iHungry Api Database ER Diagram

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Upc
- id
- upc

0..*

Ingredient
- id
- name
- quantity
- weight

0..*

0..*

User
- id
- name
- email
- password

1..*

UpcToIngredient
- id
- upc_id
- ingredient_id

0..*

IngredientToRecipe
- id
- recipe_id
- ingredient_id

Recipe
- id
- name
- raw_text
- url
- image
- rating
- source

0..*

IngredientToUser
- id
- user_id
- ingredient_id
- quantity_left
- unit
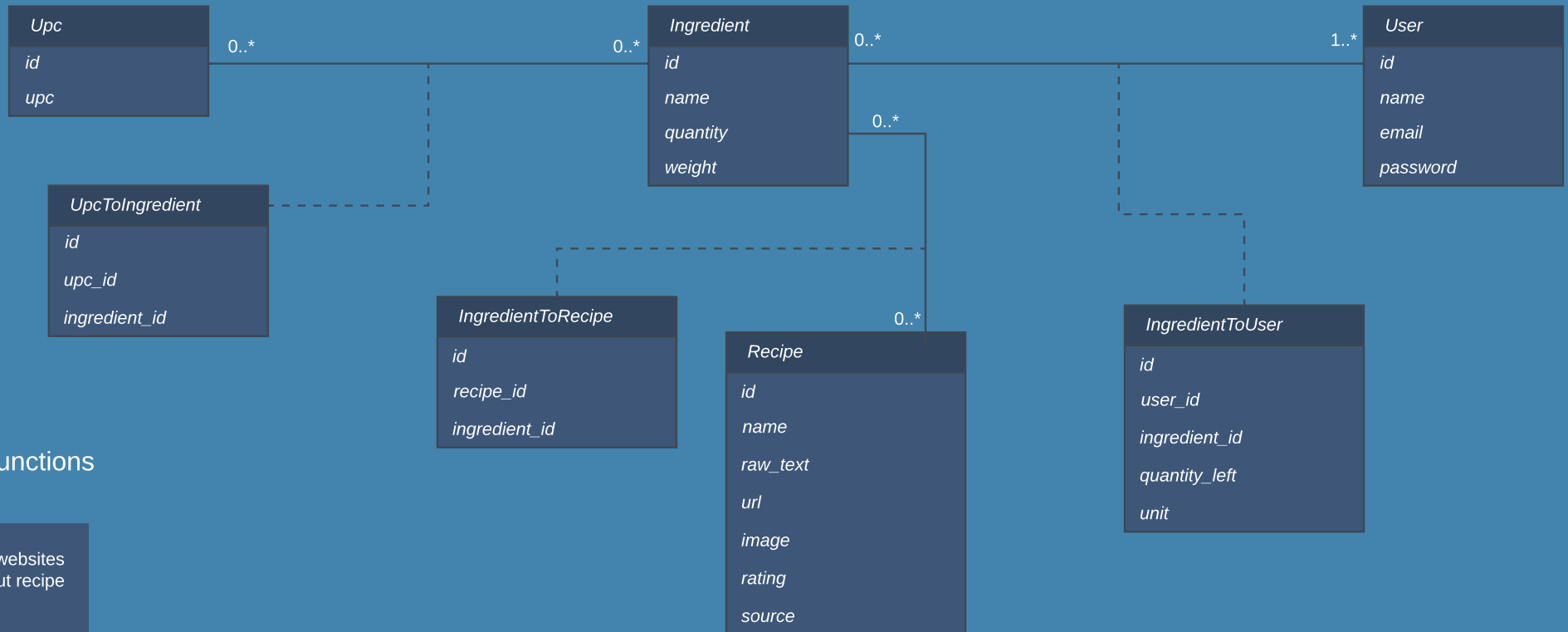
Main functions

Crawl websites to fill out recipe data

User wants list of recipes that use their ingredients

User enters ingredient fields:

Picture of UPC*
UPC Number*
Names for Ingredient*
Quantity Left
Quantity Left Unit
Product Quantity
Product Quantity Unit

* 1 of 3 required, rest optional

Query recipes table for recipes with user's ingredients

If no Spoonacular recipe call Spoonacular's search by ingredient API and store response as a recipe

Display matched recipes to user

Store user entered data

If UPC entered lookup Product Name with multiple UPC APIs/DBs

Store Product Name(s) as IngredientName(s) for the ingredient

Run NLP on Product Name(s) to get ingredient name(s)

Store NLP results as IngredientName(s) for the ingredient