## • Recipe Model:

```
from recipe ingredients.models import RecipeIngredient
def process_recipe_ingredients(ingredients_string):
   ingredients list = [ingredient.strip() for ingredient in
ingredients_string.split(',')]
  name = models.CharField(max length=120)
```

```
cooking time = models.PositiveIntegerField(help text="In minutes")
   min serving size = models.PositiveIntegerField(help text="Enter the
   type of recipe = models.CharField(max length=30,
   ingredients = models.TextField("ingredients.Ingredient", blank=True,
  directions = models.TextField(help text="Enter the directions for
  def calculate difficulty(self):
       ingredients list = [ingredient.strip() for ingredient in
self.ingredients.split(',')]
       num ingredients = len(ingredients list)
       print("Cooking Time:", self.cooking time)
       print("Number of Ingredients:", num ingredients)
       elif self.cooking_time < 10 and num_ingredients >= 4:
           print("Medium")
          print("Hard")
```

```
def save(self, *args, **kwargs):
       self.difficulty = self.calculate_difficulty()
       super().save(*args, **kwargs)
       ingredient list = [ingredient.strip() for ingredient in
self.ingredients.split(',')]
       unique_ingredients = list(set(ingredient_list))
       current master list.extend(new ingredients)
      update master ingredient list(current master list)
```

```
# Save the changes
self.save()

def get_absolute_url(self):
    return reverse("recipes:recipe_detail", kwargs={"pk": self.pk})
```

## Changes:

- I moved cooking time above ingredients because that seemed like it would make more sense to the user to be laid out that way—amount of time is a quick glance display item vs the blob of text the directions and ingredients would be after—semed more user—friendly
- Added "help\_text="In minutes"" param to the cooking time
- Added pic
- Added Ingredient model—I saw it in one of the examples, but I am now wondering if I need it... It now feels very unnecessary to me...
  I might delete it when working on 2.6.
- I added the app "recipe\_ingredients" as an intermediary to manage the many-to-many relationship—the example was set up this way, but I don't think this is necessary in my application, so I might delete—would appreciate feedback on this. I am getting a little confused...

- Added appropriate help text with all text inputs in the recipe
   model
- I included the calculate difficulty function in the recipe model

## Users Model

```
from recipes.models import Recipe

class User(models.Model):
    username = models.CharField(max_length=120)
    saved_recipes = models.ManyToManyField(Recipe,
    related_name='saved_by_users', blank=True)

def __str__(self):
    return self.username
```

- Changes:
  - I think we learn this in 2.6, so I am not sure if this looks right...
- Recipe\_ingredients:
  - I got this idea from an example, but I'm not positive if I'm understanding/executing it right. I made this app to manage the relationship between the user model and the recipe model. To my understanding, it takes ingredients submitted by the user via the create\_recipe template, and adds those ingredients to the ingredients list in the ingredients app. Please provide feedback if I am understanding that correctly, and thus, have it set up correctly.

## • Ingredients:

```
from django.db import models

# Create your models here.

class Ingredient(models.Model):
    name = models.CharField(max_length=225)

def __str__(self):
    return str(self.name)
```