Table Ideas

Users (Where user inputs their information)

- User_id
- Username
- Password
- Email
- Name
- Birthday
- Gender

Recipe (Where user can create recipe and set them to private or public)

- Recipe_id
- User_id ref
- Username ref
- recipe_name
- Ingredients_id ref
- Ingredients_name ref
- text
- Private boolean

Ingredients (Where a user can list the ingredients and link it to their recipe)

- Ingredients_id
- Ingredients_name ref
- Text

Posts (Where users can share their recipes, can be set to public or private)

- Posts_id
- User_id ref
- Username ref
- Text
- Recipe_id ref
- Recipe_name ref
- grocery_list_id
- Private boolean

Grocery List (Where users can add items from ingredients into their grocery list)

- Grocery_list_id
- Ingredients_id ref
- Ingredients_name ref
- Text

Occasions (Where users can create occasions and corresponding recipes for them)

- Occasions_id
- Recipe_id ref
- Recipe_name ref
- Text

Relationships

One-to-one

- **Occasions** - References recipes for users to use during occasions they create

One-to-many

- **Grocery List** - References ingredients for grocery list and is referenced in posts
- **Ingredients** - References recipe to see items and is referenced in grocery list to add items and in the recipe

Many-to-many

- **Posts** - References user, recipe, and grocery list to display what items the user puts in their recipe and grocery list then displays it
- **Recipe** - References ingredients to know which ingredients to use in the recipe, occasions to know which occasion it aligns with, posts to display recipes, and ingredients to show which ingredients go to which recipe, recipe name is utilitzed throughout the app along with recipe_id

Postgres SQL

```
CREATE TABLE users (
        user_id SERIAL PRIMARY KEY,
  username VARCHAR(50) UNIQUE,
  password VARCHAR(255),
  email VARCHAR(255),
  name VARCHAR(255),
  birthday integer,
  gender VARCHAR(255)
);

CREATE TABLE recipe (
        recipe_id SERIAL PRIMARY KEY,
  user_id INTEGER REFERENCES users(user_id),
  username VARCHAR(50) REFERENCES users(username),
  recipe_name VARCHAR(50) UNIQUE,
  recipe_text text,
  private BOOLEAN UNIQUE
);

CREATE TABLE ingredients (
        ingredients_id SERIAL PRIMARY KEY,
  ingredients_name VARCHAR(1000) UNIQUE,
  ingredients_text VARCHAR(1000) UNIQUE
);

ALTER TABLE recipe
ADD ingredients_id INTEGER;

ALTER TABLE recipe
ADD ingredients_name VARCHAR;

INSERT INTO recipe (ingredients_id, ingredients_name)
VALUES (ingredients(ingredients_id), ingredients(ingredients_name));

CREATE TABLE posts (
  post_id SERIAL PRIMARY KEY,
  user_id INTEGER REFERENCES users(user_id),
  username VARCHAR REFERENCES users(username),
  recipe_id INTEGER REFERENCES recipe(recipe_id),
  recipe_name VARCHAR REFERENCES recipe(recipe_name),
  private BOOLEAN REFERENCES recipe(private)
  );

CREATE TABLE grocery_list (
        grocery_list_id SERIAL PRIMARY KEY,
  ingredients_id INTEGER REFERENCES ingredients(ingredients_id),
  ingredients_name VARCHAR(1000) REFERENCES ingredients(ingredients_name),
  ingredients_text VARCHAR(1000) REFERENCES ingredients(ingredients_text)
);

ALTER TABLE posts
ADD grocery_list_id INTEGER;

INSERT INTO posts (grocery_list_id)
VALUES (grocery_list(grocery_list_id))

CREATE TABLE occasions (
        occasions_id SERIAL PRIMARY KEY,
  recipe_id INTEGER REFERENCES recipe(recipe_id),
  recipe_name VARCHAR REFERENCES recipe(recipe_name),
  occasions_text VARCHAR(1000)
);
```