**PART 1: Conceptual Planning – Word/Google/Page Doc**

Step 1: Brainstorming

* User
* Recipe posts
* Ingredients
* Grocery list
* Occasions

Step 2: Table Ideas

* User – user\_id, username, firstname, lastname, email, password
* Recipe posts – recipe\_id, user\_id, time\_posted, dish\_name, ingredient\_id, directions, comments, likes, shares, ingredient\_amount
* Ingredients – ingredient\_id, ingredient\_name
* Grocery list – grocery\_list\_id, ingredient\_id, ingredient\_name, user\_id
* Occasions – occasion\_id, occasion\_name, occasion\_description, recipe\_id, user\_id

Step 3: Relationships

* One-to-one:
* One-to-many:
  + One user can have many posts, but one post cannot have many users
  + One user can have many grocery lists, but one grocery list cannot have many users
* Many-to-many:
  + One user can create many occasions, and one occasion can have many users
  + One recipe can have many ingredients, and one ingredient can be included in many recipes
  + One ingredient can be in many grocery lists, and one grocery list can have many ingredients
  + One recipe post can have many occasions, and one occasion can have many recipe posts

**PART 2: Table Planning – DB Designer & Word/Google/Page Doc**

Step 2: Columns

* User
  + User\_id – serial primary key to increment by 1 with new additions
  + Username – unique username to allow users to sign in
  + Password – password to verify this account belongs to you
  + Firstname – firstname information to display
  + Lastname – lastname information to display
  + Email – email for linking and verifying account
* Recipe posts
  + Recipe\_id – serial primary key to increment by 1 with new additions
  + User\_id – used for showing who the post belonged to
  + Time\_posted – shows when the post was created/uploaded
  + Dish\_name – name of dish used in recipe post
  + Directions – how-to/step-by-step text for recreating the recipe
  + Comments – section for comments about the recipe
  + Likes – integer to show amount of likes on a post
  + Shares – integer to show amount of shares on a post
  + Ingredient\_id – to grab ingredients needed for recipe from ingredients table
  + Ingredient\_amount – to grab ingredients amount needed for recipe from ingredients table
* Ingredients
  + Ingredient\_id – serial primary key to increment by 1 with new additions
  + ingredient\_name – name of individual ingredient items
* Grocery list
  + Grocery\_list\_id – serial primary key to increment by 1 with new additions
  + User\_id – users should be the owners of their own grocery list
  + Ingredient\_id – to grab ingredients needed for recipe from ingredients table
* Occasions
  + Occasion\_id – serial primary key to increment by 1 with new additions
  + Occasion\_name – to display what type of occasion it is
  + Occasion\_description – to tell readers more information about the occasion
  + Recipe\_id – to grab recipes from the recipe table that would be good for this occasion
  + User\_id – to show which user created this occasion