Task 2.5: Database Logic & Frontend Design

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Part 1: Database Models Review

Current Status: I have reviewed the Recipe model established in Exercise 2.3. The current schema includes the following attributes:

- name (String)
- ingredients (String)
- cooking_time (Integer)
- difficulty (String)
- description (Text)

Proposed Changes: I am **keeping the database structure identical** to Exercise 2.3 in terms of fields, but I am **updating the logic** for the difficulty field.

Reasoning:

- **Automation:** Previously, the difficulty field required manual entry. In this exercise, I am modifying the save method in models.py to calculate the difficulty automatically based on cooking_time and the number of ingredients.
- **Data Integrity:** This ensures that the difficulty rating is consistent across all recipes and removes the possibility of human error during data entry.
- **Efficiency:** No new columns are needed in the database table itself, as we are simply automating the population of an existing column.

Part 2: Frontend Inspirations

To design the look and feel of my Recipe App, I researched several leading recipe websites. My goal is to emulate their clear information hierarchy and navigation structure.

1. BBC Good Food

- **Link:** https://www.bbcgoodfood.com/
- **What I like:**

- **Information Hierarchy:** They place the "Cooking Time" and "Difficulty" level right at the top of the recipe detail page. This allows users to immediately decide if they have the time/skill to make the dish.
- **Clean Lists:** The ingredients are listed clearly with bullet points, separate from the method.
- **My Implementation:** I will mirror this by displaying the cooking_time and difficulty attributes prominently on my recipes_detail.html page, right under the title.

2. AllRecipes

- **Link:** https://www.allrecipes.com/
- **What I like:**
  - **Simple Navigation:** The "Back to Home" or breadcrumb navigation is always visible, making it easy to browse multiple recipes without getting lost.
  - **Readable Text:** They use high-contrast text for descriptions, making it easy to read while cooking.
  - **My Implementation:** I have added "Back to List" and "Back to Home" links on all my templates to ensure the user flow is smooth and circular, similar to AllRecipes.

3. Tasty (Buzzfeed)

- **Link:** https://tasty.co/
- **What I like:**
  - **Minimalism:** The interface is not cluttered. It focuses entirely on the content.
  - **My Implementation:** My recipes_home.html welcome page will use a clean, centered layout with a clear call-to-action button ("View All Recipes") to mimic this minimalist entry point.

Part 3: Design Execution Plan

Based on these inspirations, my application will feature:

1. **A Welcome Page:** A clean entry point (inspired by Tasty) that directs users to the content.

2. **A List View:** A clickable directory of recipe names.
3. **A Detail View:** A structured page (inspired by BBC Good Food) that calculates and displays the difficulty level alongside the description and ingredients.