

# Exercise 2.5: Django MVT revisited.

## Task 2.5: Recipe Application.

### Summary of model changes

**1. Adding the Image Field to the Recipe Model:** An `image` field will be added to the `Recipe` class using `models.ImageField(upload_to='recipes', default='no_image.png')`.

- **The Logic:** This provides each recipe with its own visual representation. By using `upload_to='recipes'`, Django automatically organizes these uploads into a specific subfolder within the project's `media/` directory. For recipes where no image is provided, a default `no_image.png` can be handled via logic or a field default to ensure the UI remains consistent.

**2. Decoupling Visuals from Calculation Logic:** The existing logic for `calculate_difficulty` is based on `cooking_time` and the number of ingredients counted via the `RecipeIngredient` junction table.

- **The Logic:** To maintain a clean database, no default image is assigned to ingredients. Instead, the field is set to `null=True` and `blank=True`. This allows the database to store a `NULL` value if no image is provided, which is more efficient for ingredients that do not require visual representation.

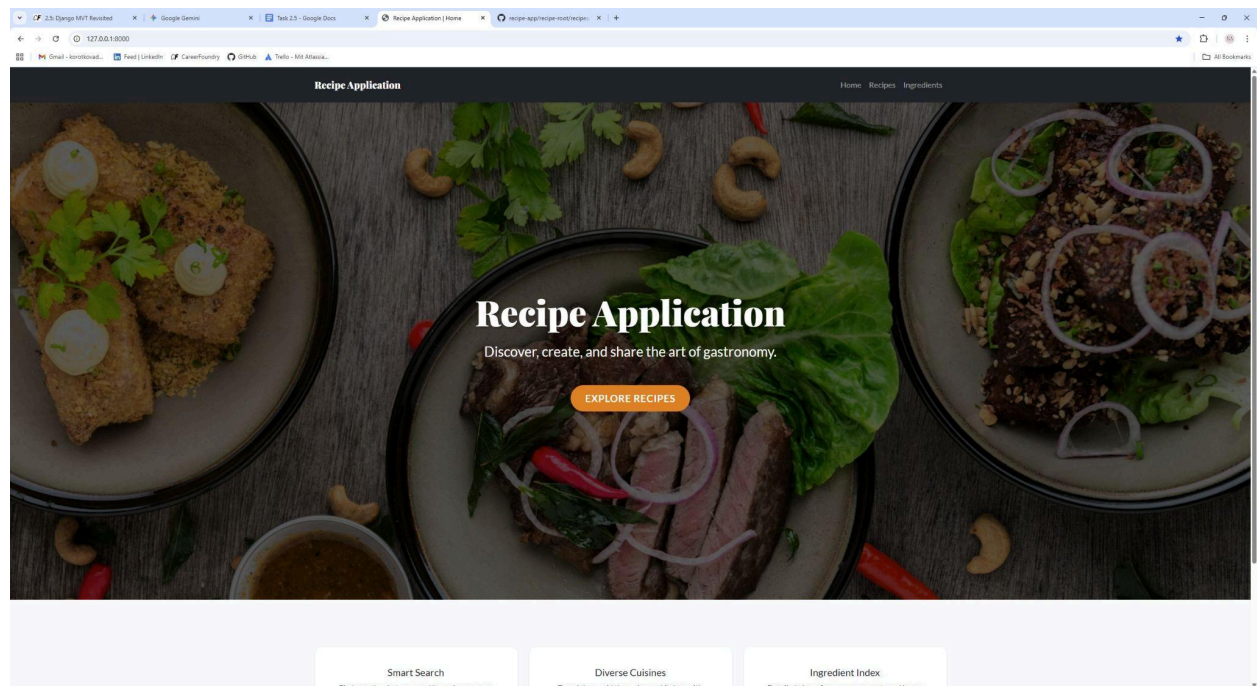
**3. Handling Optional Ingredient Pictures:** An `image` field has also been added to the `Ingredient` model.

- **The Logic:** Using `blank=True`, `null=True` for ingredient images ensures the model remains flexible. This allows for recipes to be created even if a specific photo for an ingredient - like "salt" - is unavailable.

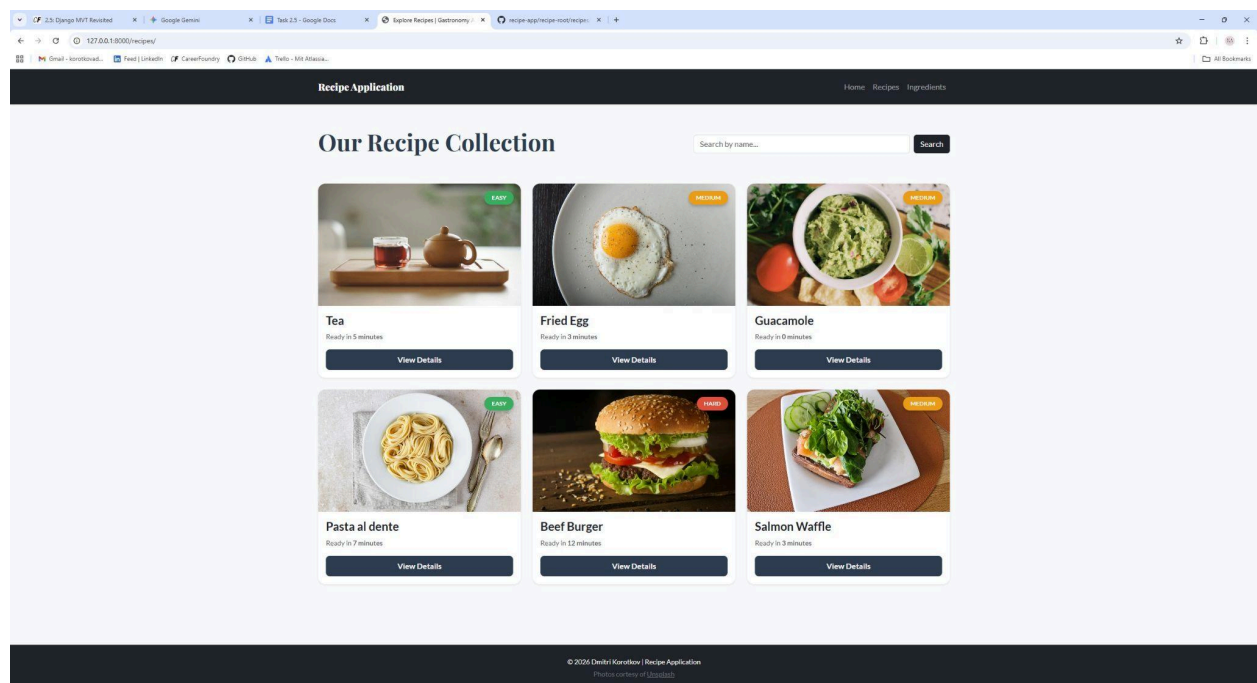
**4. Data Consistency and Display** The current `__str__` method provides a clear summary of the recipe's ID, Name, and Difficulty.

- **The Logic:** Including the `image` field allows for future integration into the front-end templates and the admin panel, while preserving the rigorous data integrity established in the `save()` methods.

# Recipe application homepage



# Recipe overview page



# Recipe details

2.5 Django MVT Revised

Google Gemini

Test 2.5 - Google Docs

Test | Recipe Application

recipe-app/recipe-root/recipe/


127.0.0.1:3000/recipe/1/

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All Bookmarks

Recipe Application

HomeRecipesIngredients



Tea

TIME  
5 mins

DIFFICULTY  
Easy

INGREDIENTS  
3 items

**Ingredients**

- Water
- Sugar
- Tea Leaves

**Chef's Note**  
This recipe's difficulty was automatically calculated as easy based on its preparation time and the complexity of its ingredient list.

ID: 1

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Google Gemini

Test 2.5 - Google Docs

Beef Burger | Recipe Application

recipe-app/recipe-root/recipe/

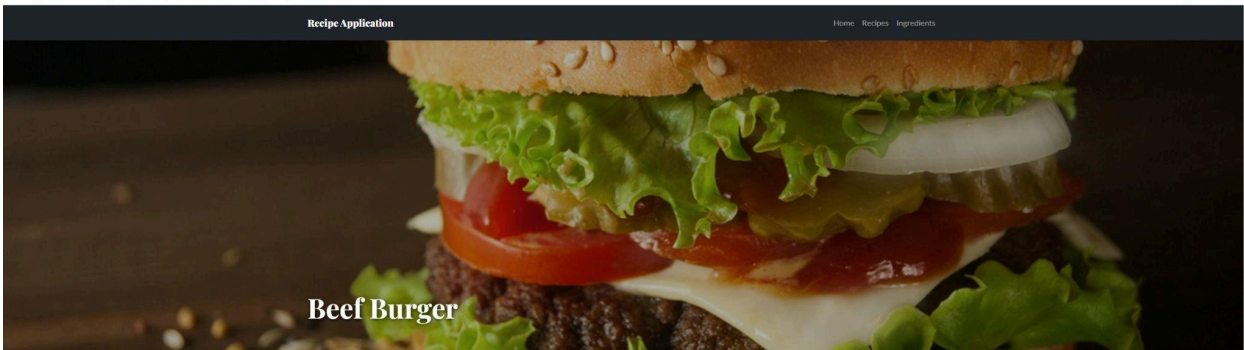
127.0.0.1:3000/recipe/5/

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All Bookmarks

Recipe Application

HomeRecipesIngredients



Beef Burger

TIME  
12 mins

DIFFICULTY  
Hard

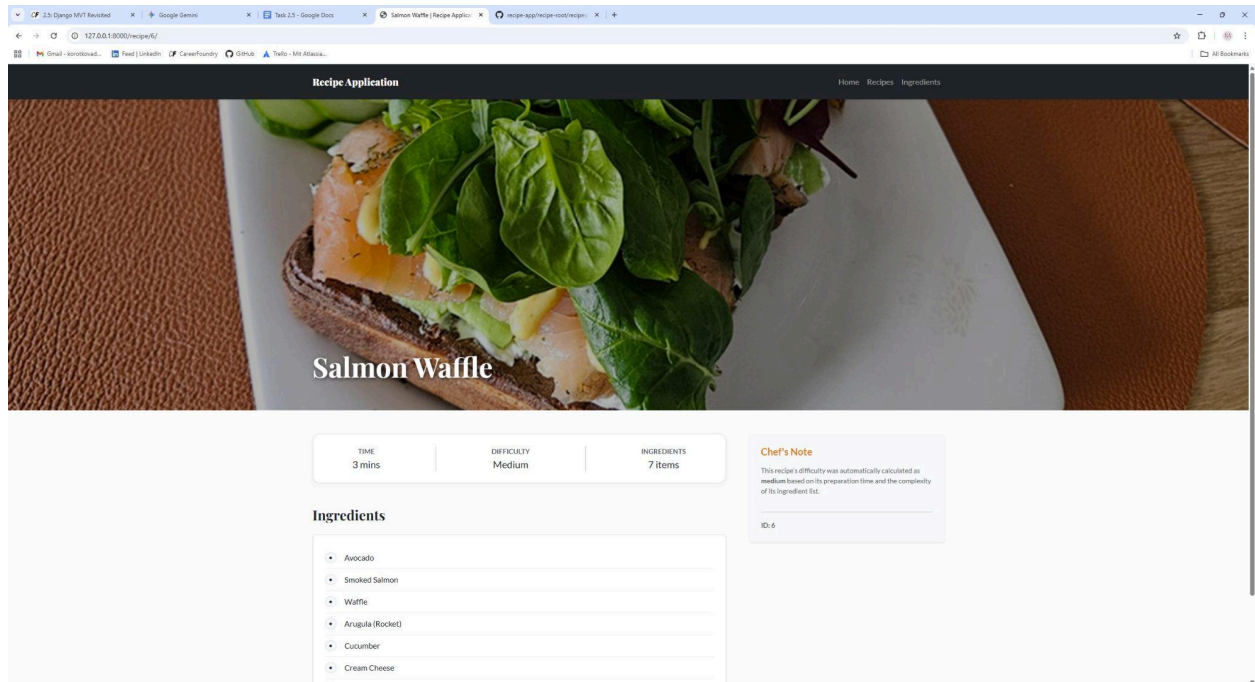
INGREDIENTS  
5 items

**Ingredients**

- Onion
- Ground Beef
- Burger Bun
- Lettuce
- Cheese

**Chef's Note**  
This recipe's difficulty was automatically calculated as hard based on its preparation time and the complexity of its ingredient list.

ID: 5



## Ingredient list

