Brainstorming:

- Users can sign into the app with their email and password
- Users can create/update/delete profile
- Users can create/share recipes with ingredients and instructions
- Users can create grocery lists
- Users can create occasions and assign recipes to them
- Users can add friends/follows to see other's recipes
- Users can create groups to share recipes in

Tables

- User: this table contains user information
- Auth: this contains user credentials for logging in
- Recipe: this table holds details about individual recipes
- Comment: this table holds information about user comments on specific recipe pages
- Ingredients: This table contains a list of ingredients
- Grocery list: this table contains list of items on a user's grocery list
- Occasions: contains information about each occasion
- friends/follows: contains information about who follows who
- Group: contains information about each group
- Group_comment: this table contains user comments within a group
- Group_recipe: this table contains details about individual recipes within a group

Relationships

- One to one
    - User to auth
- One to many
    - User to recipe
    - User to grocery list
    - Group to group_comment
    - Group to group_recipe
- Many to many
    - User to comment, recipe to comment
    - Recipe to ingredients
    - Users to friends/follows
    - Users to group
    - Occasions to recipe

Columns

- Follows
    - Follow_id - unique identifier for all following actions; integer allows for automatic auto incrementation
    - Follower - indicates which user will be following another user; varchar(255) to match username form user table

    - Following - indicates which user will be followed by another user; varchar(255) to match username form user table
- User
    - User_id - unique identifier for all users; integer allows for automatic auto incrementation
    - Username - indicates unique identifier for all user; varchar(255) to allow a character limit for the username
    - First_name - identifies personal information about a user; varchar(255) to limit the about characters in a first name.
    - Last_name - identifies personal information about a user; varchar(255) to limit the about characters in a first name.
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- Recipe
    - Recipe_id - unique identifier for all recipes; integer allows for automatic auto incrementation
    - Instructions - describes the instructions to complete recipe; text to allow a large amount of characters to describe the recipe process which varies depending on the recipe.
    - Img_url - details the image address to display the respective picture for the recipe; text variable allows for large lengths of characters which image urls can vary in great size
    - User_id - identifies the creator of the recipe; integer to match user table as it is a foreign key
    - Is_public: using a boolean to determine whether the post is public by allowing a true or false value
- Ingredients
    - Ingredient_id - unique identifier for all ingredients; integer allows for automatic auto incrementation
    - Name - description of the ingredient item; text to allow for a varied length of characters for the specified item
    - Img_url - details the image address to display the respective picture for the ingredient; text variable allows for large lengths of characters which image urls can vary in great size
    - Ingredient_price - indicates the cost of the ingredient item; float to mimic currency systems that consist of fractions of whole dollars.
    - Recipe_id - identifies the associated recipe that the ingredient belongs. integer to match recipe table as it is a foreign key
- Comment
    - Comment_id - unique identifier for all comments posts; integer allows for automatic auto incrementation
    - Body - content of the comment that is posted using text variable to allow for varied lengths of characters which could be great lengths
    - User_id - identifies the originator of the comment post; integer to match user table as it is a foreign key

    - Recipe_id - identifies the associated recipe that the comment resides. integer to match recipe table as it is a foreign key
- Auth
    - Auth_id: unique identifier for authorization information using an integer allowing for auto incrementation
    - User_id: connecting to the user using their integer id value in order to keep track of what user the information belongs to using foreign key
    - Username: varchar to apply a limit to length of how long the username text can be
    - Password: varchar to apply a limit to the length of user's password
- Group_recipe
    - Group_recipe_id: unique identifier for recipes within a group, kept track of using an auto incrementing integer
    - Group_id: connects the recipe to the specific group using foreign key integer id value
    - Recipe_poster: integer that represents the id of the user who posted the recipe
    - Img_url: text that allows the user to submit the url of whatever length/characters that are needed in order to share a recipe photo to the group
    - Instructions: text allowing for variance in instruction text length needed by the user
    - Is_public: using a boolean to determine whether the post is public by allowing a true or false value
- Group_users
    - Group_users_id: unique identifier to keep track of group_users using an integer
    - Group_id: connecting to the group table to keep track of what group users are in using an integer foreign key value
    - User_id: using integer value to connect users and groups and keep track of what users and in what group using foreign key
- Group_comment
    - Group_comment_id: unique identifier to keep track of comments within a group using an integer
    - Group_id: connecting the group table using their integer id to keep track of what group a comment belongs to using a foreign key
    - Group_users_id: using foreign key integer value to connect to the group_users table using their integer id that keeps track of what users are within a certain group and thus who sees those comments within the group
    - Body: text that keeps track of the content of the comment
- Group
    - Group_id: integer to keep track of groups with auto incrementing identifier
- Occasions
    - Occasion_id: unique identifier for each occasion that auto increments using integers
    - Occasion_name: text string to save the name of each occasion

    - Recipe_id: connecting to recipe table to determine what recipes link to what occasions using their integer foreign key id
- Grocery_list
    - Grocery_list_id: unique identifier for each list that auto increments which will be an integer
    - Ingredient_id: connecting to ingredients table to receive item information which uses foreign key integer id from ingredient table
    - User_id: connecting to user table to determine what user the grocery list belongs to using integer foreign key user id