# Scenario

# Summary

Create a 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

# Part 1: Conceptual Planning

# Brainstorming

Keep track of user data:

name, email, PW

"My recipes section" user space for his own recipes

Keep track of recipes:

Who created them?

Ingredients Instructions, public or private?

Keep track of grocery lists:

Who created them?

contents (ingredients)

Keep track of occasion

Who created them?

the recipes that will be assigned

Keep track of user commonality:

What each user's grocery list has in common with each other.

Give the user the ability to share favorite recipes with each other.

"Chef's like me" section. Place to check common things that users share with each other.

# Table Ideas

Users: this table will hold the basic data of the user.

**Authentication:** holds each user's auth dat (email, password)

**Recipe:** holds all recipes information such as instructions and ingredients needed, & the author

of the recipe.

Grocery list: holds all the info for a specific user grocery list

**Occasion**: this will hold info for an occasion created by a user like name and recipes assigned. **Assigned\_recipe**: this will hold the information to properly reference all the assigned recipes to an occasion

# Relationships

#### One-to-one

 Users-Authentication: authentication works as an extension of the user table providing access to auth. data like email and password

## One-to-many

- Users-recipes: references the recipe author
- Users-occasion: references a specific occasion with its user
- Users-grocery list: references a specific grocery list to its user

### Many-to-many

Occasion-recipes: references an occasion with the recipes assigned to it

# Part 2: Table Planning

# Columns

#### **USERS**

FIELD NAME	DATA TYPE	EXPLANATION
user_id	int / serial PK	Unique identifier for a user, needs to be a serialized integer number.
name	varchar(255)	Holds the name of a user.

#### **AUTHENTICATION**

FIELD NAME	DATA TYPE	EXPLANATION
auth_id		Unique identifier for an authentication record, needs to be a serialized integer number.

FIELD NAME	DATA TYPE	EXPLANATION
user_id	int / FK	Unique identifier for a user, needs to be a serialized integer number.
email	varchar(1000) UNIQUE	Holds the email of a user, this will become the user name of the user.
password	varchar(50)	Holds the password of a user. Password constraints checked in the backend

## **RECIPE**

FIELD NAME	DATA TYPE	EXPLANATION
recipe_id	int / serial PK	Unique identifier for a recipe, needs to be a serialized integer number.
user_id	int / FK	Unique identifier for a user that created the recipe, needs to be a serialized integer number.
name	varchar(255)	Holds the recipe's name
ingredients	text	Holds the recipe's list of ingredients
instructions	text	Holds the recipe's list of ingredients
is_private	bool	Indicates if the recipe should be considered private or public

# GROCERY\_LIST

FIELD NAME	DATA TYPE	EXPLANATION
list_id	int / serial PK	Unique identifier for a grocery list, needs to be a serialized integer number.
user_id	int / FK	Unique identifier for the user who created the list, needs to be a serialized integer number.
items	text	Holds the grocery list body

## **OCCASION**

FIELD NAME	DATA TYPE	EXPLANATION
occassion_id	int / serial PK	Unique identifier for an occasion, needs to be a serialized integer number.
user_id	int / FK	Unique identifier for the user who created the occasion event, needs to be a serialized integer number.
name	varchar(225)	Holds the name of the occasion event

# ASSIGNED\_RECIPE

FIELD NAME	DATA TYPE	EXPLANATION
ar_id	int / serial PK	Unique identifier for a user, needs to be a serialized integer number.
occassion_id	int / FK	Unique identifier for an occasion, needs to be a serialized integer number.
recipe_id	int / FK	Unique identifier for a recipe, needs to be a serialized integer number.

# Part 3: SQL Statements

### -- CREATE TABLES & SET PRIMARY & FOREIGN KEYS CONSTRAINS

```
CREATE TABLE USERS (
          "USER ID" SERIAL NOT NULL,
          "NAME" VARCHAR(255) NOT NULL,
          CONSTRAINT "USERS PK" PRIMARY KEY ("USER ID")
) WITH (
OIDS=FALSE
CREATE TABLE AUTHENTICATION (
          "AUTH ID" SERIAL NOT NULL,
          "EMAIL" VARCHAR(1000) NOT NULL UNIQUE,
          "PASSWORD" VARCHAR(50) NOT NULL,
          "USER_ID" INT NOT NULL,
          CONSTRAINT "AUTHENTICATION_PK" PRIMARY KEY ("AUTH_ID")
) WITH (
 OIDS=FALSE
);
CREATE TABLE GROCERY_LIST (
          "LIST ID" SERIAL NOT NULL,
          "USER ID" INT NOT NULL,
          "ITEMS" TEXT NOT NULL,
          CONSTRAINT "GROCERY_LIST_PK" PRIMARY KEY ("LIST_ID")
) WITH (
 OIDS=FALSE
);
CREATE TABLE RECIPE (
          "RECIPE ID" SERIAL NOT NULL,
          "NAME" VARCHAR(255) NOT NULL,
          "INGREDIENTS" TEXT NOT NULL,
          "INSTRUCTIONS" TEXT NOT NULL,
          "IS PRIVATE" BOOL NOT NULL DEFAULT 'FALSE',
          "USER ID" INT NOT NULL,
          CONSTRAINT "RECIPE_PK" PRIMARY KEY ("RECIPE_ID")
) WITH (
 OIDS=FALSE
CREATE TABLE OCCASION (
          "OCCASION_ID" SERIAL NOT NULL,
          "USER ID" INT NOT NULL,
          "NAME" VARCHAR(255) NOT NULL,
          CONSTRAINT "OCCASION_PK" PRIMARY KEY ("OCCASION_ID")
) WITH (
 OIDS=FALSE
CREATE TABLE ASSIGNED RECIPE (
```

```
"AR_ID" SERIAL NOT NULL,

"OCCASION_ID" INT NOT NULL,

"RECIPE_ID" INT NOT NULL,

CONSTRAINT "ASSIGNED_RECIPE_PK" PRIMARY KEY ("AR_ID")
) WITH (
OIDS=FALSE
):
```

ALTER TABLE "AUTHENTICATION" ADD CONSTRAINT "AUTHENTICATION\_FK0" FOREIGN KEY ("USER ID") REFERENCES "USERS"("USER ID");

ALTER TABLE "GROCERY\_LIST" ADD CONSTRAINT "GROCERY\_LIST\_FK0" FOREIGN KEY ("USER ID") REFERENCES "USERS"("USER ID");

ALTER TABLE "RECIPE" ADD CONSTRAINT "RECIPE\_FK0" FOREIGN KEY ("USER\_ID") REFERENCES "USERS"("USER\_ID");

ALTER TABLE "OCCASION" ADD CONSTRAINT "OCCASION\_FK0" FOREIGN KEY ("USER\_ID") REFERENCES "USERS" ("USER\_ID");

ALTER TABLE "ASSIGNED\_RECIPE" ADD CONSTRAINT "ASSIGNED\_RECIPE\_FK0" FOREIGN KEY ("OCCASION ID") REFERENCES "OCCASION" ("OCCASION ID");

ALTER TABLE "ASSIGNED\_RECIPE" ADD CONSTRAINT "ASSIGNED\_RECIPE\_FK1" FOREIGN KEY ("RECIPE\_ID") REFERENCES "RECIPE"("RECIPE\_ID");

# Intermediate: Populate tables

#### -- POPULATE USER TABLE

INSERT INTO USERS (NAME) VALUES ('ALFONSO'), ('KEATON');

### -- POPULATE AUTHENTICATION TABLE

INSERT INTO AUTHENTICATION (EMAIL, PASSWORD, USER\_ID) VALUES ('ALFONSO@HOTMAIL.COM', 'QWERTY1',1), ('KEATON@HOTMAIL.COM', 'QWERTY2',2);

### -- POPULATE RECIPE TABLE

INSERT INTO RECIPE (NAME,INGREDIENTS,INSTRUCTIONS,IS\_PRIVATE,USER\_ID) VALUES ('PEPPERCORN STEAK', 'PEPPERCORN STEAK INGREDIENTS', 'PEPPERCORN STEAK INSTRUCTIONS',FALSE,2),

('GREEK SALAD', 'GREEK SALAD INGREDIENTS', 'GREEK SALAD INSTRUCTIONS', FALSE, 1), ('MOCHA ESPRESSO ICE CREAM', 'MOCHA ESPRESSO ICE CREAM INGREDIENTS', 'MOCHA ESPRESSO ICE CREAM INSTRUCTIONS', FALSE, 2),

('RISOTTO WITH ASPARAGUS AND BACON', 'RISOTTO WITH ASPARAGUS AND BACON INGREDIENTS', 'RISOTTO WITH ASPARAGUS AND BACON INSTRUCTIONS', FALSE, 1);

#### -- POPULATE GROCERY LIST TABLE

INSERT INTO GROCERY\_LIST (USER\_ID,ITEMS)
VALUES (2,'PEPPERCORN STEAK INGREDIENTS'),
(1,'RISOTTO WITH ASPARAGUS AND BACON INGREDIENTS');

## -- POPULATE OCCASION TABLE

INSERT INTO OCCASION (USER\_ID,NAME) VALUES (2,'FAMILY DINNER NIGHT'), (1,'MOM'S BIRTHDAY');

## -- POPULATE ASSIGNED\_RECIPE TABLE

INSERT INTO ASSIGNED\_RECIPE (OCCASION\_ID,RECIPE\_ID) VALUES (1,1),(1,2),(2,4),(2,3);

## TEST QUERY: GET THE NAME OF ALL THE RECIPES ASSIGNED TO AN OCCASION

Select name from recipe join assigned\_recipie ar on recipe.recipe\_id = ar.recipe\_id Where ar.occasion id = 1;