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SoftDev1 pd07
P02 -- The End
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Pokemon Dungeon

Description

Pokemon 2D Dungeon Explorer. The classic game of pokemon. You choose a starter out of three different pokemon, and using that pokemon you battle wild pokemon and trainers to level up.

Basic Features:

- Signup/login
- Choose a starter Pokemon
- Walk around on a map (minimum grassy field)
- Encounter Pokemon
- Battle Pokemon
- Capture Pokemon
- Get items (drops from Pokemon battles)
- Feed/Heal your Pokemon

Possible Extra Features:

1. Use the Poke API to create a pokedex with all the possible pokemon and basic stats.
2. Evolution- Get up to a certain level
3. Add a tamagotchi feature. Where you can choose a Pokemon pet and level it up by feeding it food and playing with the pokemon.
4. Add buildings to enter in (a store to buy items, civilian houses, pokegym)
5. Use weather of the current location to determine what pokemon appear. (ex. If it is raining the chances of water type wild pokemon appearing increases by a certain percentage) <- uses user ip to find weather of that location

Overview of Components:

- APIs:
 - **Poke API**
 - Used to find pokemon and their stats.
 - Extras:
 - **IP API:** Used in conjunction with python to find the location of the user based on the ip address of the user (only if the user has given permission)
 - **IPIFY:** Can give easily gives us the client's IP address. We have used this API in conjunction with IPAPI to get the client's location in longitude and latitude form.
 - **Dark Sky API:** Weather API used to retrieve data for the user depending on the user's location
- SQLite Database
 - Users will have a username and a password as well as their x and y coordinates to store their location.
 - Every move in Pokemon will have a name, the number of uses it has left and the max number of uses that move can have, and the damage that that move does to the enemy.
 - All items will have a name, a number representing how many a player has, and the id of the user who owns that item.
 - All Pokemon will have a name, description, type, moves, id of the player that owns it, if the player current has the specific Pokemon in their roster of 6, the level and experience points, and the health.
- Bootstrap: Front-end CSS

Why Bootstrap?

- most of the members are adept at using bootstrap already
- documentation for bootstrap is easier to read, making it easier to use
- bootstrap is much easier to theme (especially with our low time limit)








Breakdown of Core Tasks:








| | |
|-------|---|
| Alex | Project manager; Signup/login; weather affecting pokemon occurrence |
| Jason | Pokemon trainer movement on map; encountering pokemon; database |
| Karen | Pokemon setup; feeding and healing |
| Imad | Battle Pokemon; Capture Pokemon; item drops |


















Timeline:








| | |
|------------|---|
| 01/08/2018 | Fix design doc |
| 01/09/2018 | Login/signup; create database; CSS |
| 01/10/2018 | Starter Pokemon; movement on map; Pokemon battle |
| 01/11/2018 | Catch-up day |
| 01/12/2018 | Capture Pokemon; Item drops; Tamagotchi feature; weather effect |
| 01/13/2018 | Fine-tune code |
| 01/14/2018 | Review code |

Database Schema

| users | | | |
|---|---------------|---------|---|
|  | id | integer |  |
| | username | string |  |
| | password_hash | string |  |
| | x_cor | integer |  |
| | y_cor | integer |  |
|  Add field | | | |

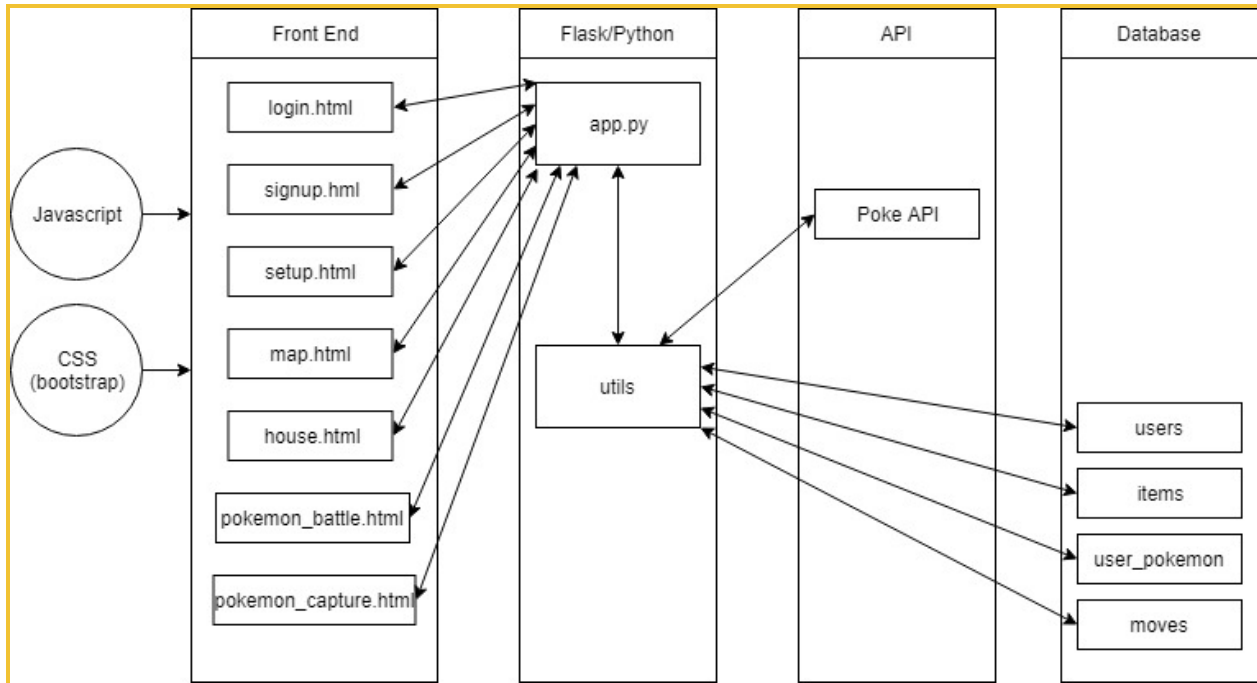
| items | | | |
|---|----------|---------|---|
|  | id | integer |  |
| | name | string |  |
| | type | string |  |
| | quantity | integer |  |
| | user_id | integer |  |
|  Add field | | | |

| user_pokemons | | | |
|---|------------|---------|---|
|  | id | integer |  |
| | user_id | integer |  |
| | name | string |  |
| | type | string |  |
| | max_health | integer |  |
| | health | integer |  |
| | move_1_id | integer |  |
| | move_2_id | integer |  |
| | move_3_id | integer |  |
| | move_4_id | integer |  |
| | exp | integer |  |
| | next_exp | integer |  |
| | level | integer |  |
| | player_has | boolean |  |
| | desciption | string |  |
|  Add field | | | |

| moves | | | |
|---|----------|---------|---|
|  | id | integer |  |
| | name | string |  |
| | uses | integer |  |
| | max_uses | integer |  |
| | damage | integer |  |
|  Add field | | | |

player_has represents if the player has this particular Pokemon in the roster of 6.

Component Map



Front End Site Map

