

Entity Relationship Diagram

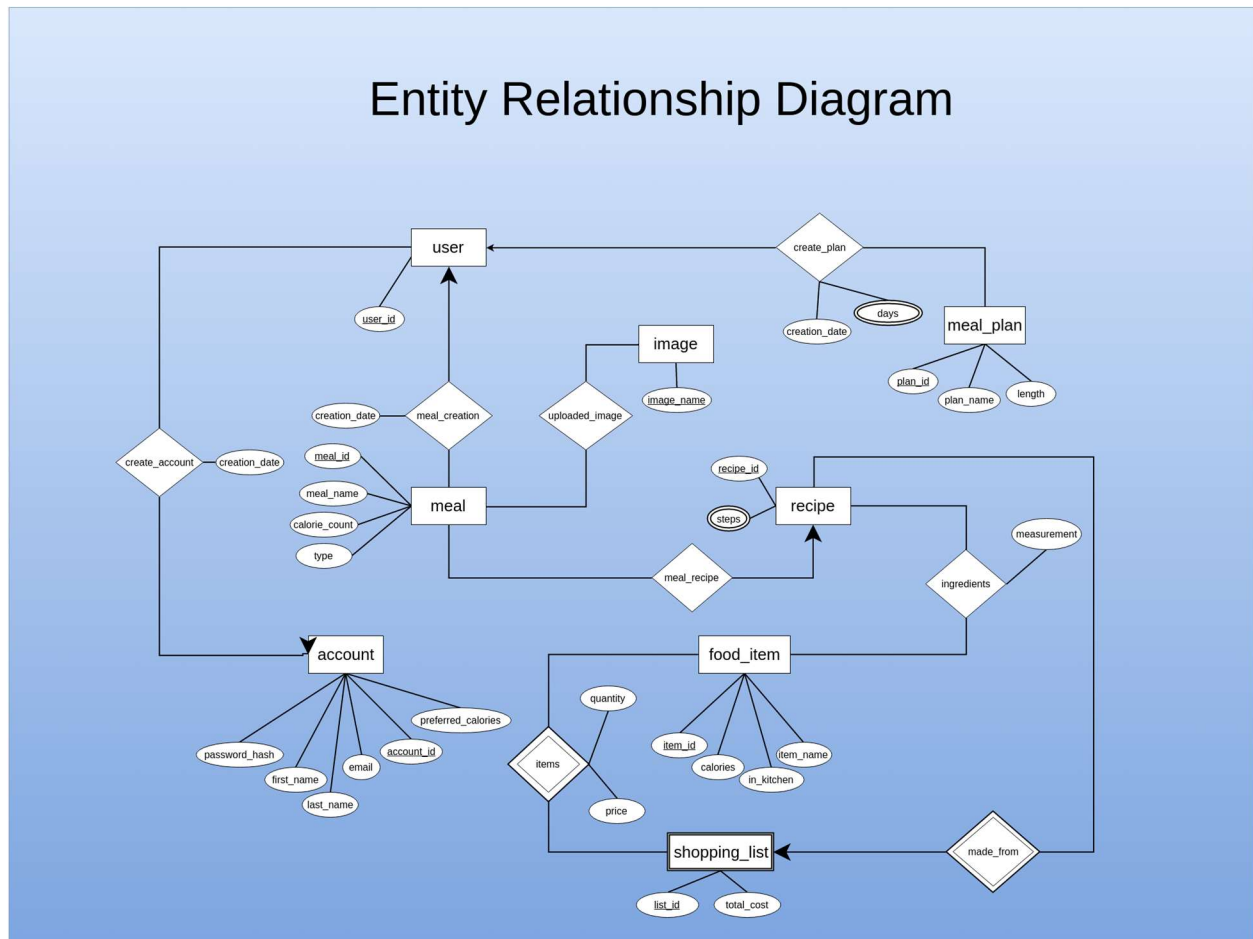


Diagram 1: Entity Relationship Diagram

Assumptions:

- The user can exist and interact with the application without creating an account

The schemas are shown below.

Strong entities:

- user(user_id)
- account(account_id, preferred_calories, first_name, last_name, email, password_hash)
- image(image_name)
- food_item(item_id, calories, item_name, in_kitchen)
- recipe(recipe_id, steps)
- meal_plan(plan_id, plan_name, no_of_weeks)
<days attr. should be attached to meal_plan entity>
<name change: length → no_of_weeks>
- meal(meal_id, meal_name, calorie_count, type)

Weak entities:

- shopping_list(list_id, total_cost)

Derived entities:

- meal_creation(meal_id, user_id, creation_date)
- create_account(user_id, account_id) <should be 1:1 rel.>
- create_plan(plan_id, user_id, creation_date)
- days(week_number, day_name, breakfast, lunch, dinner, snack)
- steps(recipe_id, step_number, step)
- *recipies_created(account_id, recipe_id) <don't remember where this came from, but I think it should be there>
- items(list_id, item_id, quantity, price)
- ingredients(recipe_id, item_id, measurement)
- upload_image(image_name, meal_id)
- meal_recipe(recipe_id, meal_id) <should be 1:1 rel.>
- made_from(recipe_id, list_id) <possibly redundant relationship, could be achieved by joining items with shopping_list>