Recipes App

Function - An app that will store recipes that can be created/shared.

Users will have a unique ID/password
Users will be able to create a recipe
Includes instructions and ingredients
Recipes will be public or private
Users will be able to view other user's recipes/profiles
Ingredients can be added to a user's grocery list
Users can create their own occasions and assign recipes to occasions

BRAINSTORMING / Table ideas

Users

ID / Name / Online Alias / Email / Passwords /
~ holds user and profile information

Recipe

ID / user_id / Recipe name / instructions / Time to make / timestamp / private
~holds recipe instructions, when created, privacy etc

Ingredients

ID / name of ingredient / price
~database of all ingredients used across website

Grocery List

ID / user_id / Ingredient_ID / quantity
~list of ingredients needed in recipes

Special Occasion/Special Recipe

ID / name of occasion / date / user
~unique instances of recipes that can be assigned to a certain date

Set many Ingredients to one recipe

ID Recipe_ID Ingredients_ID

RELATIONSHIPS

One-to-many

User to Recipe - unique user has different recipes
User to Grocery List - grocery lists are specific to user, but there can be multiple
Special occasion to Recipe - unique per user but user can have multiple occasions

Many-to-many

Recipe to Ingredients - both overlap
Grocery List to Ingredient - both overlap

One-to-one

User to Password - if we had an authenticator table

Columns

Users

ID (serialPK) / Name (serial) / Online Alias (charvar) / Email (charvar) / Passwords (charvar)

Recipe

ID (serialPK) / user_id (FK) / Recipe name (charvar) / instructions (string(500)) / Time to Make (decimal) / timestamp (timestamp location) / private (BOOL)

Ingredients

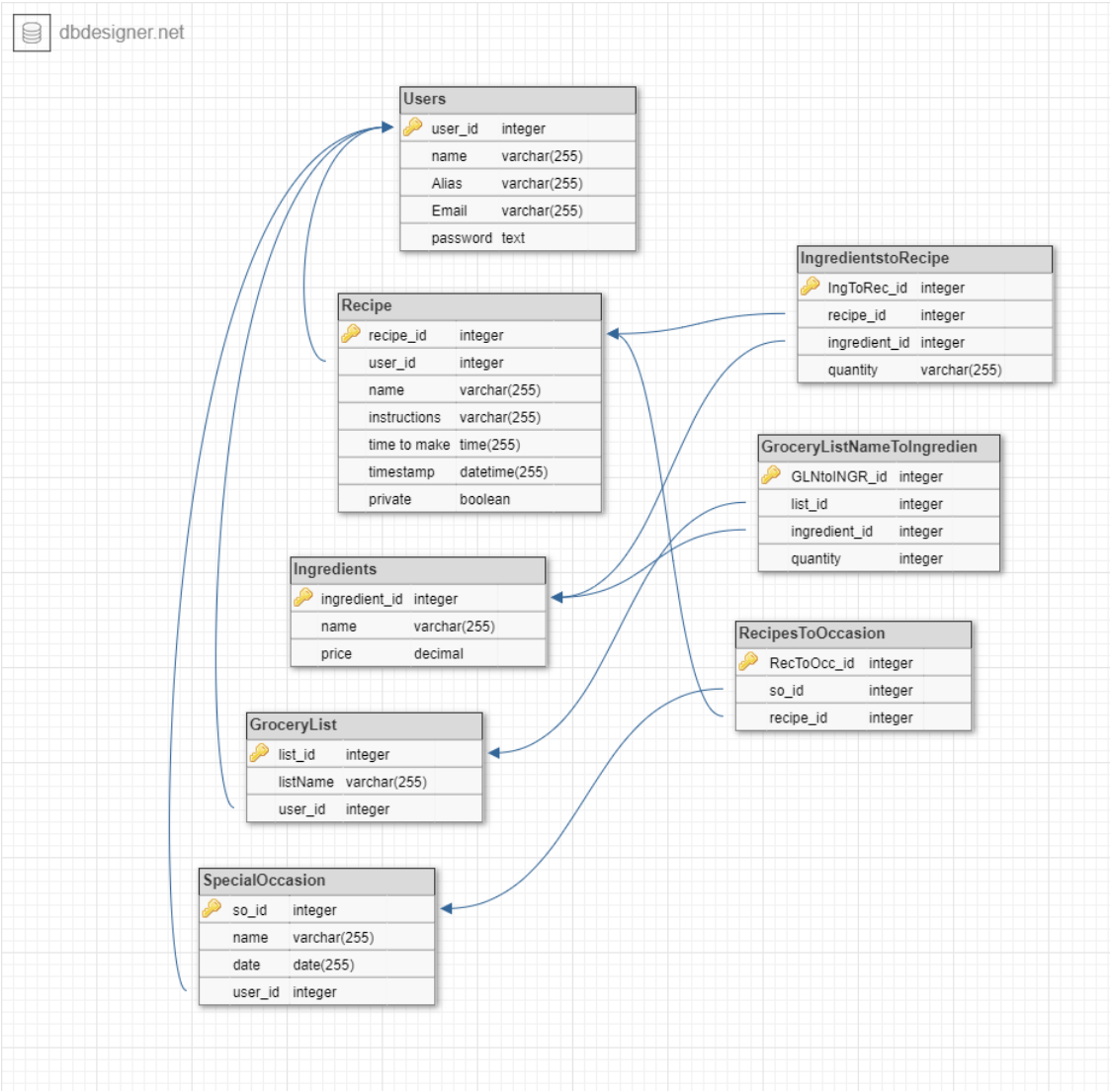
ID (serialPK) / name of ingredient (charvar) / price (decimal)

Grocery List

ID (serialPK) / user_id (FK) / Ingredient_ID (FK) / quantity (INT)

Special Occasion/Special Recipe

ID (serialPK) / name of occasion (charvar) / date (DATE) / user (FK)




```
CREATE TABLE users (
        user_id SERIAL PRIMARY KEY,
  first_name VARCHAR(20),
  last_name VARCHAR(20),
  email VARCHAR(20) UNIQUE,
  password VARCHAR(20)
);

CREATE TABLE recipe (
        recipe_id SERIAL PRIMARY KEY,
        user_id INTEGER NOT NULL REFERENCES users(user_id),
  recipe_name VARCHAR(50),
  instructions VARCHAR(500),
  time_to_make INT,
  timestamp TIMESTAMP,
```

```
  private BOOL
);

CREATE TABLE special_occasion (
  occasion_id SERIAL PRIMARY KEY,
  occasion_name VARCHAR(50),
  occasion_date DATE,
  user_id INTEGER NOT NULL REFERENCES users(user_id),
  recipe_id INTEGER NOT NULL REFERENCES recipe(recipe_id)
 );

 CREATE TABLE grocery_list_name (
   grocery_id SERIAL PRIMARY KEY,
   user_id INTEGER NOT NULL REFERENCES users(user_id),
   list_name VARCHAR(20)
 );

 CREATE TABLE ingredient (
   ingredient_id SERIAL PRIMARY KEY,
   ingredient_name VARCHAR(50),
   price DECIMAL
 );

 CREATE TABLE recipe_ingredients (
   recipe_ingredient_id SERIAL PRIMARY KEY,
   recipe_id INTEGER NOT NULL REFERENCES recipe(recipe_id),
   ingredient_id INTEGER NOT NULL REFERENCES ingredient(ingredient_id),
   quantity INTEGER
 );

 CREATE TABLE grocery_list_ingredients (
   groc_list_id SERIAL PRIMARY KEY,
   grocery_id INTEGER NOT NULL REFERENCES grocery_list_name(grocery_id),
   ingredient_id INTEGER NOT NULL REFERENCES ingredient(ingredient_id),
   quantity INTEGER
 );
```