Final Project Design

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Function Requirements (MVP)

As an anonymous user:
- I can register a username and password
- I can login
- I can view a list of barbell lifts

As an authenticated USER user:
- I can view a list of all my workouts
- I can view a list of my workouts on a specific date or date range
- I can view a list of my workouts with a particular lift
- I can create a workout (for user)
- I can update a workout (for user)
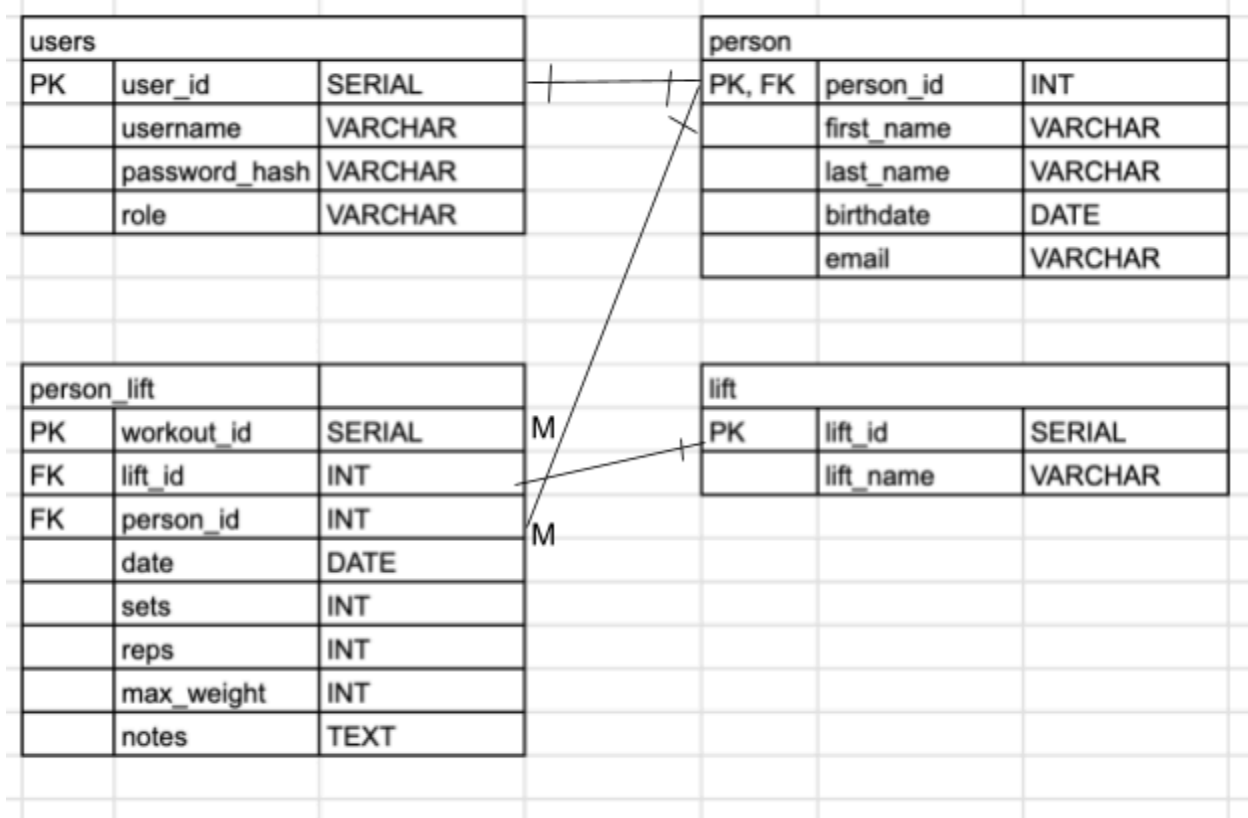- I can delete a workout (for user)

As an ADMIN user:
- Members:
  - I can view a list of members
- Workouts:
  - I can view a list of all member workouts
  - I can view a list of workouts for a member searching by last name
  - I can view a list of member workouts on a specific date or date range
  - I can view a list of members workouts for a particular lift

Views

1. LoginView
2. LogOutView
3. RegisterView
4. **HomeView(lifts) - accessible to everyone - list of lifts**
5. **WorkoutListView - a list of workouts with filters**
6. **CreateWorkoutView - form to create a workout**
7. **UpdateWorkoutView - use the same component as CreateWorkout**
8. **MemberView - admin only - shows member information**

Database ERD Diagram

users

PK	user_id	SERIAL
	username	VARCHAR
	password_hash	VARCHAR
	role	VARCHAR

person

PK, FK	person_id	INT
	first_name	VARCHAR
	last_name	VARCHAR
	birthdate	DATE
	email	VARCHAR

person_lift

PK	workout_id	SERIAL
FK	lift_id	INT
FK	person_id	INT
	date	DATE
	sets	INT
	reps	INT
	max_weight	INT
	notes	TEXT

lift

PK	lift_id	SERIAL
	lift_name	VARCHAR

API Endpoint Design

Endpoint	Method	Query Params	Description	Success	Error	Authentication
/api/register	POST	none	Register a username and password	201	400, 422	none
/api/login	POST	none	Login with username and password	201	401, 422	none
/api/lifts	GET	none	Get list of all barbell lifts	200	404	none
/api/workouts	GET	none/ lastName/ date/ date range/ lift	Get all member workouts [optionally filter by lastName (only for admin), date, date range, or lift]	200	404, 403	authenticated USER, authenticated ADMIN
/api/workouts	POST	none	Create a workout (for authenticated user)	201	404, 401	authenticated USER
/api/workouts/{id}	PUT	none	Update a workout (for authenticated user)	201	404, 401	authenticated USER
/api/workouts/{id}	DELETE	none	Delete a workout (for authenticated user)	204	404, 402	authenticated USER
/api/members	GET	none	View list of members	200	404, 403	authenticated ADMIN