LazyGrocer

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The LazyGrocer application will allow a user to create a profile and access recipes, recipe lists, ingredients, and ingredient lists. The user can add recipes to their profile and store them in their own personalized recipe lists. The same can be done with ingredients and ingredient lists. Each recipe contains information such as the rating, date published, instructions, etc. The user can also keep track of their favorite recipes. Each ingredient contains information regarding its inventory and date it was last added. LazyGrocer simplifies and expedites the grocery shopping and cooking processes.

ENTITIES

Instruction: represents individual steps in a recipe

- **Attributes**: cook_time, servings, calories, steps, url
- **Foreign Key**: recipe_title

Recipe

- **Primary Key**: title
- **Attributes**: description, rating, meal_timing, favorite?, date_published
- **Foreign Key**: chef_username

Ingredient

- **Primary Key:** name
- **Attributes:** inventory, last_added

RecipeList

- **Primary Key:** name
- **Attributes:** description

IngredientList

- **Primary Key:** name
- **Attributes:** description

RELATIONSHIPS

for

- **Foreign Keys:** ingredient_list_name, ingredient_name

contains

- **Foreign Keys:** recipe_list_name, recipe_name

includes

- **Foreign Keys:** recipe_name, ingredient_name
- **Attributes:** quantity

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Relationships Between Entities

- Chef → Recipe: A one-to-many relationship labeled "publishes," indicating that one Chef can publish many Recipes, but each Recipe is published by only one Chef.
- Recipe → Instruction: A one-to-many relationship labeled "explains," indicating that one Recipe is explained by multiple Instructions.
- Recipe → Ingredient: A many-to-many relationship labeled "includes," with an associative entity that includes the attribute "quantity." A Recipe includes many Ingredients, each with a specified quantity, and an Ingredient can be included in many Recipes.
- Recipe → RecipeList: A many-to-many relationship indicating that a Recipe can be part of many RecipeLists, and a RecipeList can "contain" many Recipes.
- Ingredient → IngredientList: A many-to-many relationship with the word "for", suggesting that an Ingredient can be part of many IngredientLists, and an IngredientList can contain many Ingredients.

Tech Stack

- Language: python
- Libraries:
    - Tkinter
    - Mysql-connector-python
    - Beautiful Soup
    - Requests
- Database: mysql
- OS: any
- Hardware: any

Why does this project or this data domain interest you?

- One of the difficulties of becoming an adult is learning how to grocery shop and cook on your own. Many young adults resort to eating out or buying frozen meals. This app provides an easy way to organize and store ingredients and recipes to make these processes more approachable. Given that everybody needs to eat, LazyGrocer can benefit anyone and can simplify the lives of "chefs" with any level of cooking experience.

You can find the UML ERD, Class, and Activity diagrams in the diagram folder within the submitted zip file.