# Recipe sharing platform

An app where users can share their recipes, view other users’ recipes, like them, and leave feedback.

## Functional Requirements

### User Registration and Authentication

* Users should be able to register for an account.
* Users should be able to log in and log out securely.

### Administrator capabilities

* Administrators must be able to add categories to the system. Otherwise, a recipe cannot be created.

### Recipe Management

* Users can create, edit, and delete their recipes.
* Each recipe should have a title, ingredients, steps, and optional images.
* Recipes should be categorized (e.g., appetizers, main courses, desserts).
* Users can search for recipes by title, ingredients, or category.

### User Interaction

* Users can like, comment on, and save their favorite recipes.
* A social feature where users can follow other users.

### Recipe Discovery

* Featured recipes on the homepage.
* Random recipe suggestions for users.

### User Profile

* Users have a profile page displaying their recipes, followers, and following.
* Option to customize profile details and upload a profile picture.

### Security

* Users can only edit or delete the recipes they themselves created.

### Responsive Design

* The platform should be accessible and usable on different devices mobile -> tablet -> desktop

## Non-Functional Requirements

### Performance

* The platform should have low latency for recipe retrieval and updates.
* Images should be optimized for fast loading.

### Scalability

* The system should be able to handle a growing number of users and recipes.
* Scalability considerations for potential future features.

### Security

* Use secure protocols for user authentication and data transmission. HTTPS?
* Ensure secure storage of user passwords using encryption.

### Usability

* The user interface should be intuitive and easy to navigate.
* Accessibility considerations for users with disabilities.

### Documentation

* Provide user guides and tutorials for platform usage.

### Testing

* Implement automated testing for critical functionalities.
* Regular testing to identify and fix bugs.

### Collaboration

* Support for multiple team members working on the project simultaneously.
* Integration with version control systems (e.g., Git).

### Required software

* Java 21
* Maven
* Spring Boot 3+
* Spring Security 6+
* Node.js 20+
* React
* H2 database
* Selenium
* Rest Assured