Software Requirements Specification (SRS) for All About Recipes

1. Introduction

1.1 Objective of All about recipes SRS:

This website aims to provide users with an intuitive and enjoyable experience for discovering, sharing, and cooking a wide variety of recipes. By utilizing HTML, CSS, and JavaScript, our primary focus is on simplicity, accessibility, and user engagement. The website offers features like liking, sharing and printing recipes for active user participation and provide help, FAQ, about, join us and contact section for assisting users and let them connect with the developers and owners of the website. Also, ensuring that the website compiles with all relevant data protection and privacy regulations.

1.2 purpose

The purpose of this Software Requirements Specification (SRS) document for the recipe-based website is to provide a comprehensive and well-defined blueprint for the development, implementation, and testing of the website. It defines the project's scope and outlines its essential features, providing a shared understanding of project goals. It also serve as a detailed guide for the development team, specifying the technical requirements, functionalities, and behaviors that need to be implemented to meet the project objectives effectively. The SRS aids in quality assurance and testing by describing expected behaviors. Additionally, it serves as a critical reference for all stakeholders involved in the project, including developers, designers, testers, project managers, and clients. Ultimately, it forms the foundation for a successful website development project, aligning client and user expectations and promoting effective project management and aims to ensure clarity, alignment, and the effective realization of this culinary-inspired web platform.

2. Functional Requirements

2.1 Recipe Search and Browsing

- Users can search for recipes by typing related keyword in the search bar.
- Users can browse recipes by category including Breakfast, Full Meal, desserts and drinks.
- The search results are displayed in a user-friendly manner, showing recipe names, images, and brief descriptions.

2.2 Search by Category:

- Users can browse recipes by categories such as cuisine, dietary preferences, and meal type.
- Categories are organized logically for easy navigation and selection.

2.3 User Interaction

- Users can print recipes in a well-formatted and printer-friendly layout.
- Users can like the recipes.

2.4 Header and Footer

- The header contains navigation menus for easy access to essential sections, including Home, Help, About , and Join us.
- The footer includes links to important pages, legal notices, social media links, User help and support related links and links to connect with the community.
- The footer also include a back to top option.

2.5 Search by Category Section:

- Users can browse recipes by predefined categories, such as cuisine, dietary preferences, and meal types (e.g., breakfast, dinner).
- Categories are organized logically for easy navigation and selection.
- Each category page displays a list of relevant recipes, helping users quickly find recipes that match their preferences.

2.6 Category-Specific Pages:

- When users click on a specific category within the "Search by Category" section, the website should navigate them to a dedicated page displaying recipes exclusively associated with that category.

- Each category-specific page should include a clear heading or title indicating the chosen category, along with a list of relevant recipes, providing a focused and user-friendly browsing experience.

2.7 Tagging System

- Recipes can be labeled with keywords such as Vegetarian, Gluten-free, Quick, Healthy, etc.

2.8 Recipe Detail Pages:

- Each recipe has a dedicated detail page displaying detailed information, including ingredients, preparation steps, cooking time, serving size, and user reviews.

2.9 Help and FAQ:

- A "Help" section provides users with comprehensive information on using the website, including navigation, account management, and troubleshooting.

- An FAQ section addresses common questions and provides quick answers for user support.

2.10 Connectivity

- Links to social media sites for sharing and connecting with the community will be provided.

- Users can connect with others in the online community, share their cooking experiences, and engage in discussions related to recipes.

2.11 Contact Information

- Contact information, including email, help support number and the address will be available for users to reach out for inquiries or support.

2.12 Theme

- The website will have a colorful and minimalist design theme to enhance user experience.

2.13 Print Recipe Cards:

- Users can generate printable recipe cards with a clean layout suitable for use in the kitchen.

3. Non-Functional Requirements

3.1 Performance

The website should load quickly and be responsive.

It should handle a large number of users and recipes efficiently.

3.2 Usability and User Experience:

The website should have an intuitive and user-friendly interface, with clear navigation and a consistent user interface.

It should be tested with real users for feedback and improvements in usability.

3.3 Scalability

site should be designed to accommodate future growth in terms of content, users, and traffic without requiring major architectural changes.

3.4. Security

Implement measures to prevent common web vulnerabilities(e.g., SQL Injection, XSS).

3.5 Content Management:

An easy-to-use content management system (CMS) should be in place for administrators to update, add, or remove recipes and other content.

3.6 Availability and Reliability:

The website should have a high availability rate, with planned maintenance communicated in advance to minimize downtime.

Regular backups of website data should be performed to ensure data recovery in case of system failures.

3.7 Browser Compatibility:

The website must be compatible with the latest versions of popular web browsers, including Chrome, Firefox, Safari, and Edge.

4. Architecture Overview

4.1 User Interface(UI)

- The website includes the homepage, recipe detail pages, user profiles, and search results.

- A user-friendly and responsive navigation system, including the header and footer, to provide access to different sections of the website.

- A search bar that allows users to search for recipes by keywords.

- The colorful and minimalist design theme enhances the user experience.

- Options for users to download and save recipes for offline access.

4.2 Application logic

- Provides search functionality and organizes recipes into categories.

- Manages user interaction, such as likes, shares, and comments.

● Provides information for users seeking assistance.

4.3 Database

● Details of recipes, including titles, descriptions, ingredients, preparation steps, and images.

● Information about recipe categories.

● Static content for the website, including header, footer, and help section.

5. Constraints

- **Resource Constraints**: For example, there may be a 50 days of fixed timeline for project completion, a specific budget of 1000 allocated for development, 5 skilled or learning team members for implementation.

- **Technological Constraints**: System hardware compatibility available and required is as follows: processor - Intel(R) Core(TM) i7-7500U CPU @ 2.70GHz 2.90 GHz, installed RAM - 8.00 GB (7.82 GB usable), system type - 64-bit operating system, x64-based processor. System software compatibility required and available is as follows: Microsoft windows 10, code editor – Visual Studio code, hosting browser – Microsoft Edge.

- **Operational Constraints**: Weekends to be considered as fully working days while the weekdays as partially working. Approval and allocation of the weeks work to be done on every Sunday.

- **Performance Constraint**: The software must handle concurrent requests from a minimum of 500 users and maintain a response time of under 2 seconds under normal operating conditions.