**Abstract**

**Project Title: TASTEIT – A Recipe Sharing Web Application**

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**TasteIt** is a dynamic and interactive recipe-sharing web application developed using PHP and MySQL. In an age where food lovers and home cooks rely heavily on digital platforms for culinary inspiration, most existing solutions lack structure, dietary filtering, or meaningful community interaction. This project is designed to meet that need by creating a user-friendly platform where anyone can easily find, share, and manage their favorite recipes all in one place.

The primary objective is to create an online space where users can upload recipes with ingredients, steps, and images, and where others can engage through comments, likes, and ratings. A standout feature is the meal planner section tailored for health-conscious users, offering options like weight loss and weight gain meal ideas. Unregistered users can explore and search recipes, while registered users can interact fully by adding content, saving favorites, and managing their profiles. Admin will oversee platform activity, manage reported content, and analyze trends through user statistics.

The application uses **PHP** for server-side development, **MySQL** for database management, and **HTML, CSS, and JavaScript** for a responsive front-end. This website hope to build a welcoming and secure online space where food lovers can connect, share their favorite recipes, and get inspired to eat healthier and cook more creatively.

**Project Objectives**

 To develop a dynamic web application for recipe discovery, contribution, and community interaction.

 To implement user roles (unregistered users, registered users, admin) with role-based functionality access.

 To enable registered users to upload, edit, delete, and bookmark recipes with images and instructions.

 To create a meal planning section targeting specific health goals such as weight loss and weight gain.

 To provide admin controls for content moderation, analytics viewing, and user management.

**Functional Requirements**

**A. User Management**

1. The system shall allow new users to register and existing users to log in securely.
2. The system shall support three roles: Unregistered User, Registered User, and Admin.
3. Registered users shall be able to update their profiles and change their passwords.
4. The admin shall have the ability to block or delete users as needed.

**B. Recipe Management**

1. Registered users shall be able to add new recipes including title, ingredients, preparation steps, category, and images.
2. Registered users shall be able to edit or delete their own recipes.
3. All users (including unregistered) shall be able to view recipe details.
4. The admin shall be able to view, approve, or delete any recipe.

**C. Interaction & Engagement**

1. Registered users shall be able to comment on and rate recipes.
2. Registered users shall be able to like and bookmark recipes.
3. The system shall allow users to report inappropriate content.
4. The admin shall be able to view and take action on reported content.

**D. Meal Planning (Health Goals)**

1. The system shall allow users to explore meal plans categorized by health goals (e.g., weight loss, weight gain).
2. Registered users shall be able to create custom meal plans by selecting recipes.

**E. Search & Filter**

1. The system shall allow all users to search for recipes by name, category, ingredient .
2. The system shall allow users to filter recipes based on dietary preferences or goals.

**F. Admin Dashboard**

1. The admin shall have access to platform analytics such as total users, most liked recipes, and active contributors.
2. The admin shall be able to manage reported comments or recipes and moderate content as needed.

## ****Non-Functional Requirements****

### A. Performance

1. The system shall load key pages (recipe view, dashboard) under standard load conditions.
2. The database shall handle up to 100 concurrent users without performance degradation.

### B. Security

1. User passwords shall be encrypted in the database using secure hashing algorithms.
2. The system shall validate all user input to prevent SQL injection and XSS attacks.
3. The platform shall include role-based access control.

### C. Usability / UX

1. The application shall provide a responsive design for smooth use on desktops, tablets, and mobile devices.
2. The user interface shall be intuitive, with consistent navigation and easy access to all features.
3. The system shall provide clear validation/error messages during user actions.

### D. Reliability

1. The system shall maintain 99% uptime during operational hours.
2. The application shall ensure that no data loss occurs during user session interruptions.

### E. Maintainability

1. Code shall be modular and commented for easier maintenance and future feature additions.
2. The system shall use a clean file structure, separating front-end, back-end, and database logic.

### F. Scalability

1. The system shall support growth in the number of users and recipes without major structural changes.
2. The platform shall allow integration of additional features like video recipes or seasonal promotions in the future.

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