End of Module 2 Project Design

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Function Requirements

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

Database ERD Diagram

users				person				
PK	user_id	SERIAL	1	PK, FK	person_id	INT		
	username	VARCHAR		4	first_name	VARCHAR		
	password_hash	VARCHAR			last_name	VARCHAR		
	role	VARCHAR			birthdate	DATE		
			/		email	VARCHAR		
			/					
perso	person_lift] /	lift	lift			
PK	workout_id	SERIAL	□м/	PK	lift_id	SERIAL		
FK	lift_id	INT	1/	'	lift_name	VARCHAR		
FK	person_id	INT	Д м					
	date	DATE]' ' '					
	sets	INT						
	reps	INT						
	max_weight	INT						
	notes	TEXT	1					

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