Recipe Management System

Project Title

Recipe Management System

Project Description

The Recipe Management System is designed to simplify and organize the management of culinary recipes for users. It provides a platform for adding, updating, and deleting recipes while offering features to search and filter recipes based on various criteria. This project aims to enhance user convenience by enabling them to maintain a structured repository of recipes that is accessible and easy to manage.

Review 1: Project Initialization and Database Setup

Submission Requirements:

1. **Project Title: Recipe Management System.**
2. **Description:**
   - **A web-based platform to manage recipes effectively.**
   - **Key functionalities include user authentication, recipe CRUD operations, and advanced filtering.**
   - **Built using Maven with Servlets, JSP, and Bootstrap.**

Objectives:

- **Submit a concise project title and description.**
- **Establish a clear foundation for future development.**

Review 2: HTML Templates and Styling

Submission Requirements:

1. **HTML Templates:**
   - **Design professional HTML pages for user management, including login, registration, and recipe management.**
2. **CSS and Bootstrap Styling:**
   - **Ensure responsive and visually appealing templates.**
3. **JavaScript Interactivity:**
   - **Implement form validation and interactive features.**

Marking Rubric:

1. **Design HTML templates for user management - 4 marks.**
2. **Style HTML templates using CSS and Bootstrap - 2 marks.**

3. **Implement JavaScript for form validation and interactivity - 2 marks.**

Review 3: Core Features Implementation

Submission Requirements:

1. **Servlets and JSP Integration:**
   - **Create Servlets for recipe CRUD operations.**
   - **Implement doGet and doPost methods.**
   - **Integrate JSP with Servlets for dynamic content rendering.**
2. **Core Features:**
   - **Recipe management functionalities (Add, View, Update, Delete).**
   - **User profile management.**
3. **Additional Requirements:**
   - **Use JSTL and EL in JSP pages.**

Marking Rubric:

1. **Create and configure Servlets - 3 marks.**
2. **Implement doGet and doPost methods - 3 marks.**
3. **Recipe management via Servlets - 4 marks.**
4. **Integrate JSP with Servlets - 4 marks.**
5. **Use JSTL and EL in JSP pages - 2 marks.**

Review 4: Final Submission and Documentation

Submission Requirements:

1. **Testing and Validation:**
   - **Conduct unit tests for service and DAO layers.**
   - **Implement robust error-handling mechanisms.**
   - **Validate user inputs thoroughly.**
2. **Code Quality:**
   - **Modular design with well-documented code.**
   - **Proper commenting and consistent coding standards.**
3. **Documentation:**
   - **Provide detailed project documentation.**
   - **Include a README file in the GitHub repository.**

Marking Rubric:

1. **Unit testing for service and DAO layers .**
2. **Final project review and demonstration .**
3. **Prepare and submit comprehensive documentation .**

Future Enhancements

1. **Implement a recommendation system based on user preferences.**

2. **Enable social sharing features for recipes.**
3. **Develop a mobile-friendly version of the application.**
4. **Integrate advanced search options using tags and ingredients.**

The Recipe Management System is a comprehensive platform designed to streamline recipe management for users. With a focus on functionality, aesthetics, and user experience, the project serves as an excellent demonstration of the team's ability to deliver high-quality software solutions. This system has the potential to evolve into a scalable and feature-rich application, catering to a wide audience of culinary enthusiasts.