

Group 48

PogoTrade

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Executive Summary

The initial version of our project had just one join table for the action of having a trade. Our first peer feedback we received gave us the idea to have an “accepted” attribute on that table to decide on whether the trade has been accepted or not. We like the general idea of this because it allowed us to differentiate between trades which are searching for Pokemon vs. trades which are accepting Pokemon.

To implement this feedback we instead decided to have two join tables. One would be called Accepting and the other called Offering. This allowed us to have people go to separate pages for whether they were trying to offer their Pokemon, or find someone else's Pokemon to obtain. We think that this design change made a lot of sense, and also simplified the implementation a lot. This way we wouldn't have to track active or completed trades.

Our first web implementation had just one page for “Users”. We found this to be confusing because we actually have multiple kinds of users. We have discord accounts, which can be tracked to multiple trainer accounts. Trainer accounts are the accounts on the actual PokemonGo app, while Discord accounts are on the Discord app. We decided it would be best to split these two accounts into separate pages. This means that when you add a trainer, you need to add it to your Discord account. With this implementation, users can go and add many trainers to their one Discord account.

We also received feedback regarding Pokemon, and the users ability to change the Pokemon field with whatever values they might like. Some people would have liked these values to be predetermined, and the users would select from them. We decided not to implement this change because down the road we see the Pokedex as being somewhat of an admin page. Likewise, some requested a drop down menu as opposed to fill in the blank for the offers/accept to prevent people adding things that don't exist. We liked this idea and implemented it for offers/accept, as well as having a list of discord names and teams for creating a user.

We also implemented the cascade for the foreign keys to help remove trainers/Pokemon if they are involved in an offering/accepting based on Daniel Tran's feedback. This made sense to us, because if a trainer quits or a Pokemon was added in error, we would like to be able to delete it without worrying about whether they are currently involved in a trade or not.

Project Outline

In Pokemon Go, players can trade Pokemon with each other. Some popular Pokemon that people want to trade are regionals, shinies, and special Pokemon. Regional Pokemon are Pokemon that can only be caught in certain parts of the world. Shinies are Pokemon that have an alternative color palette and are relatively rare. Special Pokemon are classified as Pokemon that have a move that was only available for a limited time. The following is an example of a Pokemon that is both shiny and special. The following is an example of a Pokemon that is both shiny and special.



This database is used for Pokemon Go players to facilitate trades. Users can search the database to find Pokemon they're looking for and also list Pokemon they want to trade. Pokemon Go also has a "lucky friends" feature, where players may sometimes have a one-time special trade with each other; as a result, users may also want to search a user to see what they have to trade and what they want to receive.

Users may add or remove Pokemon they're looking for/have to trade on the website.

Database Outline

Discord Name Table

- Description: User's Discord Name
- Properties
 - DiscordID: int, auto-increment
 - Name: varchar(32)
 - Discord username of the user.
- Relationship:
 - One to many with trainer name.

Trainer name Table

- Description: User's name in Pokemon Go. Some users have multiple accounts under a single communication name (for their friends/family members, etc.)
- Properties
 - TrainerID: int, auto-increment
 - Name: varchar(16)
 - PokemonGo Username.
- Relationship:
 - One to many with offer/accept table.
 - Many to many with PokeDex.
 - Many to one with DiscordName.
 - Many to one with Team.

Offer/Accept Table (Join, not entity)

- Description: Pokemon that players are looking for
- Properties
 - Offer/AcceptID: int, auto-increment
 - TrainerID: int
 - Trainer making the trade offer. Must be a valid Trainer ID.
 - PokemonOffer/AcceptID: int
 - The Pokemon that is being offered as a trade. Must be a valid Pokemon ID.
 - Relationship:
 - Many to one with Trainer.
 - Many to one PokeDex.

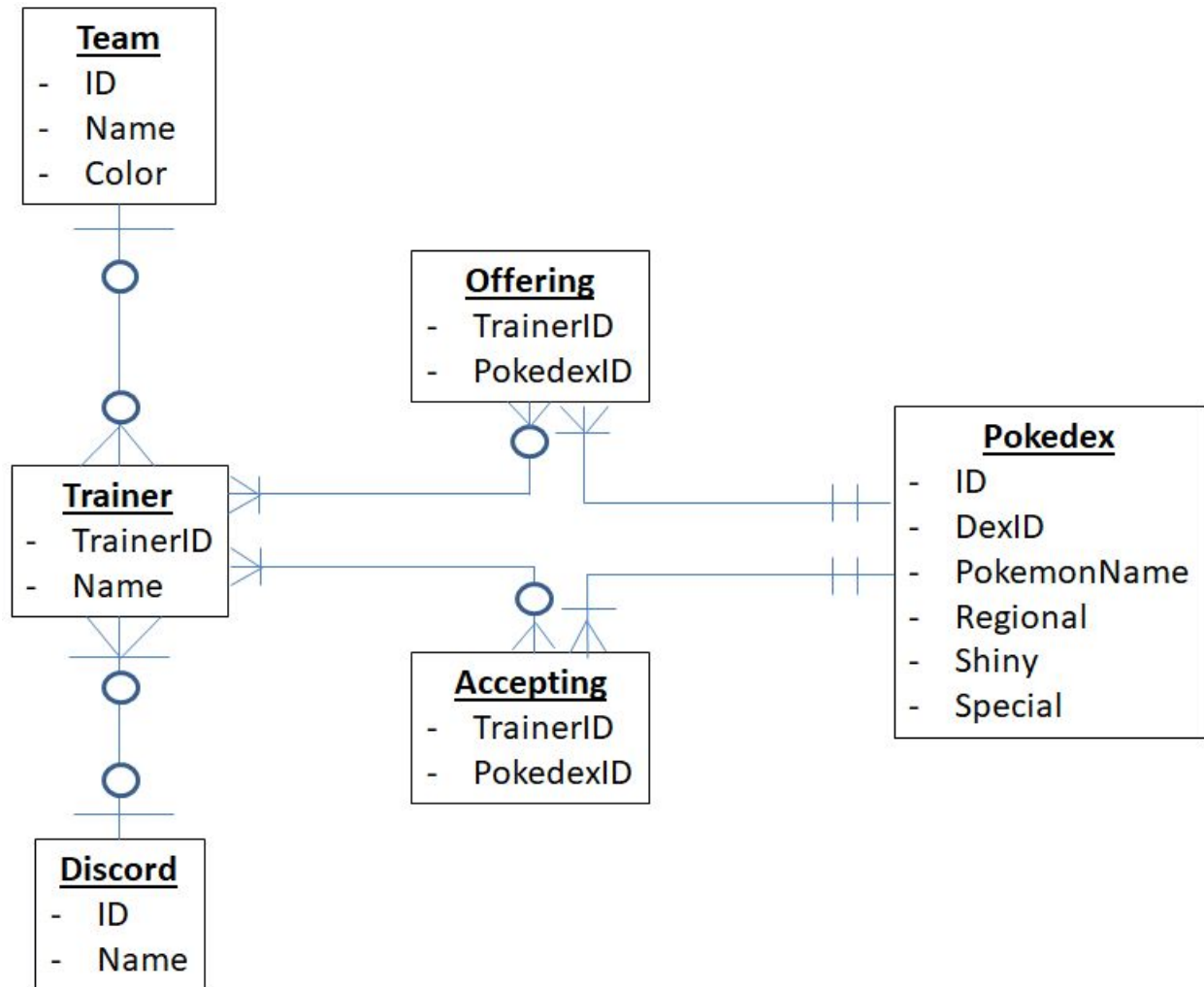
Pokedex Table

- Description: Pokemon that players have and are willing to trade with all the permutations of Pokemon with shiny, and special. Regional is a static property.
- Properties
 - PokemonID
 - Name: varchar(16)
 - Shiny: bool
 - Whether the Pokemon is shiny.
 - Regional: bool
 - Whether the Pokemon is regional.
 - Special: bool
 - Whether the Pokemon is special.
- Relationships: Many to many with Trainer.
- One to many with offer/accept tables.

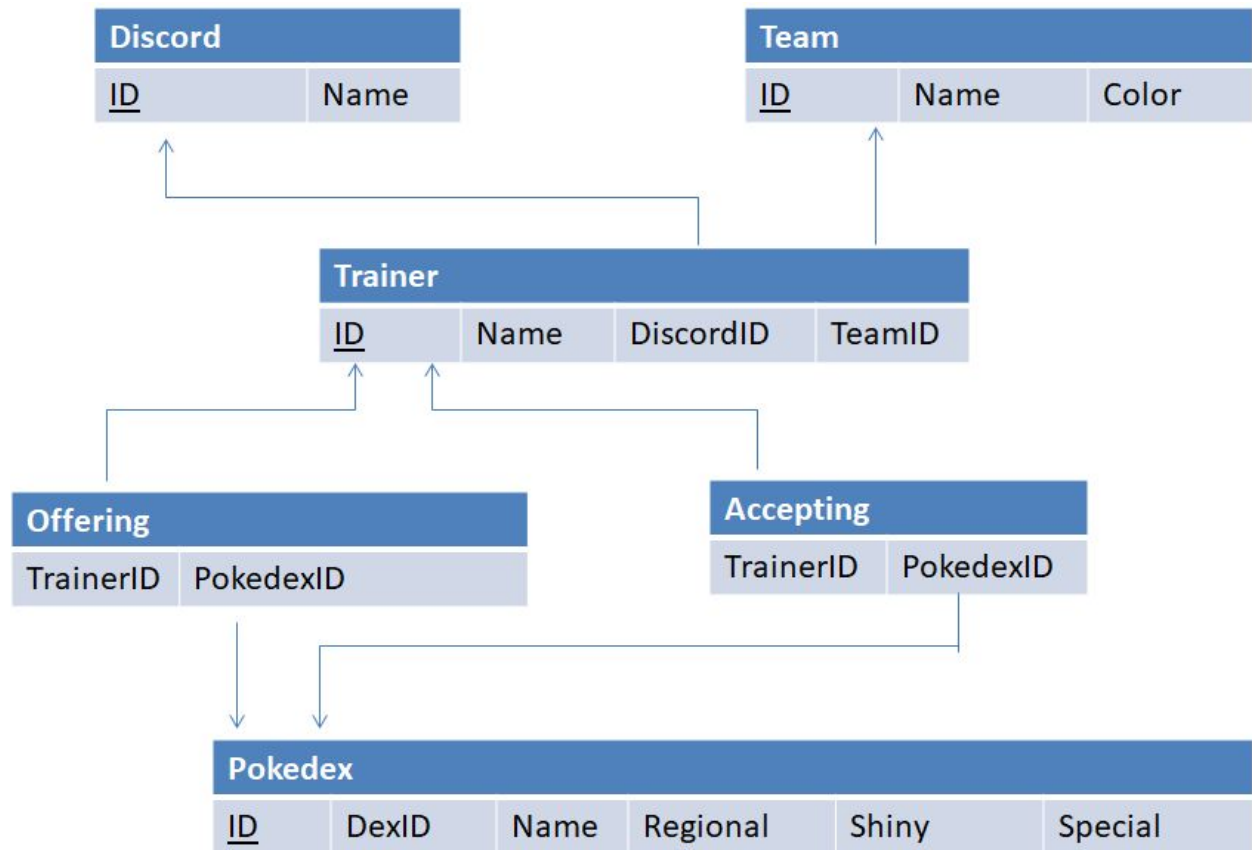
Team Table

- Description: Team that a trainer belongs to
- Properties
 - TeamID: int: auto-increment
 - Name: varchar(16)

ER Diagram



Schema



UI Screenshots

Read/Delete/Add/Search Offering page

PokeTrader

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Offering

New

Search..

Pokemon

Trainer

Discord

Search

Pokemon	Discord Name	Trainer Name	Shiny	Special	Regional	Edit	Remove
Bulbasaur	Chipaiy	josh1	No	No	No	edit	delete
Ivysaur	PerfectShinyPumpkinKing	ScrewdaBlue	No	No	No	edit	delete
Ivysaur	Chipaiy	josh1	No	No	No	edit	delete

Update Offering Page

PokeTrader

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[Teams](#)

Pokemon Name:

Bulbasaur

Trainer Name:

josh1

Shiny:

No

Regional:

No

Special:

No

Submit

Read/Delete/Add/Search Accepting page

PokeTrader

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Accepting

New

Search...

Pokemon

Trainer

Discord

Search

Pokemon	Discord Name	Trainer Name	Shiny	Special	Regional	Edit	Remove
Bulbasaur	PerfectShinyPumpkinKing	ScrewdaBlue	No	No	No	edit	delete
Bulbasaur	Chipaly	josh1	No	No	No	edit	delete
Ivysaur	PerfectShinyPumpkinKing	ScrewdaBlue	No	No	No	edit	delete

Update Accepting Page

PokeTrader

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Pokemon Name:

Bulbasaur

Trainer Name:

ScrewdaBlue

Shiny:

No

Regional:

No

Special:

No

Submit

Read/Delete/Add/Search Discord page

PokeTrader

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Discord

New

Search..

Search

Discord Name	Edit	Delete
Chipaiy	edit	delete
josh	edit	delete
MicroMice	edit	delete
Neenja	edit	delete
PerfectShinyPumpkinKing	edit	delete
Wink	edit	delete
Winks	edit	delete

Update Discord Page

PokeTrader

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Discord Name:

Read/Delete/Add/Search Trainer page

PokeTrader

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Trainers

[Add Trainer](#)

Search..

☒ Discord Name ☐ Trainer Name ☐ Team Name

Search

Discord Name	Trainer Name	Team Name	Edit	Delete
PerfectShinyPumpkinKing	ScrewdaBlue	Valor	edit	delete
Chipaiy	josh1	Valor	edit	delete
Chipaiy	test	Valor	edit	delete
Chipaiy	test4	Instinct	edit	delete

Update Trainer Page

PokeTrader

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Trainer Name:

Team:

Read/Delete/Add Pokedex page

PokeTrader

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Pokedex

[New](#)

Pokedex ID	Pokemon Name	Regional	Shiny	Special	Edit	Delete
1	Bulbasaur	0	0	0	edit	Remove
2	Ivysaur	0	0	0	edit	Remove
3	Venusaur	0	0	0	edit	Remove
3	Venusaur	0	1	1	edit	Remove

Update Pokedex Page

PokeTrader

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Pokemon Name:

Shiny:

Regional:

Special:

Read/Delete/Add/Search Teams page

PokeTrader

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Teams

[New](#)

[Search](#)

Team Name	Team Color	Delete
Valor	red	delete
Instinct	yellow	delete
Mystic	blue	delete

Remove Discord name from Trainer

Trainers

[Add Trainer](#)

☒ Discord Name ☐ Trainer Name ☐ Team Name

[Search](#)

Discord Name	Trainer Name	Team Name	Edit	Delete
	Winks	Valor	edit	delete
	test	Valor	edit	delete