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

BRAINSTORMING:

- users can sign into the app with their email and password
    - User information
        - Email
        - Password
- users can create recipes with ingredients and instructions
    - Post recipe instructions
    - Post author
    - Video URL
    - Image URL
    - List ingredients
    - Product URL
- recipes can be marked as public or private
    - Post recipe settings
    - Post in group or public forum
- users can view other people's recipes
    - Post in public forum
    - Comment on post
- ingredients from recipes can be added to user's grocery lists
    - Product URL
    - Post Ingredients
    - Add all products in recipe to grocery list
- users can create their own occasions and assign recipes to occasions
    - Separate recipes based on occasions.

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TABLE IDEAS:

- Users
  - Holds information about our users personal and login information
- Auth
  - Holds information about user's login details
    - Email, password
- Post
  - Hold information related to who wrote the post, information about the post itself(text,date/time,any image URL, any video URL, any product URL,total cost of recipe ingredients)
- Comment
  - Hold information about who wrote the comment, which post the comment is for, the body/text of the comment, date/time of the comment, recipe review.
- Friends
  - Stores who is friends whom
    - Friends can make suggestions/edit ingredients
    - Potluck meetup to mash and share recipe ideas
- Stores
  - Stores information about grocery stores within app
    - Pick up/delivery options
    - Discount options
    - Hours
    - Location
- Products
  - Store information about the products needed for recipes
    - Store information about the products in grocery stores
    - In Store/Out of Stock
      - Low Stock

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RELATIONSHIP:

One-to-one:

- Auth to Users
    - Auth table and User table because the user’s information is specific to each individual user.

One-to-many:

- Comments to User
    - Because many others can comment on one user's recipe
- Post to Users
    - Because users can post multiple times.
- Friends to Users
    - Because each use can have multiple friends

Many-to-many:

- Stores to Users
    - Because there are multiple stores available to the users.
- Products to Users
    - Because there are multiple products available to the users.

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COLUMNS:

- Users
    - User_id (need to know who the person is)
        - Data type: int: because it will be an id number.
    - Age (need to know users age)
        - Data Type: int: because it is a number
    - Location (need to know users location for store availability)
        - Data type: varchar because each users location is different and can vary.
- Auth
    - auth_id(need to know if the user is the person they say they are)
        - DT: INT because it is a number that doesn't change.
    - email(need to know the users email for login information)
        - DT: Varchar because everyone will have a unique email for their login information.
    - password(need to know the users password for login information.
        - DT: Text - because passwords can be anything.
    - user_id(need to match auth_id to access account)
        - DT: Specific to the use.
- Post
    - post_id(need to know info about post)
        - DT: INT because each post will be different
    - user_id(need to know who is posting)
        - DT: INT because it is specific to the user
    - recipe_id(need to know information about the recipes posted)
        - DT: varchar because each recipe will range in length of information provided.
    - text(need to know the text written about the recipe/post)
        - DT varchar because each post will range in length.

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    - image_url(need to know where image came from)
        - DT: Varchar because urls can vary in length.
    - video_url(need to know where to find posted video)
        - DT: Varchar because urls can vary in length.
    - product_url(need to know where to find the product)
        - DT: Varchar because urls can vary in length.
    - date_and_time(need to know when it was posted
        - DT: timestamp- because we are wanting to know when the post was posted.
    - comment_id(need to know who commented on the post)
        - DT: int because each comment id is specific to each user.
- Comment
    - comment_id(need to know who commented on the post)
        - DT: int because each comment id is specific to each user.
    - User_id (need to know who the person is)
        - Data type: int: because it will be an id number.
    - post_id(need to know info about post)
        - DT: INT because each post will be different
    - text(need to know the text written about the recipe/post)
            - DT varchar because each comment will range in length.
- Friends
    - friends_id(need to know who the friend is
        - DT: Int because each friend has a unique id.
    - friends_user_id(need to know what the friends user id is)
        - DT: INT: because each friend has a specific user id.
- Products
    - products_id(need to know specific information about products)
        - DT: INT: because each product has a unique id.
    - recipe_id(need to know information about the recipes posted)
        - DT: varchar because each recipe will range in length of information provided.
    - store_id(need to know specific information about store near user(location, low stock, in stock, hours)
        - DT:INT: because each store will have different information

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- Stores
    - store_id(need to know specific information about store near user(location, low stock, in stock, hours)
        - DT:INT: because each store will have different information
    - friends_id(need to know who the friend is
        - DT: Int because each friend has a unique id.

PART 3:

USER TABLE:

```
CREATE TABLE user (
user_id SERIAL PRIMARY KEY,
age INT,
Location VARCHAR(50)
);

CREATE TABLE auth (
auth_id SERIAL PRIMARY KEY,
email VARCHAR(50),
password TEXT,
user_id INT
);

CREATE TABLE post (
post_id SERIAL PRIMARY KEY,
user_id INT,
recipe_id VARCHAR(5000),
Post_text VARCHAR(200),
Image_url VARCHAR(500),
Video_url VARCHAR(500),
Product_url VARCHAR(500),
Date_and_time TIMSTAMP,
Comment_id INT,
user_id INT
```

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```
);

CREATE TABLE comment (
comment_id SERIAL PRIMARY KEY,
user_id INT,
post_id INT,
comment_text VARCHAR(30)
);

CREATE TABLE friends (
friends_id SERIAL PRIMARY KEY,
friends_user_id INT
);

CREATE TABLE products (
product_id SERIAL PRIMARY KEY,
recipe_id VARCHAR(5000),
store_id INT
);

CREATE TABLE store (
store_id SERIAL PRIMARY KEY,
friends_id INT
);
```