Brainstorming
10 mins
Recipe Creating/Sharing and Grocery List App

Features:

- 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

1. Conceptual Planning

Data:

Users:

- Username and Password
- User's Email
- User's Location
- User's Profile

View/Comments:

- User comment on post
- Comment history
- Comment
- Be able to see the post and view comments

Recipes/Posts:

- Time and Date
- Recipe Ideas
- Create recipes
- Recipe Instructions
- Amount of recipe posts
- View other people's posts
- Recipes can be marked as public or private
- Ingredients can be added to user's grocery lists
- Track the ingredients in recipes
- User can assign recipe to occasions
- Events can be created in the app

Grocery List:

- Users can grab ingredients from recipes
- Ingredients

Occasions:

- Add recipes to occasion

2. **Table Ideas**

User Table

- Username and Password
- Email
- Location
- Profile

Comment Table

- Comment history
- User that posted the comment
- Comment content
- Date/time of comment

Recipe Table

- User who posts
- Ingredients
- Instructions
- Marked public/private

Grocery List Table

- Users can add ingredients from recipes
- Write down ingredients
- Track pulling from recipe table
- Users can view other people's posts

Occasions Table

- Keep track of user who created an occasions event
- Users can view other people's occasions
- Users can assign recipes to a new occasion

UserOccasions Table:

- User id
- Occasion id

Public Table:

- Recipe id
- Public or private

3. **Relationships**

- One to one
  - Username ===> Grocery List
- One to many
  - Comment ===> Recipe Post
  - User ===> Post
  - Post ===> Occasions
- Many to many

- Users ===> Recipes

Columns

User_id needs a user id. Chose serial primary key to create a unique id.

User_name - easy way to identify user.

Varchar - to limit number of characters.

User_email - used to log in to the app.

User_password - used to log in and verify user.

User_location - used to see local shoppers/recipe creators.

User_profile - provide additional info about user.

Recipe_id - used to create a an id.

Recipe_post - used so the user can post.

Recipe_ingredients - used ingredients so that the user can add ingredients to recipe post.

Recipe_instructions - used instructions so that user can add instructions to their recipe.

Recipe_public - used so that the user can choose the post can be public or private. (Boolean)

Comment_id - used so that the user can comment on other posts and ask questions about recipes.

Grocerylist_ingredients - used so the user can add ingredients from recipes or manually.

Comment_user - used so the user can write text.

Comment_content - so that the user can see the content of the comment.

Comment_timestamp - so the user can see when the comment was made date/time.

Grocerylist_id - used so the user can see the grocery list.

Occasion_id - used so the user can access occasion events.

Useroccasion_id - so the user can create their own recipes and add to occasions.

```sql
CREATE TABLE users (
 user_id SERIAL PRIMARY KEY,
 user_name VARCHAR(50),
 user_email VARCHAR(100),
 user_password VARCHAR(500),
 user_location VARCHAR(50),
 user_profile VARCHAR(1000)
);

CREATE TABLE recipes (
 recipe_id SERIAL PRIMARY KEY,
 user_id INT NOT NULL REFERENCES users(user_id),
 recipe_post TEXT,
 recipe_ingredients TEXT,
 recipe_instructions TEXT,
 recipe_public BOOLEAN
);

CREATE TABLE comments (
 comment_id SERIAL PRIMARY KEY,
 recipe_id INT NOT NULL REFERENCES recipes(recipe_id),
 user_id INT NOT NULL REFERENCES users(user_id),
 comment_user TEXT,
 comment_content TEXT,
 comment_timestamp TIMESTAMP
);

CREATE TABLE groceries (
 groocerylist_id SERIAL PRIMARY KEY,
```

```
 recipe_id INT NOT NULL REFERENCES recipes(recipe_id),
 user_id INT NOT NULL REFERENCES users(user_id),
 grocerylist_ingredients TEXT
);

CREATE TABLE occasions (
 occasion_id SERIAL PRIMARY KEY,
 recipe_id INT NOT NULL REFERENCES recipes(recipe_id),
 user_id INT NOT NULL REFERENCES users(user_id),
 comment_id INT NOT NULL REFERENCES comments(comment_id),
 occasion_post TEXT
);

CREATE TABLE user_occasions (
 useroccasion_id SERIAL PRIMARY KEY,
 user_id INT NOT NULL REFERENCES users(user_id),
 occasion_id INT NOT NULL REFERENCES users(user_id)
);

CREATE TABLE publics (
 public_id SERIAL PRIMARY KEY,
 recipe_id INT NOT NULL REFERENCES recipes(recipe_id),
 occasion_id INT NOT NULL REFERENCES occasions(occasion_id),
 recipe_public BOOLEAN
);
```