

# Problem Defination

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1. The food and recipe management system is a web-based application that aims to simplify the process of managing food and recipe collections. Many people struggle with organizing their recipes, keeping track of the ingredients needed, and planning meals for the week. This system provides an easy-to-use and accessible platform for users to add, edit, and search for recipes. Additionally, the system provides features for generating meal plans and shopping lists based on user preferences and recipe collections. Nutritional information and user ratings help users make informed decisions about what to cook.
2. The food and recipe management system is built using PHP and a MySQL database to store recipe information. The user interface is designed to be user-friendly and accessible from any device with an internet connection. The system allows users to add new recipes to their collection, including ingredients, instructions, and cooking time. Users can also edit existing recipes to make changes or updates. The search functionality allows users to find recipes based on keywords, ingredients, or other criteria
3. The system also allows users to save recipes to a "favorites" list for easy access later. Users can create meal plans by selecting recipes and assigning them to specific days of the week. The system then generates a shopping list based on the ingredients required for selected recipes. This feature

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helps users save time and effort in planning and preparing meals for the week.

4. The food and recipe management system also allows users to rate recipes and view ratings from other users. This feature helps users make informed decisions about what to cook by providing feedback from other users. Additionally, the system provides nutritional information for each recipe, including calories, fat, protein, and carbohydrates. This information helps users make healthy choices and meet their dietary needs.
5. Security features such as user authentication and authorization are also implemented to protect user data. This ensures that only authorized users can access and modify their recipe collections.

# Scope of System

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1. The food and recipe management system is a comprehensive application that provides a range of features to help users manage their food and recipe collections. The system is designed to be scalable and can be used by individuals, families, or even commercial establishments such as restaurants or catering services.
2. The primary scope of the system is to provide an easy-to-use platform for users to store and organize their recipe collections. Users can add new recipes, edit existing ones, and search for recipes based on various criteria. They can also save recipes to a "favorites" list for easy access later. Additionally, the system allows users to create meal plans by selecting recipes and assigning them to specific days of the week. The system automatically generates a shopping list based on the required ingredients for selected recipes.
3. The system also includes security features to protect user data. User authentication and authorization are implemented to ensure that only authorized users can access and modify their recipe collections.
4. In summary, the food and recipe management system is a versatile application that can be used by individuals or commercial establishments to manage their recipe collections efficiently. With its range of features, user-friendly interface, and security measures, the system is an invaluable tool for anyone looking to simplify the process of meal planning and preparation.

# System Requirements

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1. Web server: A web server that supports PHP, such as Apache or Nginx. PHP: The system is built using PHP, so a version of PHP 7.0 or higher must be installed on the web server.
2. MySQL: The system uses a MySQL database to store recipe information, so a MySQL database server must be installed and configured.
3. Web browser: The system is web-based, so users will need a modern web browser to access the application. Popular web browsers such as Google Chrome, Mozilla Firefox, and Safari are all supported.
4. Internet connection: The system requires an internet connection to access the application and store data.
5. Disk space: Sufficient disk space must be available on the server to store recipe information, user data, and other files associated with the system.
6. Security: To protect user data, the web server must have appropriate security measures in place, such as Avoid SQL injection.

# Feasibility Study

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## Economic feasibility -:

The food and recipe management system has the potential to generate revenue through various means, such as subscriptions, advertisements, or commissions from e-commerce partners. The development cost of the system must be compared to the expected revenue to determine its financial viability. A detailed cost-benefit analysis should be conducted to ensure that the project is economically feasible.

## Technical feasibility -:

The development team must have the necessary technical expertise to build the system. The team should assess the feasibility of using open-source technologies and third-party services to reduce development time and cost. The system should be scalable and easily maintainable to accommodate future updates and enhancements.

## Operational feasibility -:

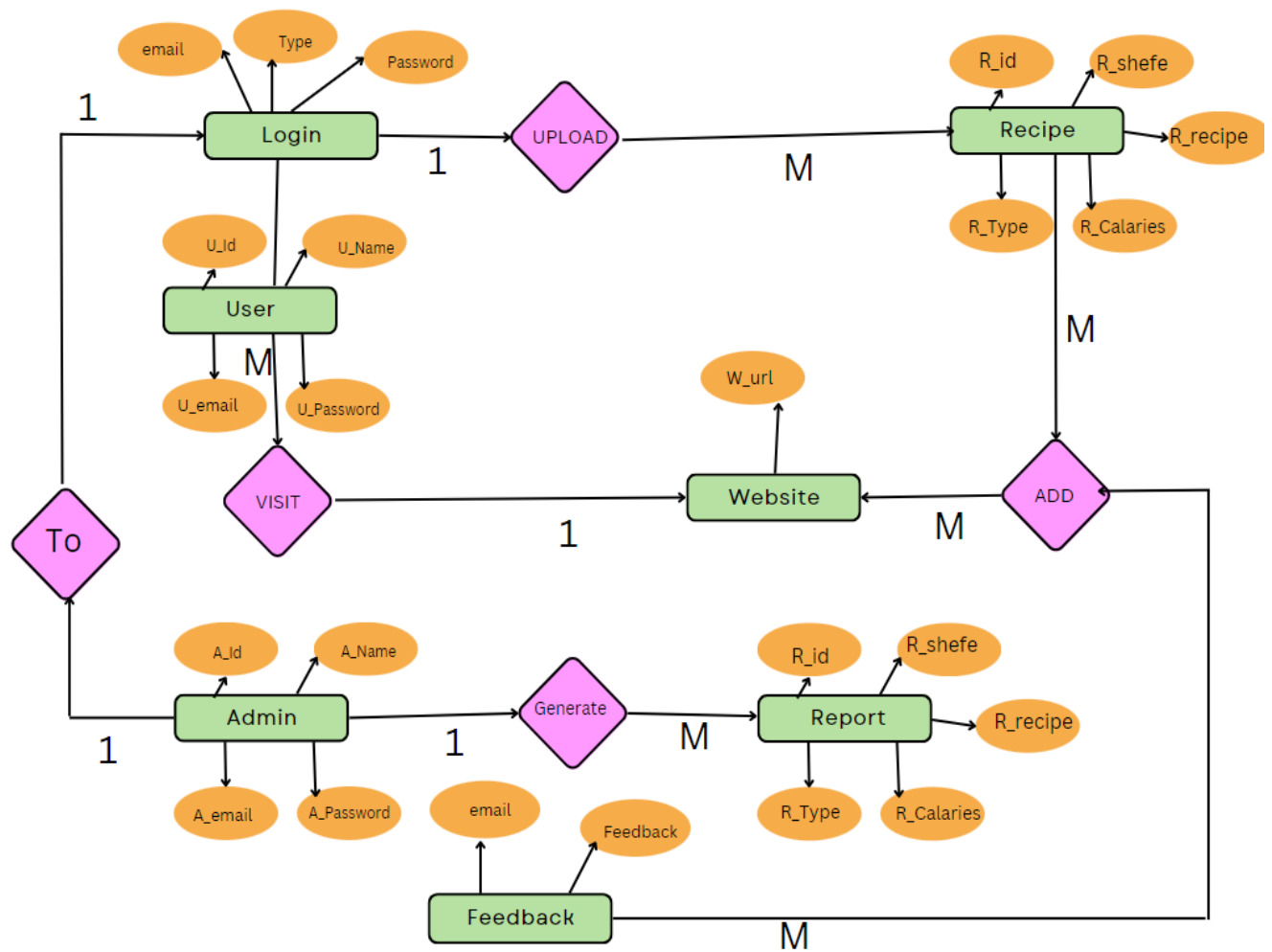
The system should be user-friendly and easy to navigate, with a clear and intuitive user interface. The system must be able to handle large volumes of data and traffic without significant downtime or performance issues. The development team must also consider the system's compatibility with various devices and browsers to ensure that it can be accessed from a wide range of platforms.

# INDEX

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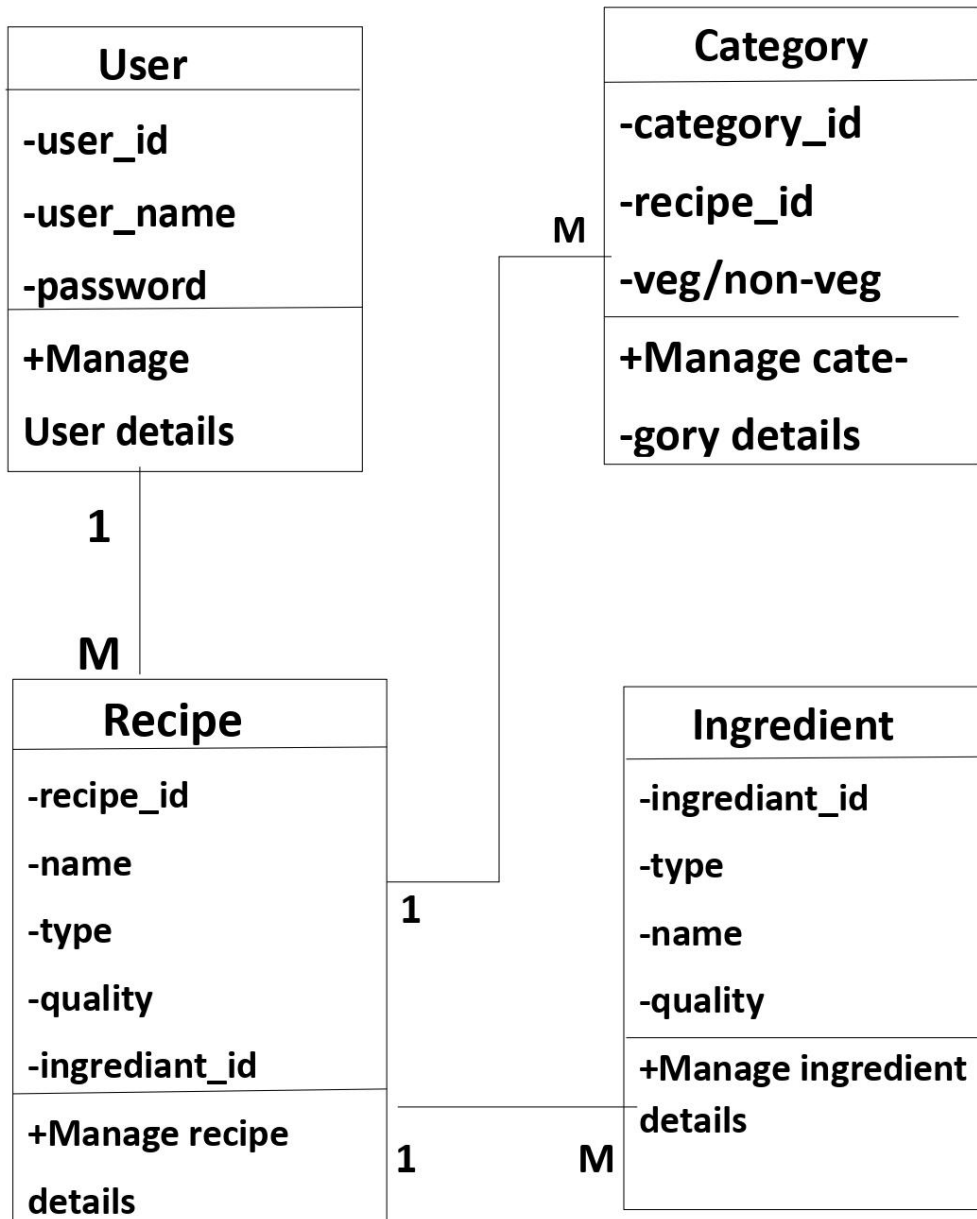
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# E-R Diagram



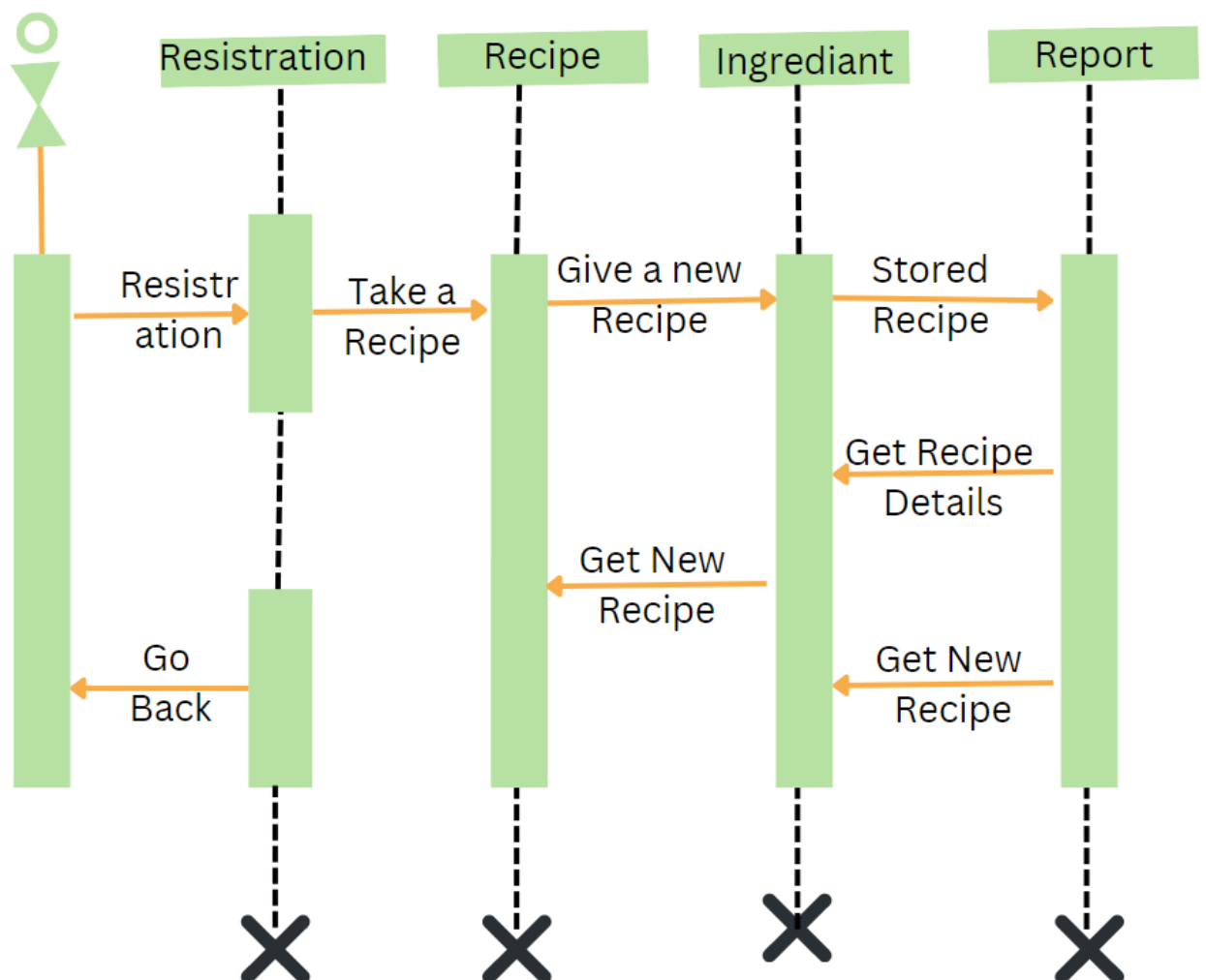
# Class Diagram

Food and Recipe Management System  
Class Diagram

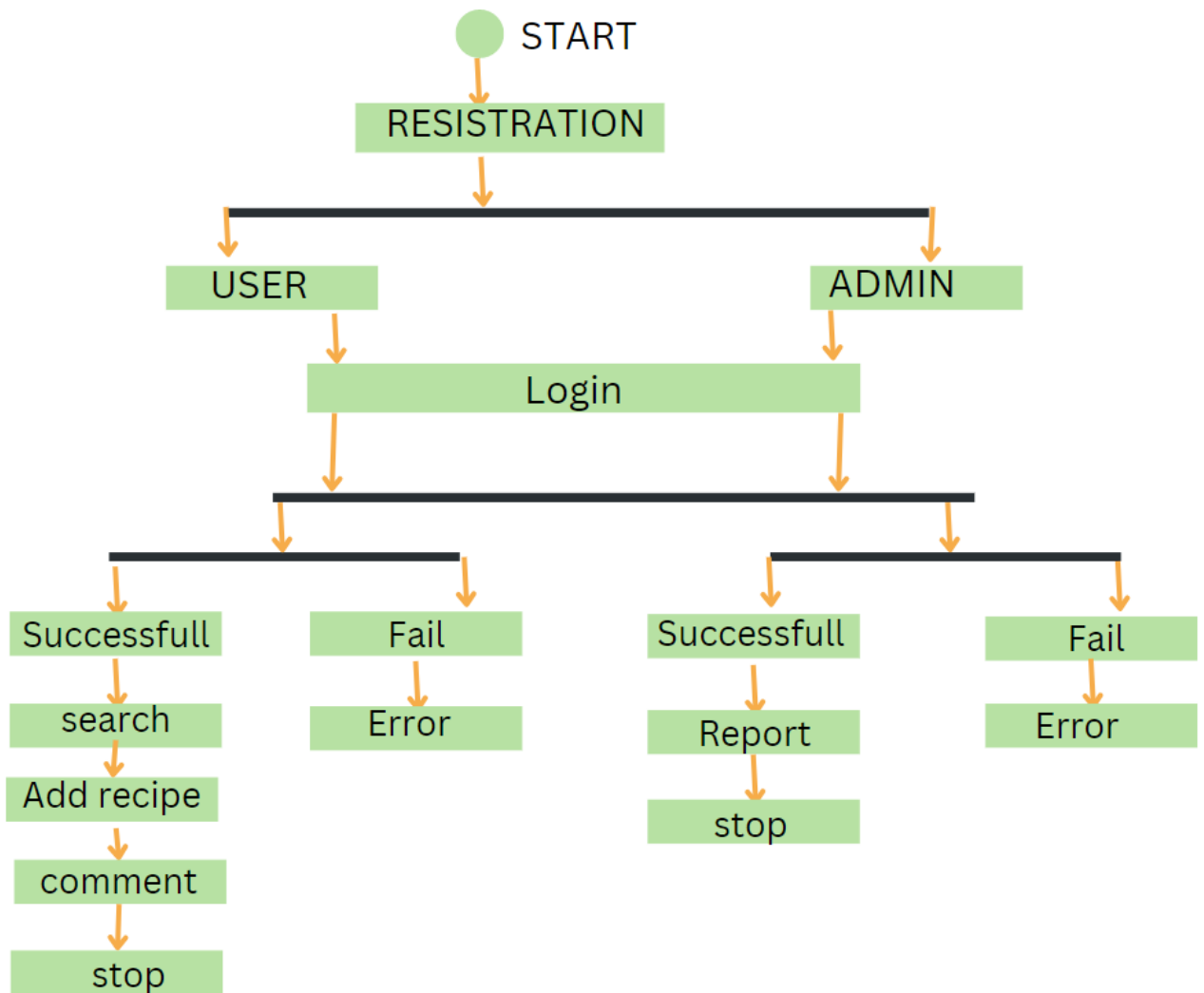




# Sequence Diagram



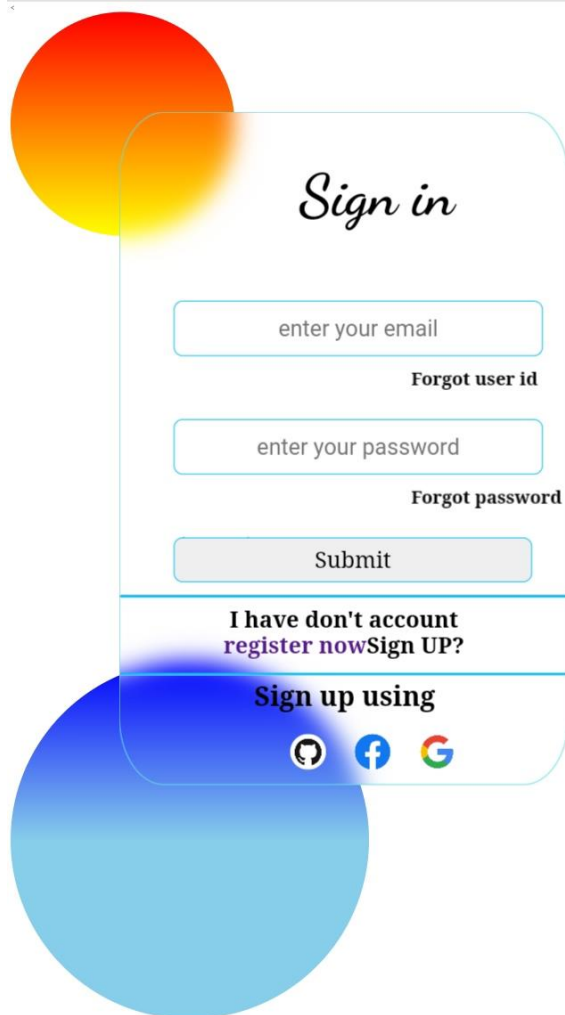
# Activity Diagram



# Input screens

## RESISTRATION PAGE

## LOGIN PAGE



The login page features a central white rounded rectangle with a light blue border. To its left is a large orange-to-yellow gradient circle, and below it is a large blue-to-light-blue gradient circle. The form is titled "Sign in" in a black script font. It contains two input fields: "enter your email" and "enter your password". Below the email field is a link "Forgot user id", and below the password field is a link "Forgot password". A "Submit" button is at the bottom of the input section. Below a horizontal line, the text "I have don't account" is followed by "register now" in purple and "Sign UP?" in black. At the bottom, "Sign up using" is followed by three social media icons: GitHub, Facebook, and Google.

*Sign in*

enter your email

[Forgot user id](#)

enter your password




[Forgot password](#)

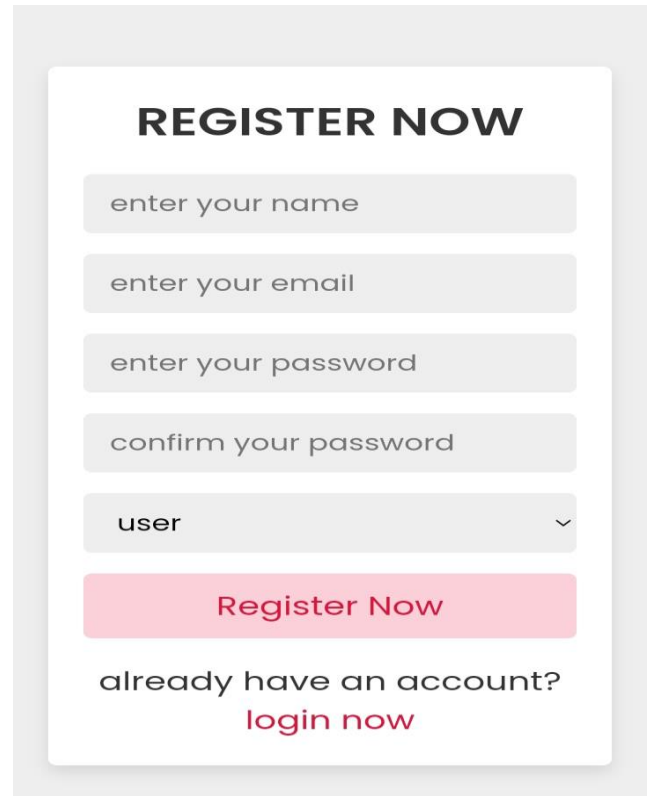
Submit

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I have don't account  
[register now](#) Sign UP?

Sign up using



The registration page features a white rounded rectangle with a light gray border. The form is titled "REGISTER NOW" in a bold black sans-serif font. It contains four input fields: "enter your name", "enter your email", "enter your password", and "confirm your password". Below these is a dropdown menu labeled "user" with a downward arrow. A pink "Register Now" button is positioned below the dropdown. At the bottom, the text "already have an account?" is followed by "login now" in red.

**REGISTER NOW**

enter your name

enter your email

enter your password

confirm your password

user ▾

Register Now

already have an account?  
[login now](#)

# Input Screens

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≡ open



Name:

Email:

Number:

Message:

Send

# Output Screens

≡ open

number	recipe name	shape name	recipe type
1	Chicken biryani	Akash	Non-vege
6	Tandur	Saurabh	Non-vege
7	Chicken roll	Jadhav mam	Non-vege

## Tandur Recipe



### ingrediunts

Chicken 500 Gm (Grams) (FOR FIRST MARINATION) - Preferably Drumsticks

Ginger Garlic Paste (Adrak Lahsun ka Paste)

Lemon Juice (Neemhu Ras) 5 Tsp (Teaspoons) (FOR FIRST MARINATION)

Black Salt (Kala Namak) 1/2 Tsp (Teaspoons) (FOR FIRST MARINATION)

Red Chilli Powder (Lal Mirch Powder)

Curd (Dahi) 1 TBsp (Tablespoons) (FOR SECOND MARINATION) - Hung Curd

Ginger Garlic Paste (Adrak Lahsun ka Paste) 1 Tsp (Teaspoons) (FOR SECOND MARINATION) - Preferably Homemade

# Output Screens



# Output Screens

Recipe ID	Shape	Ingredient	Procedure	Calorie
Biryani 1	Akash	Xyz	Asdfgh	10
Biryani 2	Akash	Xyz	Asdfgh	10
Biryani 3	Akash	Xyz	Asdfgh	10
Pulav	5 Jadhav mam	Xyz	Gahsjsjsis	10
Biryani 6	Fff	Frfr	Frtr	Rr
Pizza	7 Tanvi	2 cup all purpose flour 100 grams processed cheese 100 mililitre tomato ketchup 4 mushroom 1 tomato	Xxxxxx	10

Server: localhost » Database: user\_db

Filters

Containing the word:

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> add_recipe	★ Browse Structure Search Insert Empty Drop	6	MyISAM	utf8_general_ci	3.2 KiB	828 B
<input type="checkbox"/> contact	★ Browse Structure Search Insert Empty Drop	8	MyISAM	utf8_general_ci	2.5 KiB	-
<input type="checkbox"/> searchdata	★ Browse Structure Search Insert Empty Drop	7	MyISAM	utf8_general_ci	2.3 KiB	-
<input type="checkbox"/> user_comment	★ Browse Structure Search Insert Empty Drop	56	MyISAM	utf8_general_ci	3.3 KiB	-
<input type="checkbox"/> user_form	★ Browse Structure Search Insert Empty Drop	46	MyISAM	utf8_general_ci	5.0 KiB	-
5 tables	Sum	123	MyISAM	utf8_general_ci	16.2 KiB	828 B

☐ Check all / Check tables having overhead With selected:

Console

# FUTURE Enhancements

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1. User Accounts: Add a user account feature that allows users to save their favorite recipes, create shopping lists, and share recipes with friends.
2. Meal Planning: Incorporate a meal planning feature that allows users to plan their meals for the week or month and generates a shopping list based on the selected recipes.
3. Nutritional Information: Add a feature that displays the nutritional information of each recipe, including calories, macronutrients, and micronutrients.



# Conclusion

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In conclusion, a food and recipe management system PHP project has tremendous potential for enhancements and features that can improve its functionality and user experience. From user accounts, meal planning, and nutritional information to ingredient substitutions, reviews and ratings, and shopping list optimization, there are many ways to enhance the system. Additional future enhancements such as gamification, community features, augmented reality, and voice-enabled recipe navigation can make the system even more engaging and useful to users. Moreover, social responsibility and sustainability elements, multiple language support, and integration with smart appliances and meal kit services can further improve the system's capabilities and reach. The possibilities for future enhancements are endless, and developers can choose the ones that align with the project's goals and target audience.

# Bibliography

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Include all sources that were consulted during the research process, such as books, articles, websites, and interviews.

## Books:

"The Flavor Bible" by Karen Page and Andrew Dornenburg

"The Joy of Cooking" by Irma S. Rombauer, Marion Rombauer Becker, and Ethan Becker

"The Professional Chef" by The Culinary Institute of America

## Websites:

Epicurious (<https://www.epicurious.com/>)

Allrecipes (<https://www.allrecipes.com/>)

Food52 (<https://food52.com/>)

<https://www.w3schools.com/php/>

THE END

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THANK YOU

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