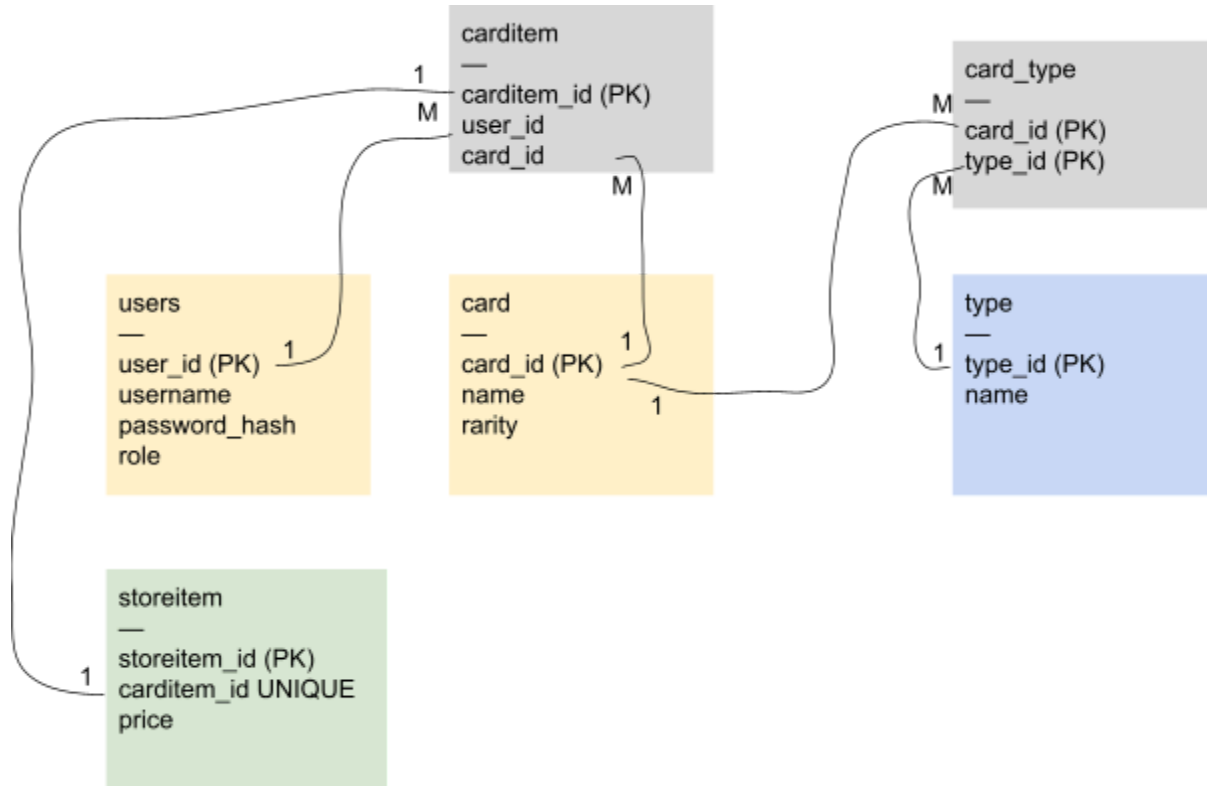# Module 2 Project Design

Functional Requirements (MVP)

- As an unauthenticated user, I can:
  - Register a username and password (given)
  - Log in (given)
  - View a list of all the cards
  - View a specific card
- As an authenticated user, I can:
  - View a list of cards (i.e. carditems) that I own
  - View a list of the cards (i.e. carditems) up for sale on the store
  - Search the store by card name
  - Put a card up for sale on the store (i..e create a storeitem)
  - View a list of the cards I've put up for sale (i.e. my storeitems)
  - Take down a card (i.e. storeitem) I've put up for sale
- As an ADMIN, I can:
  - See a list of all users
  - Create a card
  - Update a card
  - Delete a card
  - Give a card (i.e. carditem) to a user
  - Take a card (i.e. carditem) from a user
  - Delete a store item

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Database ERD Diagram

carditem

—

carditem_id (PK)
user_id
card_id

card_type

—

card_id (PK)
type_id (PK)

1

M

M

M

M

M

1

users

—

user_id (PK)
username
password_hash
role

1

card

—

card_id (PK)
name
rarity

1

1

type

—

type_id (PK)
name

1

storeitem

—

storeitem_id (PK)
carditem_id UNIQUE
price

1

—

API Endpoint Design

Endpoint	Method	Query Params	Description	Success	Errors	Authentication
/api/users	GET		Get all users			ADMIN
/api/cards	GET		Get all cards	200		none
/api/cards/{id}	GET		Get a specific card	200	404	none
/api/cards	POST		Create a card	201	403	ADMIN
/api/cards/{id}	PUT		Update a card	200	403, 404	ADMIN
/api/cards/{id}	DELETE		Delete a card	204	403	ADMIN
/api/cards/ mycards	GET		Get all the card items you own	200	401	authenticated user
/api/users/{id}/cards	GET		Get all the card items owned by a user	200	403	ADMIN
/api/carditem	POST		Add a card to a user's collection	201	403	ADMIN
/api/carditem/{id}	DELETE		Remove a card from a user's collection	204	403, 404	ADMIN
/api/store	GET	*name*	Get all items on the store	200	401, 404	authenticated user
/api/store/{id}	GET		Get a specific store item	200	401, 404	authenticated user
/api/store/mycards	GET		Get all the cards you've put on the store	200	401, 403, 404	authenticated user (item owner)
/api/store	POST		Create a store item (i.e. put a card up for sale)	201	401	authenticated user (card owner)
/api/store/{id}	DELETE		Delete a store item	204	403, 404	ADMIN or item owner