

**[Mama's Kitchen]**

**[Shantiel Parker]**

## **Online Recipe Sharing Platform**

This project aims to create an online recipe sharing platform where users can discover, share, and organize their favorite recipes. The motivation behind this project is to address the need for a user-friendly and centralized platform for culinary enthusiasts to access a wide variety of recipes, contribute their own creations, and connect with a community of fellow food lovers. The target users are home cooks, professional chefs, and anyone passionate about cooking. By providing a platform for recipe sharing and collaboration, we aim to simplify the process of finding and trying new recipes while fostering a sense of community among users. However, this project will also present challenges such as ensuring data accuracy, user-generated content moderation, and creating an engaging user experience to keep users actively participating in the community.

### **MVP Feature Requirements for Online Recipe Sharing Platform:**

- As an anonymous user, I would like to: Browse and search for recipes by category, cuisine, ingredients, or user ratings.
- View recipe details, including ingredients, instructions, preparation time, and user reviews.
- Create a user account.
- Log in to an already-created account.
- Add recipes to my favorites list for quick access.
- Share recipes on social media platforms.
- Access a user-friendly interface for a seamless recipe discovery experience.
- As a logged-in user, I would like to: Upload and share my own recipes with the community.
- Edit or delete recipes I've shared.
- Comment on and rate recipes shared by other users.
- Follow other users and receive updates on their recipe contributions.
- Manage my profile information, including a profile picture and bio.
- Receive personalized recipe recommendations based on my activity and preferences.
- Keep track of my uploaded recipes and contributions in a user dashboard.

As an administrator (admin), I would like to: Have the ability to monitor and moderate user-generated content for quality and appropriateness.

- Manage user accounts and privileges.

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- Receive notifications about reported content and take necessary actions.
- Have access to analytics and usage statistics for the platform.
- These features will provide a basic and functional online recipe sharing platform that caters to the needs of both recipe creators and consumers.

#### **Technical Requirements for Online Recipe Sharing Platform:**

Back end:

Set up a working Node.js and Express server to handle API requests.

Create API routes for both authenticated and anonymous users.

Implement user authentication and authorization using JWT (JSON Web Tokens).

Establish a connection to the PostgreSQL database for storing user data, recipes, comments, and other relevant information.

Define and create the necessary database tables and schemas.

Implement data validation and sanitization to ensure data integrity and security.

Create API endpoints for user registration, login, recipe CRUD (Create, Read, Update, Delete) operations, user interactions (like, follow, comment), and user profile management.

Front end:

Develop a user-friendly and responsive React-based front-end application.

Implement client-side routing using React Router for navigating between different pages and views.

Design and build user interfaces for recipe browsing, searching, and viewing.

Create user authentication components for registration, login, and password reset.

Develop user profile pages for viewing and editing user information, favorites, and contributions.

Build a recipe submission form with fields for ingredients, instructions, images, and metadata.

Create interactive components for liking, commenting, and rating recipes.

Design and implement a user dashboard for managing uploaded recipes and interactions.

Develop personalized recommendation features based on user activity and preferences.

Hosting and Deployment: Explore and evaluate hosting options like Render (and alternatives) for both the back end and front end of the application.

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Set up deployment pipelines for automated deployment of code changes.

Configure server environments for development and production.

Ensure proper CORS (Cross-Origin Resource Sharing) configuration for secure API requests.

Implement SSL/TLS encryption for secure data transmission.

Set up error handling and logging mechanisms for debugging and monitoring.

These technical requirements will serve as a roadmap for building a functional online recipe sharing platform using the specified tech stack and ensuring a smooth user experience.

### **Mama's Kitchen - Recipe Application**

- Rough Implementation Plan:
- Week 1: Set up the development environment and project structure. Create the basic user interface with React components. Implement user registration and authentication.
- Week 2
- Week 3: Build the recipe submission form. Implement the ability to search for recipes by ingredients. Work on saving and displaying recipes.
- Week 4: Add the ability to comment on recipes. Develop user profiles and the ability to follow other users. Begin working on the moderation system.
- Week 5: Complete any remaining features. Perform testing and bug fixes. Prepare for deployment.

### **As an administrator, I would like to:**

- Accomplishing a functional application where I can provide a simple example of a recipe style to-do list application using HTML, CSS, JavaScript, and React.
- Rough Implementation Plan for Online Recipe Sharing Platform (MVP):
- Week 1: Project Setup and Basic Functionality
- Day 1-2:
- Set up a local development environment using Node.js and create-react-app.
- Initialize a Git repository for version control.
- Day 3-4:
- Research and compare hosting options such as Render, Netlify, or Vercel for both back end and front end.
- Choose a database system (PostgreSQL) and set up a database.
- Day 5-7:

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- Create a basic project structure for the front end with React components.
- Set up the back-end server using Express.js and define initial API routes for user authentication and recipe retrieval.
- Week 2: User Authentication and Database
  - Day 1-2:
    - Implement user registration and login components on the front end.
    - Set up authentication middleware on the back end using JWT.
  - Day 3-4:
    - Create database schemas for users, recipes, comments, and other entities.
    - Implement database models using an ORM like Sequelize for PostgreSQL.
  - Day 5-7:
    - Establish a connection between the back end and the database.
    - Implement user registration and login functionality on the back end.
- Week 3: User Profiles and Recipe CRUD
  - Day 1-2:
    - Design user profile pages for viewing and editing user information.
    - Implement user profile routes and components.
  - Day 3-4:
    - Develop recipe browsing and searching interfaces.
    - Create front-end components for displaying recipes and user interactions.
  - Day 5-7:
    - Build a recipe submission form with input fields for ingredients, instructions, images, and metadata.
    - Implement basic CRUD functionality for recipes (Create, Read, Update, Delete).
- Week 4: Interactions and Dashboard
  - Day 1-2:
    - Develop interactive components for liking, commenting, and rating recipes.
    - Enable users to follow other users and view their contributions.
  - Day 3-4:
    - Create a user dashboard for managing uploaded recipes and interactions.

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- Implement features like favoriting and commenting on recipes.

Day 5-7:

- Design and implement personalized recommendation features based on user activity and preferences.
- Optimize and fine-tune the application's performance.
- Week 5: Testing, Deployment, and Refinement

Day 1-2:

- Write unit tests and integration tests for both front end and back end components.
- Conduct extensive testing and debugging.

Day 3-4:

- Set up deployment pipelines for automated deployment.
- Deploy the application to a chosen hosting platform (e.g., Render).

Day 5-7:

- Perform user acceptance testing and gather feedback for refinements.
- Address any bugs, security vulnerabilities, or performance issues.
- By following this rough implementation plan, you can progressively build the Online Recipe Sharing Platform, ensuring that the MVP's major features and technical requirements are met while allowing flexibility for adjustments based on project developments and insights.

**GitHub Project:** <https://github.com/shantielparker/MamasKitchen>