### **Features**[**¶**](https://ed.devmountain.com/materials/fah3/exercises/data-modeling/#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

Brainstorming

* Email
* Followers
* Usernames
* Id
* Comments
* Groups
* Posts (content, images, date/time, location)
* User that made the comment
* Users that are part of the group
* like/dislikes
* Report user
* Mentions in comments

Tables

* Users
  + Email,password
* Admins
  + User id
* Calendar
* followers/followees
  + Follower id
  + Followee id
* Groups
  + Name
* Comments
  + Body
* Posts
  + Title
  + Image
  + Content
* Updoots
  + User id

SQL Code

​​CREATE TABLE "public.users" (

"user\_id" serial NOT NULL,

"email" serial NOT NULL,

"password" serial NOT NULL,

"ip\_address" serial NOT NULL,

CONSTRAINT "users\_pk" PRIMARY KEY ("user\_id")

) WITH (

OIDS=FALSE

);

CREATE TABLE "public.followers" (

"id" serial NOT NULL,

"followee\_id" int NOT NULL,

"followee\_id" int NOT NULL,

CONSTRAINT "followers\_pk" PRIMARY KEY ("id")

) WITH (

OIDS=FALSE

);

CREATE TABLE "public.groups" (

"group\_id" serial NOT NULL,

"name" TEXT NOT NULL

) WITH (

OIDS=FALSE

);

CREATE TABLE "public.posts" (

"post\_id" serial NOT NULL,

"title" TEXT NOT NULL,

"content" TEXT NOT NULL,

"image\_url" TEXT NOT NULL,

"timestamp" timestamp with time zone NOT NULL,

"location" TEXT NOT NULL,

"user\_id" int NOT NULL

) WITH (

OIDS=FALSE

);

CREATE TABLE "public.groups\_user\_join" (

"id" serial NOT NULL,

"user\_id" int NOT NULL,

"group\_id" int NOT NULL

) WITH (

OIDS=FALSE

);

CREATE TABLE "public.groups\_posts\_join" (

"group\_id" int NOT NULL,

"id" serial NOT NULL,

"posts\_id" serial NOT NULL

) WITH (

OIDS=FALSE

);

CREATE TABLE "public.comments" (

"comment\_id" serial NOT NULL,

"user\_id" serial NOT NULL,

"post\_id" int NOT NULL,

"body" TEXT NOT NULL

) WITH (

OIDS=FALSE

);

ALTER TABLE "followers" ADD CONSTRAINT "followers\_fk0" FOREIGN KEY ("followee\_id") REFERENCES "users"("user\_id");

ALTER TABLE "followers" ADD CONSTRAINT "followers\_fk1" FOREIGN KEY ("followee\_id") REFERENCES "users"("user\_id");

ALTER TABLE "posts" ADD CONSTRAINT "posts\_fk0" FOREIGN KEY ("user\_id") REFERENCES "users"("user\_id");

ALTER TABLE "groups\_user\_join" ADD CONSTRAINT "groups\_user\_join\_fk0" FOREIGN KEY ("user\_id") REFERENCES "users"("user\_id");

ALTER TABLE "groups\_user\_join" ADD CONSTRAINT "groups\_user\_join\_fk1" FOREIGN KEY ("group\_id") REFERENCES "groups"("group\_id");

ALTER TABLE "groups\_posts\_join" ADD CONSTRAINT "groups\_posts\_join\_fk0" FOREIGN KEY ("group\_id") REFERENCES "groups"("group\_id");

ALTER TABLE "groups\_posts\_join" ADD CONSTRAINT "groups\_posts\_join\_fk1" FOREIGN KEY ("id") REFERENCES "groups"("group\_id");

ALTER TABLE "groups\_posts\_join" ADD CONSTRAINT "groups\_posts\_join\_fk2" FOREIGN KEY ("posts\_id") REFERENCES "posts"("post\_id");

ALTER TABLE "comments" ADD CONSTRAINT "comments\_fk0" FOREIGN KEY ("user\_id") REFERENCES "users"("user\_id");