DATA MODELING FOR A RECIPE APP

Brainstorming

- User
    - user name
    - User password
    - User email
    - User info

- Recipe info
    - Ingredients
    - Instructions
    - Equipment or tools
    - Public or private
    - Gluten free
    - Vegan
    - Recipe pictures

- Comments/feeback
    - who comments
    - comments

- Grocery list
    - Food items
    - Food prices
    - Type of store

- Occasions
    - Recipe info table
    - Occasions
    - favorites recipes

- Sharing
    - Social media posts

TABLES

User table:
- user_id
- user_name
- user_email
- user_password
- User_info

This data was chosen because these are the basic elements that you would need for a data user profile

Recipe table:
- recipe_id
- ingredients
- instructions
- equipment_needed
- public or private Boolean
- recipe_img
- gluten free Boolean
- vegan boolean

These are all the things that would be needed to construct a recipe broken up into the parts needed.

Comments table:
- comments
- comments_feedback
- recipe_id

This is the basic breakdown of what data you would need from a comments section.

Grocery list:
- grocery_id
- food_items
- prices
- type_of_store

All the points needed for a grocery list table are here. You can group them together to figure out what and where to buy your ingredients.

Ocasssions
- Recipe info
- Occasions
- favorite_recipes

Relationships:

-One to one
- user table to private recipe table:
- recipe table to comments table
- user to grocery list
- recipe to grocery list

- One to many
- user table to public recipes
- User to occasions

- Many to many
- Group to occasions


```
CREATE TABLE user (
user_id SERIAL PRIMARY KEY,
user_password VARCHAR(30),
user_email VARCHAR(50),
user_info
)


CREATE TABLE recipes (
recipe_id SERIAL PRIMARY KEY,
Recipe_name VARCHAR(100),
ingredients VARCHAR(5000),
instructions VARCHAR(5000),
equipment_needed VARCHAR(300),
```

```sql
public BOOLEAN,
recipe_img TEXT,
gluten_free BOOLEAN,
vegan BOOLEAN
)

CREATE TABLE comments (
comment_id SERIAL PRIMARY KEY,
user_id INTEGER REFERENCES user(user_id),
comment_content TEXT
);


CREATE TABLE grocery_list (
grocery_id SERIAL PRIMARY KEY,
recipe_id INT REFERENCES recipes(recipe_id),
food_items TEXT,
prices NUMERIC(8, 2),
type_of_store VARCHAR(50)
);

CREATE TABLE occasions (
recipe_info VARCHAR(100),
occasions VARCHAR(50),
favorite_recipes BOOLEAN
);
```

user

user_id	int
user_password	VARCHAR(30)
user_email	VARCHAR(50)
user_info	VARCHAR(1000)

occasions

recipe_info	VARCHAR(100)
occasions	VARCHAR(50)
favorite_recipes	BOOLEAN

grocery_list

grocery_id	int
recipe_id	INT
food_items	TEXT
prices	NUMERIC(8, 2)
type_of_store	VARCHAR(50)

recipes

recipe_id	int
ingredients	VARCHAR(5000)
instructions	VARCHAR(5000)
equipment_needed	VARCHAR(300)
public	BOOLEAN
recipe_img	TEXT
gluten_free	BOOLEAN
vegan	BOOLEAN

comments

comment_id	int
user_id	INTEGER
comment_content	TEXT

Inserting into table

INSERT INTO recipes (ingredients, instructions, equipment_needed, public, gluten_free, vegan)
VALUES ('bread, peanut butter, jelly', 'spread pb and jelly on bread', 'butter knife', True, False, True);

SELECT * FROM recipes;