allocation, and reduce the likelihood of costly errors and project failures. This comprehensive analysis provides a solid foundation for successful project planning and execution.

Economical Feasibility

Conducting an economic feasibility analysis is essential for assessing the financial viability and investment requirements of the recipe-sharing platform. This analysis involves a detailed examination of the costs associated with developing the platform, including technology infrastructure, content management, and operational expenses. It also evaluates potential revenue streams, such as subscription fees. The platform's alignment with growing consumer interest in culinary exploration and personalized food experiences further enhances its economic feasibility. Core features like user profiles, recipe management, and community interactions can be built with web development frameworks, databases, and APIs. Advanced functionalities such as ingredient substitution, meal planning, and dietary filtering are achievable with search engines and nutritional databases. Social sharing, security, and scalability can be managed using social media APIs, cloud infrastructure, and secure authentication protocols. Overall, the platform can be effectively built, scaled, and maintained with current technology and best practices.

Technical Feasibility

The technical feasibility study for the Recipe Sharing Platform demonstrates a strong potential for successful implementation due to several key factors. The development team

possesses the expertise and resources needed to leverage modern web technologies and best practices. Advanced features like robust search functionalities, ingredient substitution suggestions, and personalized recommendations are within reach, thanks to the platform's use of Django and its extensive libraries. Scalability is a critical aspect of the platform's feasibility. Efficient coding practices and a solid infrastructure ensure that the system can handle increasing user traffic and an expanding recipe database. Technical assessments confirm that the platform adheres to industry standards, which guarantees it will meet performance requirements and remain adaptable as the platform grows. Overall, the study verifies that the project is not only technically viable but also wellpositioned to deliver a comprehensive and user-friendly experience.

Behavioral Feasibility

Behavioral feasibility is a crucial aspect of evaluating the recipe-sharing platform, focusing on user and stakeholder acceptance and engagement.

User Acceptance: For the platform to succeed, it must enhance the culinary experience by providing valuable features such as meal planning tools, and nutritional information. The success of the project hinges on users' willingness to adopt and actively engage with the platform for discovering, sharing, and managing recipes.

Recipe Contributor Engagement: The platform relies on recipe contributors to upload and manage their recipes. Their readiness to embrace the digital environment, share detailed recipes, and interact with the community is essential. Behavioral feasibility assesses their enthusiasm and readiness to engage with the platform's features.

Administrative Adaptation: Administrators are crucial for the effective operation of the platform, handling tasks such as user management, content moderation, and system maintenance. Their acceptance of the platform's functionalities and their ability to manage these responsibilities efficiently are vital for smooth operation.

Feasibility Study Questionnaire

1. Project Overview ?

The primary objective of the project is to develop a comprehensive recipe-sharing platform that enables users to create, share, and discover a wide range of culinary delights. The platform aims to enhance user experience through advanced features like ingredient substitution suggestions, meal planning tools, and detailed nutritional information. It seeks to foster a vibrant community by encouraging recipe sharing, storytelling, and user-generated content. By incorporating social interaction features, engaging contests, and a premium content system, the platform aims to build a connected and dynamic online community centered around food, inspiration, and shared culinary experiences.

2. To What Extent the System Is Proposed For?

The "Recipe Sharing Platform" is proposed to offer a comprehensive and user-centric recipe sharing experience. It includes core functionalities such as user authentication, recipe

management, and advanced search features. The platform will provide additional tools like ingredient substitution suggestions, meal planning, and nutritional information. It aims to foster community engagement through recipe sharing, storytelling, and user-generated content. Social interaction features, recipe contests will further enhance user involvement. The system is designed with a focus on robust security and scalability to support a growing user base and ensure a reliable platform.

3. Specify the Viewers/Public which is to be involved in the System?

General Visitors, Regular Users, Recipe Managers

4. List the Modules included in your System?

Admin, Guest Users, Recipe Managers

5. Identify the users in your project?

Guest Users, Recipe Managers

6. Who owns the system?

Administrator

7. System is related to which firm/industry/organization?

Food and Culinary

8. Details of person that you have contacted for data collection?

Nakul B Narayanan (Kitchen alchemist)

9. Questionnaire to collect details about the project?

1. What are the primary types of recipes featured on your website (e.g., traditional, contemporary, regional)?

Our website features a wide range of recipes, including traditional, contemporary, and regional dishes. We cater to diverse tastes, offering everything from classic comfort foods to modern, health-conscious meals.

2. Are there any unique features on your website that set it apart from other recipe platforms?

One of our standout features is the "Ingredient Swap" tool, which suggests alternatives for ingredients users may not have on hand or want to avoid. We also offer interactive cooking classes and live Q&A sessions with professional chefs.

3. What tools or features do you provide for users to interact with the content (e.g., commenting, rating, sharing)?

User can interact with our content by commenting on recipes, rating them, and sharing their own tips or modifications. They can also share recipes with friends and family via email or social media.

4. Can users create and save personal recipe collections?

Yes, users can create and save personal recipe collections. They can categorize these collections based on themes like "Holiday Favourite's," "Quick Weeknight Dinners," or "Vegan Options."

5. Do you have a feature for users to share recipes on social media?

We have built-in features that allow users to easily share their favourite recipes on social media platforms like Facebook, Instagram.

6. How do you handle negative feedback or reviews on recipes?

We value all feedback, including negative reviews, as it helps us improve our content. Our moderation team reviews negative comments to ensure they are constructive, and we often respond with tips or suggestions for better results.

7. What's the most recent feature you've added to your platform, and what was the motivation behind it?

The most recent feature we've added is a "Meal Planner" tool that allows users to plan their meals for the week, complete with a shopping list. This was introduced in response to user feedback requesting more tools for meal preparation and organization.

8. Have you partnered with any influencers or chefs to create exclusive content?

We have partnered with several renowned chefs and food influencers to create exclusive content. These collaborations include video tutorials, special recipe collections, and live cooking demonstrations.

9. How do you ensure that your website is accessible and easy to use for all users?

We prioritize accessibility by ensuring our website is navigable with screen readers, providing text alternatives for images, and using a clear, easy-to-read font. We also offer step-by-step guides with video and audio instructions for those who prefer multimedia content.

10. Do you offer personalized recipe recommendations? If so, how do they work?

Yes, we offer personalized recipe recommendations based on users' preferences, past activity, and dietary restrictions. The more a user interacts with our platform, the more tailored the recommendations become.