Table Ideas

Users
-user id
-username
-email
-password

Recipes
-recipe id
-ingredients text
-instructions
-private or public
-user id
-ingredient id

Ingredients
-ingredients id
-recipe id
-ingredients text

Grocery List
-grocery id
-ingredient id
-user id
-grocery item

Occasion
-occasion id
-occasion text
-recipe id
-User id

UserOccasion
-useroccasion id
-user id
-occasion id

RecipeIngredients
-recipe_ingredient_id
-recipe id
-ingredients id

UsersRecipe

-usersrecipe id
-user id
-recipe id

Relationships:

One-to-one
One-to-Many
User - grocery list
User - ingredients

Many-to-many
User-occasion
Ingredients - recipe
Users - recipe

COLUMNS
Users- will be storing user data
Recipes- a place for users to get recipes and create them
Ingredients- will have a list of ingredients for users to choose from
Grocery List- users, ingredients can be stored and chosen
Occasion - an event for users to bring recipes
UserOccasion - associate column to store occasion and user ids
RecipeIngredients - associate column to store recipes and ingredients together
UsersRecipe - associate column to have users and recipes available to use


```
CREATE TABLE users(
  user_id SERIAL PRIMARY KEY,
  username VARCHAR(30),
  email VARCHAR(100),
  password VARCHAR(1000)
);

CREATE TABLE recipes(
  recipe_id SERIAL PRIMARY KEY,
  ingredients_textcontent VARCHAR(500) NOT NULL REFERENCES
ingredients(ingredients_textcontent),
  instructions TEXT,
  private BOOL,
  user_id INT NOT NULL REFERENCES users(user_id),
  ingredient_id INT NOT NULL REFERENCES ingredients(ingredients_id)
);
```

```sql
CREATE TABLE ingredients(
  ingredients_id SERIAL PRIMARY KEY,
  recipe_id INT NOT NULL REFERENCES recipes(recipe_id),
  ingredients_textcontent VARCHAR(500)
);

CREATE TABLE grocery_list(
  grocery_id SERIAL PRIMARY KEY,
  ingredients_id INT NOT NULL REFERENCES ingredients(ingredients_id),
  user_id INT NOT NULL REFERENCES users(user_id),
  grocery_item VARCHAR(100)
);

CREATE TABLE occasion(
  occasion_id SERIAL PRIMARY KEY,
  occasion_text VARCHAR(500),
  recipe_id INT NOT NULL REFERENCES recipes(recipe_id)
);

CREATE TABLE user_occasion(
  user_occasion_id SERIAL PRIMARY KEY,
  user_id INT NOT NULL REFERENCES users(user_id),
  occasion_id INT NOT NULL REFERENCES occasion(occasion_id)
);

CREATE TABLE recipe_ingredients(
  recipe_ingredients_id SERIAL PRIMARY KEY,
  recipe_id INT NOT NULL REFERENCES recipes(recipe_id),
  ingredients_id INT NOT NULL REFERENCES ingredients(ingredients_id)
);

CREATE TABLE users_recipe(
  users_recipe_id SERIAL PRIMARY KEY,
  user_id INT NOT NULL REFERENCES users(user_id),
  recipe_id INT NOT NULL REFERENCES recipes(recipe_id)
);
```