

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>