**“RecipeHub”**

**1. What kind of app is it now?**

A Spring Boot + Thymeleaf web application for authenticated recipe sharing and lightweight community feedback.

**Key Features**

* **User Accounts**
  + **Register** and **login** with username + BCrypt-encrypted password.
  + **Access control** via Spring Security: only logged-in users may upload, rate, view “My Recipes,” or delete their own entries.
* **Recipe Management**
  + **Upload Recipes** with:
    - Title, Ingredients, Instructions (plain text)
    - Prep & Cook time (minutes)
    - Category (selected from predefined list)
    - Dietary Tags (checkboxes)
    - Image upload (saved under static/images or your chosen uploads folder)
  + **Duplicate-check** prevents the same user from submitting an identical recipe (all fields + tags).
  + **My Recipes** page lets each user view and **delete** only their own submissions.
* **Browsing & Discovery**
  + **Home (“Recent”)** feed shows all recipes ordered by upload date (newest first).
  + **Top Rated** page sorts recipes by average star rating (desc).
  + **Search** by title keyword (case-insensitive “contains” match).
  + **Recipe Details** page displays full info, tags, category, image, and the computed average rating.
* **Star-Rating System**
  + Logged-in users can rate any recipe from 1–5 stars.
  + Re-rating replaces the previous vote (no duplicate votes).
  + Average rating is calculated on-the-fly (no stored aggregate).
* **Logging**
  + SLF4J + Logback configured with both console and rolling-file appenders.
  + Controller actions (HomeController, AuthController, Security events) logged at DEBUG/INFO/WARN levels.
  + Daily-rolled log files kept 30 days under recipehub-uploads/recipehub.log\*.

**2. Who is this project for?**

* **Home Cooks & Foodies** who want to **share** and **discover** straightforward, categorized recipes with images.
* **Dietary-Conscious Users** relying on tags (e.g. vegan, gluten-free) to narrow down suitable dishes.
* **Community-minded Cooks** preferring a quick star-rating instead of lengthy reviews.
* **Administrators** (you, the developer/professor) overseeing user registrations, category/tag lists, and ensuring no duplicate or inappropriate content.

**3. What needs does it satisfy?**

* **Simple Content Sharing**
  + A minimal form captures all essential recipe data plus a photo.
  + Daily “Recent” feed keeps the home page fresh.
* **Quality Signals**
  + Star-only ratings let users instantly see which recipes the community enjoys most.
  + Top Rated page highlights crowd favorites.
* **User Ownership & Control**
  + Each user manages their own uploads, with the ability to delete old or unwanted recipes.
  + Duplicate-upload prevention maintains data cleanliness.
* **Basic Search & Filtering**
  + Keyword search across titles.
  + Category and tag selection at upload time (future filtering enhancements possible).
* **Audit Trail**
  + All key actions (login, register, upload, delete, rate) are logged to both console and file for debugging and auditing.