PokeDex WebApp: Phase 1

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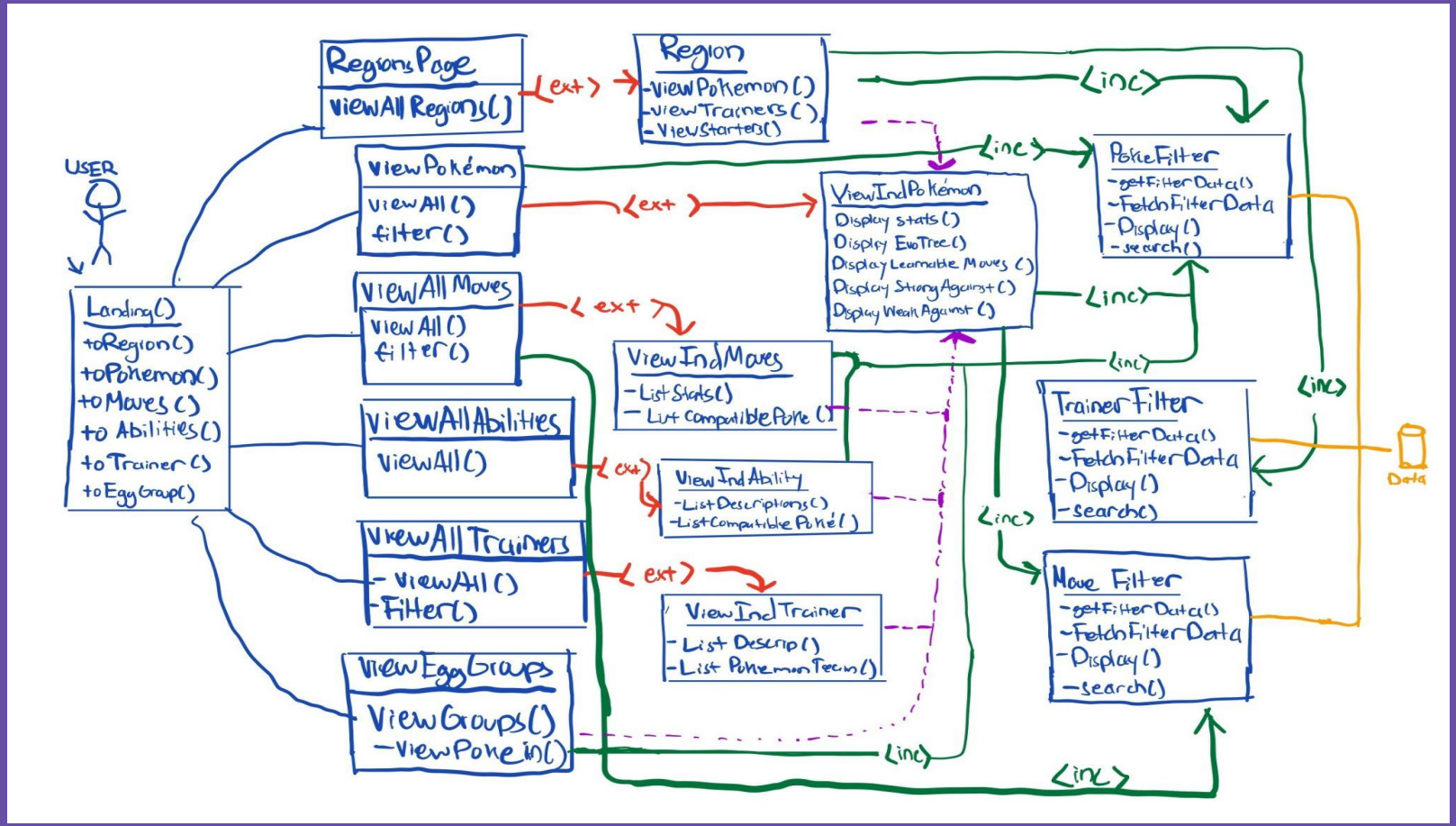
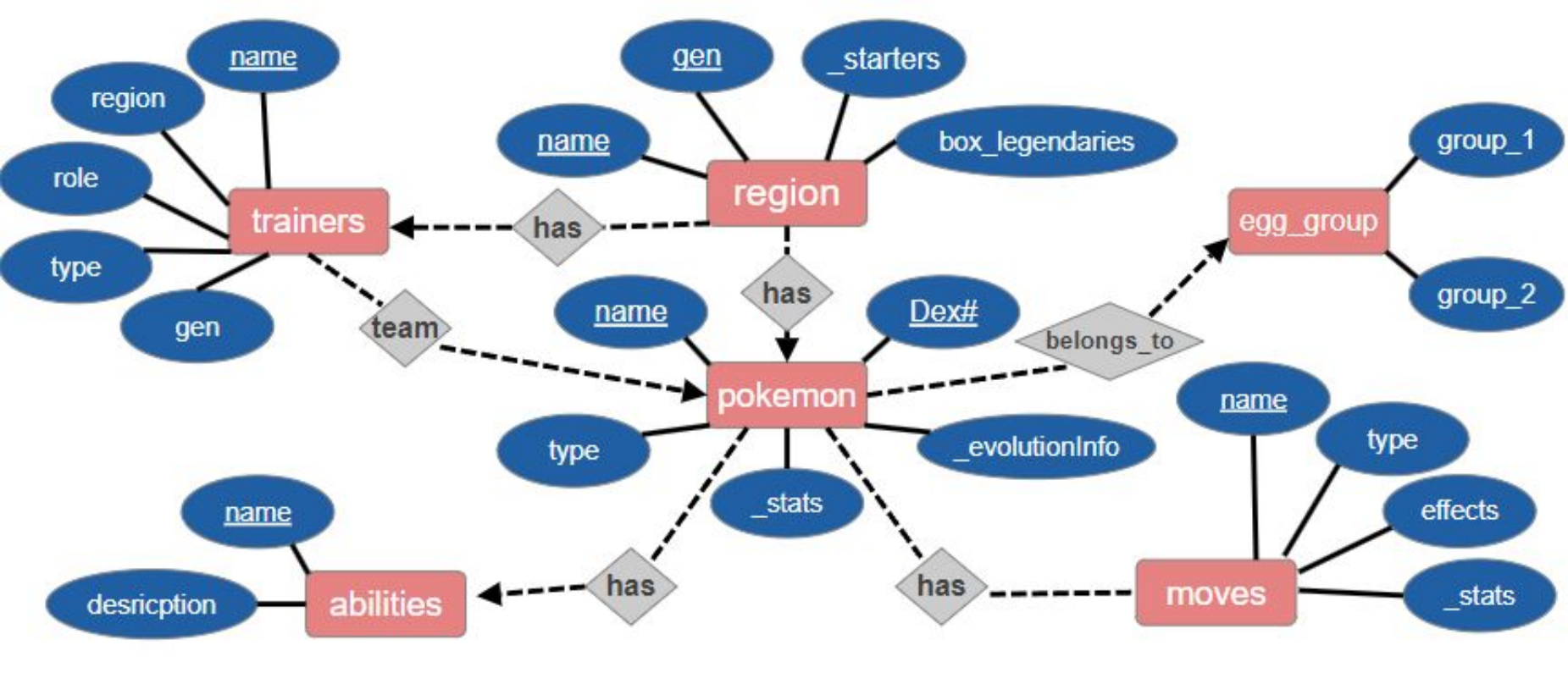
UML Diagram


RegionsPage
viewAllRegions()
ext
Region
-viewPokemon()
-viewTrainers()
-viewStarters()
inc
USER
viewPokémon
viewAll()
filter()
ext
ViewIndPokémon
Display stats()
Display EvoTree()
Display Learnable Moves()
Display Strong Against()
Display Weak Against()
PokeFilter
-getFilterData()
-FetchFilterData
-Display()
-search()
viewAllMoves
viewAll()
filter()
ext
ViewIndMoves
-List Stats()
-List compatiblePoke()
Landing()
+toRegion()
+toPokemon()
+toMoves()
+toAbilities()
+toTrainer()
+toEggGroup()
viewAllAbilities
viewAll()
ext
ViewIndAbility
-ListDescriptions()
-ListCompatiblePoké()
TrainerFilter
-getFilterData()
-FetchFilterData
-Display()
-search()
Data
viewAllTrainers
-viewAll()
-Filter()
ext
ViewIndTrainer
-List Descrip()
-List PokemonTeams()
MoveFilter
-getFilterData()
-FetchFilterData
-Display()
-search()
viewEggGroups
ViewGroups()
-viewPokeIn()
inc
inc

ER Diagram


name
region
role
type
gen
trainers
has
team
gen
_starters
name
box_legendaries
region
has
name
Dex#
pokemon
type
_evolutionInfo
_stats
belongs_to
egg_group
group_1
group_2
name
type
effects
_stats
moves
has
has
name
desricption
abilities

Tables

```
CREATE TABLE regions(
    r_region_name TEXT PRIMARY KEY,
    r_generation INT,
    r_fire_starter TEXT,
    r_water_starter TEXT,
    r_grass_starter TEXT,
    r_box_legendaries TEXT
);
```

```
CREATE TABLE trainers(
    t_region TEXT,
    t_gen INT,
    t_name TEXT PRIMARY KEY,
    t_type TEXT,
    t_role TEXT,
    t_pokemon TEXT[]
);
```

```
CREATE TABLE moves(
    m_name TEXT PRIMARY KEY,
    m_type TEXT,
    m_catagory TEXT,
    m_effect TEXT,
    m_power INT,
    m_acc INT,
    m_pp INT,
    m_prob INT,
    m_gen INT
);
```

```
CREATE TABLE abilities(
    a_name TEXT PRIMARY KEY,
    a_description TEXT,
    a_generation INT
);
```

```
CREATE TABLE egg_groups(
    e_name TEXT PRIMARY KEY,
    e_egg_group_1 TEXT,
    e_egg_group_2 TEXT
);
```

```
CREATE TABLE pokemon(
    p_abilities TEXT[],
    p_against_bug REAL,
    p_against_dark REAL,
    p_against_dragon REAL,
    p_against_electric REAL,
    p_against_fairy REAL,
    p_against_fight REAL,
    p_against_fire REAL,
    p_against_flying REAL,
    p_against_ghost REAL,
    p_against_grass REAL,
    p_against_ground REAL,
    p_against_ice REAL,
    p_against_normal REAL,
    p_against_poison REAL,
    p_against_psychic REAL,
    p_against_rock REAL,
    p_against_steel REAL,
    p_against_water REAL
    p_attack INT,
    p_base_egg_steps INT,
    p_base_happiness INT,
    p_base_total INT,
    p_capture_rate INT,
    p_classfication TEXT,
    p_defense INT,
    p_experience_growth INT,
    p_height_m REAL,
    p_hp INT,
    p_japanese_name TEXT,
    p_name TEXT,
    p_percentage_male REAL,
    p_pokedex_number INT PRIMARY KEY,
    p_sp_attack INT,
    p_sp_defense INT,
    p_speed INT,
    p_type1 TEXT,
    p_type2 TEXT,
    p_weight_kg REAL,
    p_generation INT,
    p_is_legendary INT,
    p_evo_species INT,
    p_evo_stage INT
);
```

Tables

	A	B	C	D	E	F
1	t_region	t_gen	t_name	t_type	t_role	t_pokemon
2	Kanto	1	Blaine	fire	gym_leader	['Growlithe', 'Pontya', 'Rapidash', 'Arcanine']
3	Kanto	1	Misty	water	gym_leader	['Staryu', 'Starmie']
4	Kanto	1	Erika	grass	gym_leader	['Victreebel', 'Tangela', 'Vileplume']
5	Kanto	1	Lt. Surge	electric	gym_leader	['Voltorb', 'Pikachu', 'Raichu']
6	Kanto	1	Koga	poison	gym_leader	['Koffing', 'Koffing', 'Weezing', 'Muk']

	A	B	C
1	a_name	a_description	a_generation
2	Stench	By releasing a stench when attacking, the Pokémon may cause the target to flinch.	3
3	Drizzle	The Pokémon makes it rain when it enters a battle.	3
4	Speed Boost	The Pokémon's Speed stat is boosted every turn.	3
5	Battle Armor	Hard armor protects the Pokémon from critical hits.	3
6	Sturdy	The Pokémon cannot be knocked out by a single hit as long as its HP is full. One-hit KO moves will also fail to knock	3
7	Damp	The Pokémon dampens its surroundings, preventing all Pokémon from using explosive moves such as Self-Destruct.	3

	A	B	C	D	E	F	G	H	I	J
1	Name	Type	Category	Effect	Power	Acc	PP	TM	Prob.(%)	Gen
2	10,000,000 Volt	Electric	Special	Pikachu-exclusive Z-Move.	195		1			7
3	Absorb	Grass	Special	User recovers half the HP inflicted on opponent.	20	100	25			1
4	Accelerock	Rock	Physical	User attacks first.	40	100	20			7
5	Acid	Poison	Special	May lower opponent's Special Defense.	40	100	30		10	1
6	Acid Armor	Poison	Status	Sharply raises user's Defense.			20			1
7	Acid Downpour	Poison	Z-Move	Poison type Z-Move.			1			7
8	Acid Spray	Poison	Special	Sharply lowers opponent's Special Defense.	40	100	20		100	5

Tables

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	abilities	against_bug	against_dark	against_dragon	against_electric	against_fairy	against_fight	against_fire	against_flying	against_ghost	against_grass	against_ground	against_ice	against_normal	against_poison	against_p
2	['Overgrow', 'Chl	1	1	1	0.5	0.5	0.5	2	2	1	0.25	1	2	1	1	
3	['Overgrow', 'Chl	1	1	1	0.5	0.5	0.5	2	2	1	0.25	1	2	1	1	
4	['Overgrow', 'Chl	1	1	1	0.5	0.5	0.5	2	2	1	0.25	1	2	1	1	
5	['Blaze', 'Solar P	0.5	1	1	1	0.5	1	0.5	1	1	0.5	2	0.5	1	1	
6	['Blaze', 'Solar P	0.5	1	1	1	0.5	1	0.5	1	1	0.5	2	0.5	1	1	
7	['Blaze', 'Solar P	0.25	1	1	2	0.5	0.5	0.5	1	1	0.25	0	1	1	1	
8	['Torrent', 'Rain D	1	1	1	2	1	1	0.5	1	1	2	1	0.5	1	1	
9	['Torrent', 'Rain D	1	1	1	2	1	1	0.5	1	1	2	1	0.5	1	1	
10	['Torrent', 'Rain D	1	1	1	2	1	1	0.5	1	1	2	1	0.5	1	1	
11	['Shield Dust', 'R	1	1	1	1	1	0.5	2	2	1	0.5	0.5	1	1	1	
12	['Shed Skin']	1	1	1	1	1	0.5	2	2	1	0.5	0.5	1	1	1	
13	['Compoundeyes	0.5	1	1	2	1	0.25	2	2	1	0.25	0	2	1	1	
14	['Shield Dust', 'R	0.5	1	1	1	0.5	0.25	2	2	1	0.25	1	1	1	0.5	

	A	B	C
1	e_name	e_egg_group_1	e_egg_group_2
2	Bulbasaur	Monster	Grass
3	Ivysaur	Monster	Grass
4	Venusaur	Monster	Grass
5	Charmander	Monster	Dragon
6	Charmeleon	Monster	Dragon
7	Charizard	Monster	Dragon
8	Squirtle	Monster	Water 1
9	Wartortle	Monster	Water 1
10	Blastoise	Monster	Water 1
11	Caterpie	Bug	
12	Metapod	Bug	

	A	B	C	D	E	F
1	r_region_name	r_generation	r_fire_starter	r_water_starter	r_grass_starter	r_box_legendaries
2	Kanto	1	Charmander	Squirtle	Bulbasaur	['Articuno', 'Zapdos', 'Moltres']
3	Johto	2	Cyndaquil	Totodile	Chikorita	['Ho-oh', 'Lugia']
4	Hoenn	3	Torchic	Mudkip	Treeko	['Kyogre', 'Groudon', 'Rayquaza']
5	Sinnoh	4	Chimchar	Piplup	Turtwig	['Dialga', 'Palkia', 'Giratina']
6	Unova	5	Tepig	Oshawott	Snivy	['Zekrom', 'Reshiram', 'Kyurem']
7	Kalos	6	Fennekin	Froakie	Chespin	['Xerneas', 'Yveltal', 'Zygarde']
8	Alola	7	Litten	Popplio	Rowlet	['Solgaleo', 'Lunala', 'Necrozma']