

- users can sign into the app with their email and password
- users can create recipes with ingredients and instructions
- recipes can be marked as public or private
- users can view other people's recipes
- ingredients from recipes can be added to user's grocery lists
- users can create their own occasions and assign recipes to occasions

Brainstorming

- Users
 - email & password
- Recipes
 - public_view
 - private_view
 - instructions
- Ingredients
 - Ingredient name
- User grocery list
 - shopping_cart
- Occasions
 - Assign recipes

Table Ideas

Users

This table will hold info about the users. Each row will represent a single user.

Recipes

This table will hold Ingredients, instructions, and a Public/ Private view

Ingredients

This table will hold ingredients that will be used in a recipe

users_grocery_list

This table will hold ingredients from recipes

Occasions

This table will hold assigned recipes

Relationships

One-to-One

User -> Username: A user just needs a username to log into the app

User -> Password: A user needs a valid password to log into the app

Recipe - Private_View: A recipe can be visible in a private view

Recipe - Public_View: A recipe can be visible in a public view

One-to-Many

Grocery List <- Ingredients: A grocery list can have many ingredients

Recipes <- Ingredients: A recipe can have many ingredients

Users <-> Occasions: A user can create many occasions

Many-to-Many

Recipes <-> Users: Users can make many recipes and many users can view many different recipes

Recipes <-> Occasions: Many recipes can be assigned to occasions and many occasions can have many recipes

Columns

Users

- Email: varchar(256) We need to keep track of the users email. I chose varchar(256) because that is the maximum possible length of an email.

Groups

This table will hold info about groups. Each row will represent a single group that can be joined by a user

Users_Groups

This table will hold many-to-many relationships between users and groups

Posts

This table will hold posts. Each row will represent a single post made by a single user.

Photos

This table will hold photos. Each row will represent a single photo. Each record will relate to a post.

Posts_Groups

This table will hold posts made to a specific group.

Followers

This table will hold many-to-many relationships between Users and Users.