

## Search ideas

Users search for recipes by name (list view of all matching recipes turns up)

Future ideas: search by ingredient, difficulty

## Data Analysis/Chart ideas

This feels super challenging for this task—for a small app that returns one result for each search, I don't think charts are meaningful. If I build out the additional ideas above (search by ingredient or difficulty), charts could be useful. Each chart will be for cooking time

Bar chart: x axis is recipe name, y axis is cooking time

Pie chart: proportion of total cooking time for each recipe

Line chart: same as bar chart

## Test Output

```
● (a2-ve-recipeapp) → src git:(master) ✗ python manage.py test --verbosity 2
Found 20 test(s).
Creating test database for alias 'default' ('file:memorydb_default?mode=memory&cache=shared')...
Operations to perform:
  Synchronize unmigrated apps: messages, staticfiles
  Apply all migrations: admin, auth, contenttypes, recipes, sessions, users
Synchronizing apps without migrations:
  Creating tables...
  Running deferred SQL...
Running migrations:
  Applying contenttypes.0001_initial... OK
  Applying auth.0001_initial... OK
  Applying admin.0001_initial... OK
  Applying admin.0002_logentry_remove_auto_add... OK
  Applying admin.0003_logentry_add_action_flag_choices... OK
  Applying contenttypes.0002_remove_content_type_name... OK
  Applying auth.0002_alter_permission_name_max_length... OK
  Applying auth.0003_alter_user_email_max_length... OK
  Applying auth.0004_alter_user_username_opts... OK
  Applying auth.0005_alter_user_last_login_null... OK
  Applying auth.0006_require_contenttypes_0002... OK
  Applying auth.0007_alter_validators_add_error_messages... OK
  Applying auth.0008_alter_user_username_max_length... OK
  Applying auth.0009_alter_user_last_name_max_length... OK
  Applying auth.0010_alter_group_name_max_length... OK
  Applying auth.0011_update_proxy_permissions... OK
  Applying auth.0012_alter_user_first_name_max_length... OK
  Applying recipes.0001_initial... OK
  Applying recipes.0002_recipe_pic... OK
  Applying recipes.0003_alter_recipe_pic... OK
  Applying recipes.0004_remove_recipe_difficulty... OK
  Applying sessions.0001_initial... OK
  Applying users.0001_initial... OK
  Applying users.0002_alter_user_bio_alter_user_username... OK
  Applying users.0003_user_pic... OK
  Applying users.0004_alter_user_pic... OK
```

```

Applying user10001 after user10001 OK
System check identified no issues (0 silenced).
test_form_invalid_data (recipes.tests.RecipeFormTest) ... ok
test_form_valid_data (recipes.tests.RecipeFormTest) ... ok
test_get_absolute_url (recipes.tests.RecipeModelTest) ... ok
test_recipe_cooking_time (recipes.tests.RecipeModelTest) ... ok
test_recipe_ingredients (recipes.tests.RecipeModelTest) ... ok
test_recipe_ingredients_max_length (recipes.tests.RecipeModelTest) ... ok
test_recipe_name (recipes.tests.RecipeModelTest) ... ok
test_recipe_name_max_length (recipes.tests.RecipeModelTest) ... ok
test_recipe_rating (recipes.tests.RecipeModelTest) ... ok
test_recipe_rating_default (recipes.tests.RecipeModelTest) ... ok
test_recipe_rating_max_length (recipes.tests.RecipeModelTest) ... ok
test_recipe_str (recipes.tests.RecipeModelTest) ... ok
test_user_bio (users.tests.UserModelTest) ... ok
test_user_bio_default (users.tests.UserModelTest) ... ok
test_user_bio_max_length (users.tests.UserModelTest) ... ok
test_user_password (users.tests.UserModelTest) ... ok
test_user_password_max_length (users.tests.UserModelTest) ... ok
test_user_str (users.tests.UserModelTest) ... ok
test_user_username (users.tests.UserModelTest) ... ok
test_user_username_max_length (users.tests.UserModelTest) ... ok

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Ran 20 tests in 0.094s

OK
Destroying test database for alias 'default' ('file:memorydb_default?mode=memory&cache=shared')...

```

## Execution Flow

