### **Summary**

We want to create a recipe creating/sharing and grocery list app. You’ll be planning out what tables we’ll need, what information they’ll store, and how the data will relate to each other.

### **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

## **Part 1: Conceptual Planning - Word/Google/Pages Doc**

### **Brainstorming**

* Take 10 minutes individually and brainstorm all the different things you might need to keep track of for this app.
* Don’t worry if you repeat something or if it seems dumb as soon as you think it – **write it**
* **down anyway**.
* Walk through some different user flows to help you think of all the data they might come across. You could also quickly sketch out some different views of the app and figure out what data would be needed for each view.
* Email, password for each user
* recipes
* Grocery lists
* Occasions
* View counts, or user interactivity i.e. comments
* Reviews, likes, or scoring metrics
* Ingredients, categorization or keywords for filters like vegan, vegetarian, gluten-free etc
* Recipe grouping, meal type, breakfast, appetizer, beverage, etc
* User rankings, or top recipe authors. Highest reviews.
* User ID and password
* Contact info for sharing (phone #, email, social media)
* Name, recipes created and recipes saved.
* Favorites list (recipes, food type, chefs)
* Ingredients table for adding, sharing and buying?
* Occasions and what foods would be appropriate for occasions.
* Private list and public list
* Instructions with each recipe.
* User ID, Password and email.
* Recipes - names, ingredients, instructions, recipe id? Categories? Ingredient filters?
* Grocery lists- names, quantities, which recipe is linked to?
* Occasions? Names, dates?locations? Recipes?
* Public versus private? A private table? And a public table? Filtered by public/private null?
* How do you view other people's ingredients? Add ingredients to the grocery list?
* A search bar for other recipes? Or a scroll section?
* User ID, email, password
* Grocery List
* Recipe List
* Ingredient List
* Occasion List
* Favorites List

### **Table Ideas**

* User ID, email, password, username? Social media link, profile pic, phone number, user id primary serial
* Grocery List Fields, quantity, name, category-fruit/dairy etc.
* Recipe Fields- Bool -T/F private/Public, Serial Primary Key ID, Name, avg. time, favorite, chef, category
* Ingredient Fields, -foodtype category, quantity, name, primary-id, reference
* Occasion Fields- event category, holiday category, id, reference

### **Relationships among data**

* Title this section “Relationships” and create 3 sub-sections as well – “one-to-one”, “one-to-many”, and “many-to-many”.
* In each subsection, list the tables that have that relationship **and explain why you chose that relationship.**
* For example, let’s say I’m planning an ecommerce app. In the one-to-many section, I could have: “products table and review table because each product can have multiple reviews, but a review is only for one specific product”.
* Note: remember tables can relate to multiple other tables. In the product/reviews example above, reviews would also have a relationship with a users table. And product could be related to a cart table. There could be others as well.

**One-to-One**

* Keyword Filter(dietary restr) to Recipes: dietary restriction table contains boolean values for various categories like vegan, gluten-free, etc. This table only links to the recipes table, showing if a recipe is true for any of these fields.
* Occasions to Recipes: occasions will only link to recipe table

**One-to-Many**

* User user\_id- username or user id primary serial
* Recipe recipe\_id to grocery list, to keyword filter to instructions, to ingredients, to occasions?
* Ingredients to grocery?
* Ingredients to keywords?

**Many-to-Many**

**Recipes field - >**

### **Add additional tables**

* Grocery List Fields, quantity, name, category-fruit/dairy etc.
* Recipe Fields- Bool -T/F private/Public, Serial Primary Key ID, Name, avg. time, favorite, chef, category,Ingredient Fields, -foodtype category, quantity, name, primary-id, reference
* Occasion Fields- event category, holiday category, id, reference
* Favorites List .
* Keyword/restrictions fields - category text,
* Now that you know what relationships you’ll have, go back to your “Table Ideas” and **in a different text color** add in any additional tables and their descriptions that you’ll need.

## **Submit To GitHub**

Save your document as a PDF. Export your database diagram as a PDF. Create a repo for them on GitHub and upload both documents.

CREATE TABLE site\_user (

user\_id serial PRIMARY KEY,

email varchar(40) NOT NULL UNIQUE,

password varchar(40) NOT NULL);

CREATE TABLE recipe

(recipe\_id SERIAL PRIMARY KEY,

user\_id int REFERENCES site\_user(user\_id),

name varchar(40) NOT NULL,

instructions TEXT NOT NULL,

private bool NOT NULL,

food\_category varchar(40),

prep\_time\_minutes int,

cook\_time\_minutes int);

CREATE TABLE ingredients (

ingredients\_id serial PRIMARY KEY,

name varchar(40) NOT NULL,

pyramid\_category varchar(40) NOT NULL

);

CREATE TABLE grocery (

grocery\_id serial PRIMARY KEY,

user\_id int REFERENCES site\_user(user\_id),

title varchar(40));

CREATE TABLE occassion (

occassion\_id serial PRIMARY KEY,

meal\_time varchar(40),

holiday varchar(40),

name varchar(40) NOT NULL);

CREATE TABLE restrictions (

restrictions\_id serial PRIMARY KEY,

name varchar(40) NOT NULL);

CREATE TABLE grocery\_ingredients (

grocery\_ingedients serial PRIMARY KEY,

grocery\_id int REFERENCES grocery(grocery\_id),

ingredients\_id int REFERENCES ingredients(ingredients\_id),

quantity int NOT NULL);

CREATE TABLE recipe\_restrictions (

recipe\_restrictions serial PRIMARY KEY,

restrictions\_id int REFERENCES restrictions(restrictions\_id),

recipe\_id int REFERENCES recipe(recipe\_id),

restrict\_bool bool);

CREATE TABLE recipe\_occassion (

recipe\_occassion\_id serial PRIMARY KEY,

recipe\_id int REFERENCES recipe(recipe\_id),

occassion\_id int REFERENCES occassion(occassion\_id));

INSERT INTO site\_user (email,password)

VALUES

('foodforyou@foodie.com','beleiveinf8'),

('papamia@meatballs.com','m3atballs')

insert into recipe (user\_id, name, instructions,private, food\_category, prep\_time\_minutes, cook\_time\_minutes)

values (2,'spaghetti','boil water, add noodles, remove when soft, add sauce, enjoy',true,'entre',5,8);