

- 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

## Brainstorm:

- Password
- Email
- Ingredients
- Instructions
- Recipe private
- Recipe public
- Grocery list
- Create recipe

## Tables:

- User email
  - They need a specific username to access their account
  - VARCHAR to limit from being long
- Password
  - The user needs a special key to get their specific account data
  - VARCHAR to limit from being too long
- Username
  - Another way to sign into their account
  - VARCHAR to limit from being too long

## Recipes:

- Ingredients
  - The table will show the recipes ingredients
  - VARCHAR limit so it will not be so long
- Instructions
  - The table will display the instructions for each recipe
  - VARCHAR to limit from being long
- Link to users
  - Users can have their own recipes
  - REFERENCES to link to other tables
- Recipe name
  - Names of each recipe
  - VARCHAR to limit from names being too long
- Boolean
  - To show if the recipe is public or not

- BOOLEAN to tell whether it is public or not

#### Grocery List:

- Link to user
  - Each user will have a grocery list
  - VARCHAR to limit lengths

#### Ingredient:

- Link to grocery
  - Ingredients will connect with what is on the grocery lists
  - VARCHAR
- Link to user
  - Each user will have specific ingredients

#### Occasions:

- Recipe id
  - Recipes can connect to specific occasions
  - REFERENCES
- User id
  - Users can have specific occasions for recipes
  - REFERENCES
- Occasion name
  - The name of the occasion
  - VARCHAR

#### Relationships:

- One to one
- One to many
  - Users ==> Recipes
    - One user can have many recipes
  - User ==> Occasions
    - One user can create many occasions
  - Grocery list ==> Ingredients
    - One grocery list can have many ingredients
  - Occasions ==> Users
    - One user for many occasions
- Many to many

```
Table "users" {  
  "user_id" int [pk, increment]  
  "user_email" VARCHAR(100)  
  "user_password" VARCHAR(50)  
  "username" VARCHAR(50)  
}
```

```
Table "recipes" {  
  "recipe_id" int [pk, increment]  
  "user_id" INT [not null]  
  "ingredients" VARCHAR(50)  
  "instructions" VARCHAR(1000)  
  "recipe_name" VARCHAR(100)  
  "public_recipe" BOOLEAN [default: true]  
}
```

```
Table "groceries" {  
  "id" int [pk, increment]  
  "user_id" INT [not null]  
  "ingredients" VARCHAR(1000)  
}
```

```
Table "occasions" {  
  "occasions_id" int [pk, increment]  
  "occasions" VARCHAR(100)  
  "user_id" INT [not null]  
}
```

```
Table "occasionsRecipes" {  
  "id" int [pk, increment]  
  "recipe_id" INT [not null]  
  "occasions_id" INT [not null]  
}
```

Ref:"users"."user\_id" < "recipes"."user\_id"

Ref:"users"."user\_id" < "groceries"."user\_id"

Ref:"users"."user\_id" < "occasions"."user\_id"

Ref:"recipes"."recipe\_id" < "occasionsRecipes"."recipe\_id"

Ref:"occasions"."occasions\_id" < "occasionsRecipes"."occasions\_id"

