

Flavor Fiesta - Requirements Documentation

1. Introduction

Flavor Fiesta is a Java Spring application that enables users to rate recipes, interact with a community, and provide feedback through comments and reviews. The system includes authentication, ranking mechanisms, and a data initializer for database population.

2. Functional Requirements

2.1 User Management

- Users can register and log in.
- Users can create, view, and delete their accounts.
- Users can retrieve their posted recipes.

2.2 Recipe Management

- Users can rate recipes.

2.3 Comment Management

- Users can add comments to recipes.
- Users can delete their own comments.
- Users can view all comments on a recipe.

2.4 Review Management

- Users can rate recipes on a scale of 1-5.
- Users can delete their own reviews.
- Users can view reviews for a recipe.
- Reviews must contain a rating between 1 and 10.

2.5 Ranking System

- Retrieve users with the most comments.
- Retrieve users with the most reviews.
- Retrieve top-rated recipes.

- Identify users with the most low-rated reviews.

2.6 Data Initialization

- A data initializer automatically populates the database if empty.

3. Non-Functional Requirements

3.1 Security

- Basic authentication is used for API access.
- Passwords are encoded using a predefined encryption method.
- Access control is enforced to prevent unauthorized deletions.

3.2 Performance & Scalability

- The application is containerized using Docker for easy deployment.
- Supports database separation for application and testing environments.

3.3 User Needs

- Users should be able to interact with the platform.

3.4 Deployment & Maintainability

- The system is deployed using `docker-compose`.
- The test database is used for automated testing purposes.