Team Hmmmmmmm -- Amanda Chen, Ivan Galakhov, Eric Lam, Joseph Lee
SoftDev1 pd1
P#01: ArRESTed Development
2019-12-03

Description

This website is an interactive experience for Pokemon Trading Card Game enthusiasts. Users will be able to buy, sell, and trade digital Pokemon cards with people from all over the world. The three APIs that we will be using are:

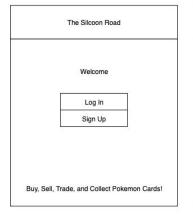| API	What is it used for?
Pokémon TCG	This API will be used to get information about the Pokemon cards such as the image and name of the Pokemon
IP Location	This API will be used to determine the user's location
Foreign Exchange Rates	This API will be used to calculate the prices of Pokemon Cards in the marketplace to show prices in terms of their location's currency

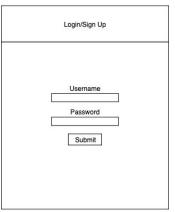**Front-End Framework:** Bootstrap

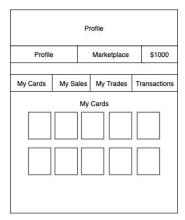**List of Features** *(minimum viable product features are indicated by a *)*

- Profile
  - View Pokemon cards user currently has*
  - View cards user is currently selling*
  - VIew cards user is currently requesting to trade*
  - View amount of money user has*
  - Users can change their current location*
  - View Past Transactions
    - View Purchase History
    - View Selling History
    - View Trading History
- Marketplace
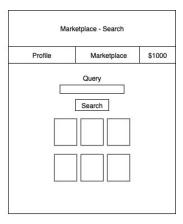 - Packs*
    - Users can buy packs from the website

- ■ Users can view what cards they've received after buying a pack
- ○ Cards*
  - ■ Users can buy cards from other users
  - ■ Users can sell their cards at the marketplace through a button called "Sell a Card"
  - ■ Shows price of cards with the currency of the location the user is at
- ○ Trading Page*
  - ■ Users can put their cards up for trade by requesting another card in place of the one they have
  - ■ Users can view trade requests and accept them
- ○ Search*
  - ■ Users can search for specific cards
  - ■ Users can filter viewing of cards by type or rarity
- ○ Individual Card Page*
  - ■ View information about that Card
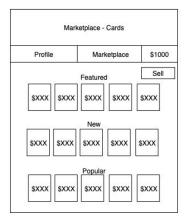 - ■ View all current sales and trades involving that Card
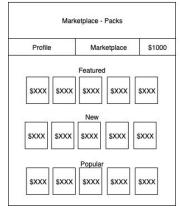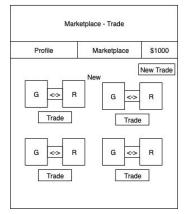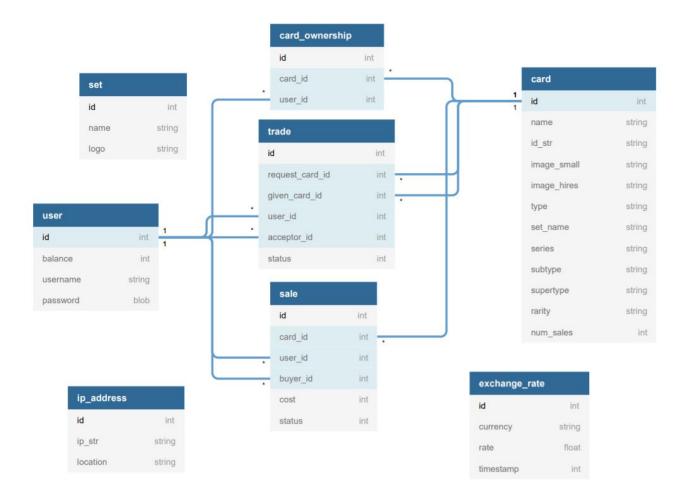
Site Components

Database Layout:

card_ownership

id	int
card_id	int
user_id	int

set

id	int
name	string
logo	string

trade

id	int
request_card_id	int
given_card_id	int
user_id	int
acceptor_id	int
status	int

card

id	int
name	string
id_str	string
image_small	string
image_hires	string
type	string
set_name	string
series	string
subtype	string
supertype	string
rarity	string
num_sales	int

user

id	int
balance	int
username	string
password	blob

sale

id	int
card_id	int
user_id	int
buyer_id	int
cost	int
status	int

ip_address

id	int
ip_str	string
location	string

exchange_rate

id	int
currency	string
rate	float
timestamp	int

Site Map

Component Map

Frontend Feature	Backend	Relationship
Login	user	If credentials are valid, login
Registration	user	If username not in users table, insert into users table
View my Cards	card_ownership	Select cards from entry in user table
View my Trades	trade, card	Select incomplete trades made by user from trade table
View my Sales	sale, card	Select incomplete sales made by user from sale table
View my Sale History	sale, card	Select sales completed by user from sale table
View my Trade History	trade, card	Select trades completed by user form trade table

View Packs on Sale	set, sale	Select predetermined sets from set table
View Cards on Sale	card, sale	Select cards on sale from user table
View Requested Trades	card, trade	Select most recently posted trades from trade table
View Individual Card Pages	card	Select card from card table
Buy a Card	user, card, sale, card_ownership	Delete from seller's entry, insert into current user's entry, modify card_ownership, modify money amount
Buy a Pack	user, card, set, card_ownership	Add randomly generated cards from set to user, modify card_ownership
Sell a Card	sale	Insert a new sale into sale table
Offer Trade Request	trade	Insert a new trade request into trade table
Accept Trade Request	user, card, trade, card_ownership	Delete cards from and insert cards to both users' entries, modify card_ownership
Search for a Card	card	Query card table

Task Division

Amanda Chen	● Front-End: Profile (All Six Parts), Buying (minor), and Packs ● Back-end: Profile (All Six Parts), Buying (minor), and Card Packs ● Managing: checking for logical flow of website
Eric Lam	● Front-End: Buying (major), Selling, Trading, and Profile Bar ● Back-end: Buying (major), Trading, and Selling ● Managing: checking for logical setup of functions and database relationships
Ivan Galakhov	● Backend: Login/Registration, Search, Individual Card Pages, IP Address/Location ● Front-end: IP Address/Location, Individual Card Pages,

	● Managing: checking for logical setup of database tables

Joseph Lee	● Managing: App Routing, Team and individual Tasks, and Project Pacing
	   ○ Checking for logical setup and connection of app routes
	   ○ Making sure project members are on top of tasks
	   ○ Setting deadlines for crucial phases of product
	● Helping With: Frontend and backend tasks when applicable
	● Updating: Devlog and Design Doc
	● Fixing Bugs