**Brainstorming**

**Tables:**

1. user (login info)
2. recipe (ingredients and instructions)
3. ingredients (ingredients)
4. grocery list (user, recipe id, ingredients and quantity(from recipe))
5. view (user id, recipe id)
6. occasion(category)

**Table Ideas:**

**users table**

* -user\_id
* -username
* -email
* -password

**recipes table**

* -recipe\_id
* -recipe\_name
* -quantity
* -ingredients
* -instructions
* -is\_public boolean
* -user\_id references

**Ingredients table**

* -ingredient\_id
* -ingredient\_name

**View table**

* -view\_id
* -user\_id references
* -recipe\_id references

**grocery list table**

* -grocery list-id
* -recipe id references
* -user\_id references

**occasion table**

* -occasion\_id
* -occasion\_name
* -user\_id references
* -recipe\_id references

**Relationships:**

**one-to-one:**

* unique grocery list to unique user
* one unique view to unique recipe

**one-to-many:**

* -users - unique users can have access to multiple tables
* -recipes - unique recipe with many ingredients
* -grocery list - unique user with multiple recipes/ingredients

**many-to-many:**

* -occasions - many occasion can be linked to many recipes
* -ingredients - not unique

**Column**

**users table**

* -user\_id – to reference for other tables - serial
* -username – unique login –VARCHAR(30) –limit 30 characters
* -email -to contact them – VARCHAR(50) – so they can list email
* -password – for login – VARCAR(30) – so they can get into the database

**recipes table**

* -recipe\_id – to reference recipe – integer – can be used more than once for all ingredients in recipe
* -recipe\_name – to know what the recipe is – VARCHAR(30) – text name
* -quantity – to know how much of each ingredient to use – VARCHAR(15) – can have # and measurement
* -ingredients – pull from ingredient table VARCHAR(30)
* -instructions – text box – can write out all instrucitons
* -is\_public Boolean – if true display, if false hide
* -user\_id references – who added recipe

**Ingredients table**

* -ingredient\_id – serial – unique identifier
* -ingredient\_name – VARCHAR(30) to type out name

**View table**

* -view\_id – serial – unique id to see how many people have viewed the recipe
* -user\_id references user table – to see who viewed it
* -recipe\_id references recipe table – to see what recipe was viewed

**grocery list table**

* -grocery list \_id –serial - unique id for list
* -recipe id references recipe table – to know which ingredients and quantities to pull
* -user\_id references user table – to know which user the list belongs to

**occasion table**

* -occasion\_id – serial – unique identifier
* -occasion\_name – VARCHAR(30) to text the name
* -user\_id references user table – so user can pull up their occasion list
* -recipe\_id references recipe table – to categorize recipes into specific occasions