

Brainstorming

User

- User email
- Password
- User ID

Recipes (parent)

- Recipe id
- User ID
- Cooking instructions id ref
- Ingredients id reference
- Name - VARCHAR
- Privacy setting (public/private)
- Timestamp

Cooking Instructions(child)

- Cooking instructions id
- Text body of instructions

Ingredients (child)

- Ingredient ID
- Name - VARCHAR

Grocery List

- Grocery List ID
- Recipes.ingredients
- User ID ref

Occasions

- Occasion ID?
- Name
- User ID
- Recipe id

Table Ideas

User: This table will hold information for users - email, password, and user ids

Recipes: Holds information for individual recipes

Recipe Instructions: Holds the text for the instructions

Ingredients: holds the info for individual ingredients for recipes

Grocery list: references the recipe list to see what ingredients are needed

Occasions: Holds information for occasion, can add recipes to occasion

Relationships

One-to-one

- *User => grocery list* - Each user can only have one grocery list, and each grocery list is only assigned to one user
- *Recipes => recipe instructions* - Each recipe can only have one set of instructions, each set of instructions can only be assigned to one recipe (can't use the instructions for pie to make a soup)

One-to-many

- *Users => recipes* - Each user can have multiple recipes, but each recipe can only be assigned to one user
- *Users => occasions* - Each user can have multiple occasions, but each occasion can only be assigned to one user

Many-to-many

- *Recipes => ingredients* - One recipe can have many ingredients, but one ingredient can be assigned to multiple recipes

Columns

User:

Email - to associate recipes, lists, and occasions with a specific user.

Pass- so the users information is safe.

User id- to reference the user in another part of the database.

Recipes

Recipe id - unique value for reference.

User ID - associating the recipe back to the user

Cooking instructions id ref - associating the cooking instructions with a recipe.

Ingredients id reference - associating ingredients with the recipe.

Name VARCHAR - name of the recipe

Privacy setting (public/private) - whether the recipe is private or public

Timestamp - showing when the recipe was posted.

Cooking Instructions

Cooking instructions id - unique value for reference.

Text body of instructions - the instructions for the recipe.

Ingredients (child)

Ingredient ID - unique value for reference.

list_of_ingredients VARCHAR - what the name says

Grocery List

Grocery List ID - unique value for reference.

Recipes.ingredients - referencing recipes to add to the grocery list.

User ID ref - associating it with a user.

Occasions

Occasion ID - unique value for reference.

Name - Occasion name

User ID - associating it with a user.

Recipe id - referencing recipes to add to the occasions list

PostgreSQL Export

```
CREATE TABLE "users" (  
  "user_id" SERIAL PRIMARY KEY,  
  "user_email" VARCHAR(40),  
  "user_password" VARCHAR(1000)  
);  
  
CREATE TABLE "recipe_instructions" (  
  "instructions_id" SERIAL PRIMARY KEY,  
  "instructions_body" VARCHAR(1000)  
);  
  
CREATE TABLE "recipe_ingredients" (  
  "ingredients_id" SERIAL PRIMARY KEY,  
  "ingredients_body" VARCHAR(500)  
);  
  
CREATE TABLE "recipes" (  
  "recipe_id" SERIAL PRIMARY KEY,  
  "user_id" INT NOT NULL,  
  "ingredients_id" INT NOT NULL,  
  "instructions_id" INT NOT NULL,  
  "name" VARCHAR(100),  
  "private" BOOL,  
  "recipe_timestamp" timestamp  
);  
  
CREATE TABLE "grocery_list" (  
  "grocery_list_id" SERIAL PRIMARY KEY,  
  "recipe_id" INT,
```

```
    "user_id" INT NOT NULL
);

CREATE TABLE "occasions" (
    "occasion_id" SERIAL PRIMARY KEY,
    "user_id" INT NOT NULL,
    "recipe_id" INT,
    "name" VARCHAR(100)
);

ALTER TABLE "recipes" ADD FOREIGN KEY ("user_id") REFERENCES "users"
("user_id");

ALTER TABLE "recipes" ADD FOREIGN KEY ("ingredients_id") REFERENCES
"recipe_ingredients" ("ingredients_id");

ALTER TABLE "recipes" ADD FOREIGN KEY ("instructions_id") REFERENCES
"recipe_instructions" ("instructions_id");

ALTER TABLE "grocery_list" ADD FOREIGN KEY ("recipe_id") REFERENCES
"recipes" ("recipe_id");

ALTER TABLE "grocery_list" ADD FOREIGN KEY ("user_id") REFERENCES "users"
("user_id");

ALTER TABLE "occasions" ADD FOREIGN KEY ("user_id") REFERENCES "users"
("user_id");

ALTER TABLE "occasions" ADD FOREIGN KEY ("recipe_id") REFERENCES "recipes"
("recipe_id");
```

