

# Recipe Sharing

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**Abstract:** *Today's world is very much dependent on the web applications. "Recipe Sharing" website is a project that presents a web application for users to contribute their own recipes. The website features a user authentication system to allow registered users to access and manage their own recipes, as well as new functionality help users find specific recipes. In addition, the website provides the ability for users to add, edit, and delete their own recipes, making it a dynamic and interactive platform for food enthusiasts and home cooks. The project aims to create a useful resource for users to find and share new and interesting recipes, while also showcasing the skills and abilities of the student team in developing web applications. The website may utilize various technologies and frameworks, such as React, HTML, CSS, JavaScript, and server-side languages, to create a seamless and engaging user experience*

**Keywords:** Recipe Sharing, React, HTML, CSS, JavaScript

## I. INTRODUCTION

"Recipe Sharing" is a project that presents a web application for users to browse, and contribute their own recipes. This project is a web-based application that provides an online platform where any users who like to cook can explore others recipes and post or share their own recipes. The project has simple features and functionalities which allow the user to use this application easily. It has a pleasant user interface. The website features a user authentication system to allow registered users to access and manage their own recipes. In addition, the website provides the ability for users to add, edit, and delete their own recipes, making it a dynamic and interactive platform for food enthusiasts and home cooks. The project aims to create a useful resource for users to find and share new and interesting recipes, while also showcasing the skills and abilities of the student team in developing web applications. The website provides a user-friendly interface that makes it easy to find and share recipes, and the ability for users to contribute their own recipes helps to build a community of recipe enthusiasts.

There are mainly four modules:

- Admin
- Chef
- Critic
- User

In this paper, we have 4 logins such as for admin, user, chef, critic. Admin can approve/reject chef, can approve/reject critics, view user details, delete user etc. The chef is another module they can add new verified recipes which born own their creativity. The user is the other module of the project. The user can add, edit and view recipes, save their favorite recipes. The critic is another module of the project. The critic can login into the website. It provides a login page for the critics in the website and after verifying the qualification details of the critic by the admin and provide permission to login then they can rank the chefs by analyzing the recipes and comments. It uses react as front end, Node.js & Express.js as backend and MongoDB as database.

## II. METHODOLOGY

Project Planning and Requirements Gathering: Define the objectives, features, and target audience of the website. Gather all the functional and non-functional requirements. Database Design: Design the database schema using MongoDB to store recipe data, such as recipe name, ingredients, instructions, images, etc. Backend Development with Node.js and Express.js: Implement the server-side logic to handle user requests, authentication, and interactions with

the MongoDB database. API Development: Create RESTful APIs to handle CRUD operations (Create, Read, Update, Delete) for recipes and user-related actions[1]. User Authentication and Authorization: Implement user authentication and authorization using tools like JSON Web Tokens (JWT) to secure the API endpoints and manage user sessions. Frontend Development with React.js: Build the user interface for the website, allowing users to browse, search, and submit recipes. User Interface Design: Design an intuitive and visually appealing user interface with responsive layouts, making it accessible across different devices. User Interaction and Social Features: Allow users to comment recipes. Implement features to create user profiles and save favorite recipes. Testing: Perform unit testing, integration testing, and user testing to ensure the website functions correctly and meets the requirements. Security Considerations: Ensure data security by validating user inputs, sanitizing data, and protecting against common web vulnerabilities. Community and Feedback: Encourage user engagement, feedback, and community building to enhance the website's growth and content quality.

### III. EXISTING AND PROPOSED SYSTEMS

The existing system for the food recipe website built using React stack primarily consists of a user interface (UI) that allows users to browse and search for recipes. The UI is built using React components, which handle the rendering of the website's pages and functionality. The back-end server is built using Node.js and Express.js. The website also lacks user accounts, which means that users cannot save their favourite recipes or create shopping lists[2].

The proposed improved version of the website aims to address these shortcomings. The new version will have a more advanced feature. The website will also have a user account system that allows users to save their favourite recipes. Additionally, the website will have a recipe submission and editing feature, which allows users to submit their own recipes and edit existing ones. The website will also have a social integration feature, where critic can rate recipes, and make comments. The improved version will also have a mobile app, which will provide a better user experience on mobile devices. Overall, the proposed improved system aims to make the food recipe website more user-friendly, interactive and engaging.

#### 3.1 Limitations of the Existing System

- Lack of variety
- Limited user feedback
- Limited accessibility

To overcome the drawbacks on the existing system a new system has to be implemented. In the proposed system, Advantages and Features of the Proposed System

- Simple design
- Easy to operate
- Wide range of recipes
- Reliable & Secure

### IV. BACKGROUND

Technologies used in this Project:

The MERN stack is a popular combination of technologies used to build web applications. MERN can be expanded as MongoDB, Express.js, React.js, and Node.js. Each component of the stack has a specific role to play in the web application development process. MongoDB is a NoSQL database that is used to store and manage the application data. Express.js is a server-side framework for Node.js that helps in building RESTful APIs and handling HTTP requests. React.js is a front-end framework used for building user interfaces. Node.js is a garçon-side JavaScript runtime used to make scalable and high- performance operations[3].

V. RESULTS AND DISCUSSIONS

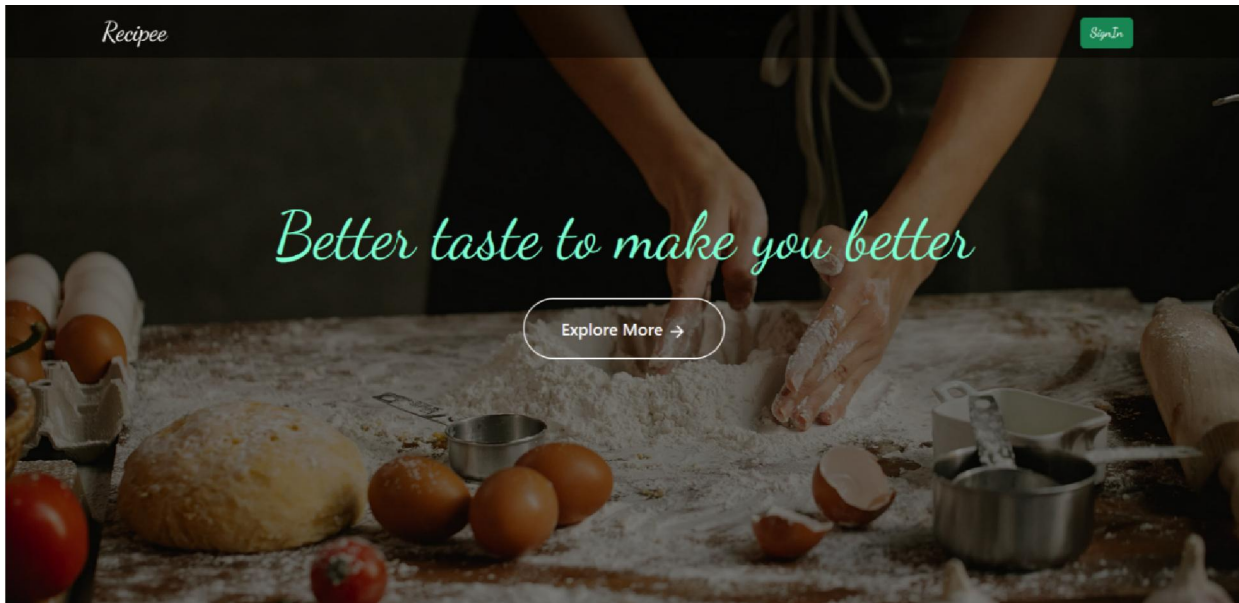


Figure 1: Home Page

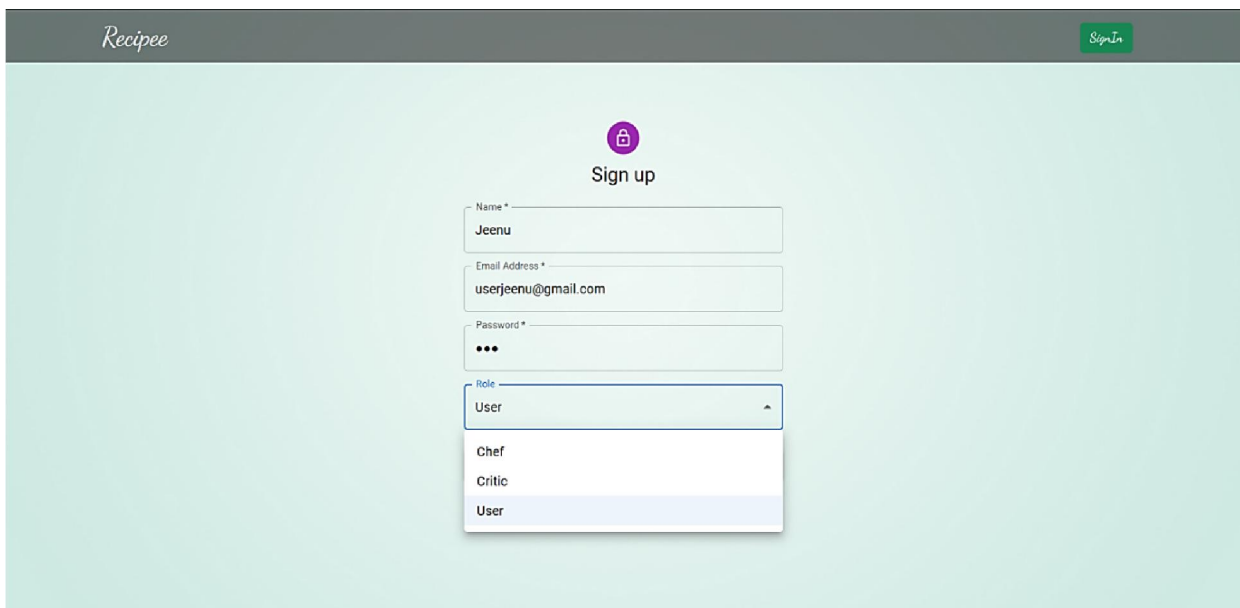


Figure 2: Sign UP page

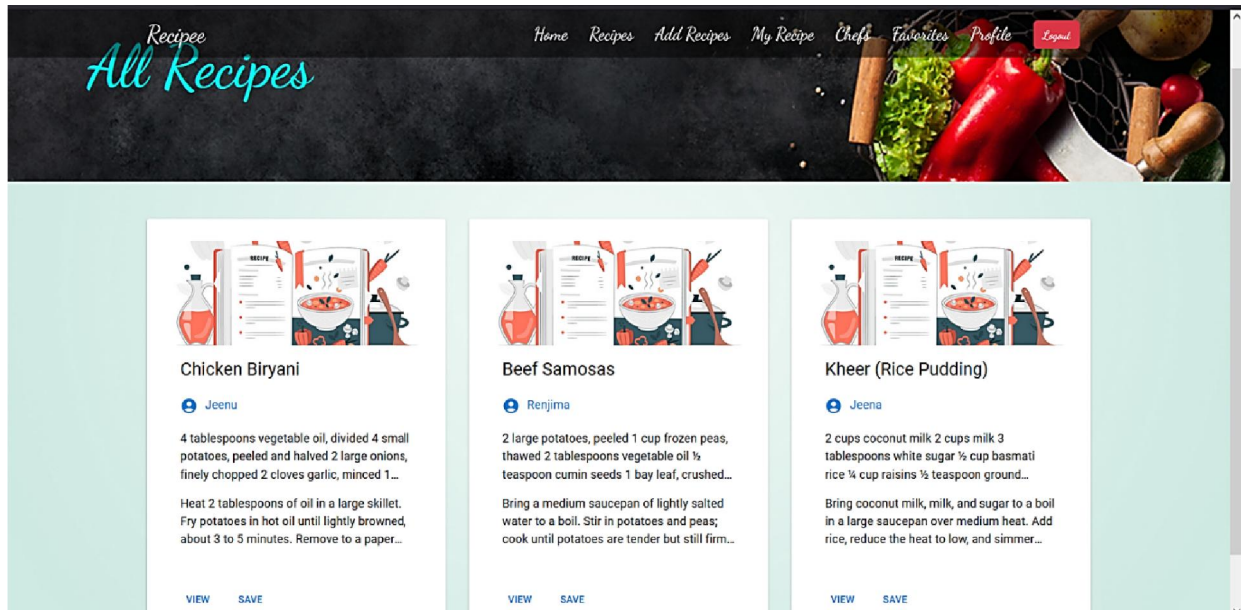


Figure 3: All recipes page

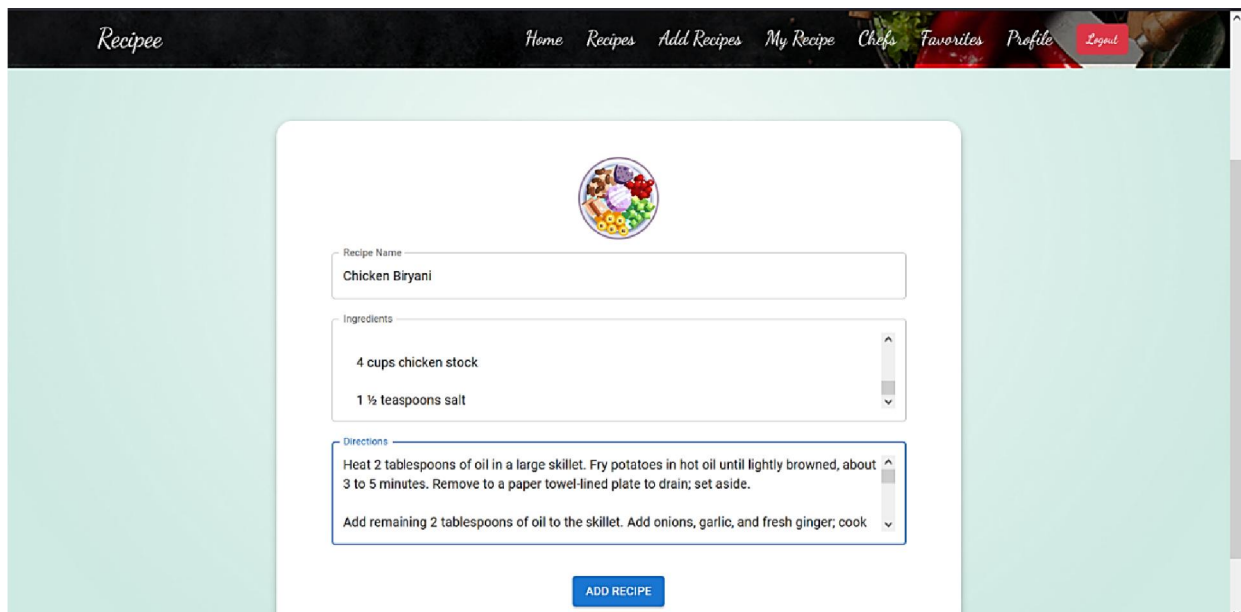


Figure 4: Add recipes page

## VI. CONCLUSION

In conclusion, "Recipe Sharing Website" project is a valuable resource for cooking enthusiasts who are looking to contribute their own recipes. The website provides a user-friendly interface that makes it easy to share recipes, and the ability for users to contribute their own recipes helps to build a community of recipe enthusiasts. The literature survey highlighted the importance of user behaviour analysis, user-generated content, and information architecture in designing a successful recipe website. The methodology section outlined the key steps involved in developing the website, including designing the user interface, developing the database, and testing the website for usability. Potential future enhancements were also identified, including integration with smart kitchen devices, personalization features,

social media integration, nutritional information, user ratings and reviews, and video tutorials. By considering these future enhancements, "Recipe Sharing" website project can continue to evolve and provide a valuable resource for cooking enthusiasts.

Overall, "Recipe Sharing" project has the potential to make a significant contribution to the online cooking community, providing a platform for users to share and discover new recipes, connect with other cooking enthusiasts, and improve their cooking skills.

In future adding, modifying, or developing the code to support the changes in the specification. It is the process of adding new capabilities such as Integration with smart kitchen devices, social media integration, Video tutorials. Further modifications and extensions can be made in the system to make overall work easier. The major enhancements are prevention of Session hijacking, IP spoofing attack etc. [4].

### REFERENCES

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