* 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

* user, email, password
* user, recipe id, ingredients, instructions, public or private
* user, ingredients, grocery list id
* user, occasion, recipe id

Table Ideas

* User: this table hold information about user\_id, email and password, each row will be an individual user
* Recipe: info about user\_id, recipe\_id, ingredients, instructions, public/private. Each row will be an individual recipe.
* RecipeOccasion: recipe\_id, occasion\_id
* Occasion: user\_id, occasion\_id, occasion
* Grocery: user\_id, grocery\_id/recipe\_id

Relationships

One-to-many

* User, Recipe: one user can create many recipes

Many-to-many

* Recipe, RecipeOccasion Occasion: one recipe can be added to many occasions, and many recipes can be assigned to one occasion by a user.

One-to-one

* Recipe, Grocery: one recipe gives one list of ingredients in a grocery list