

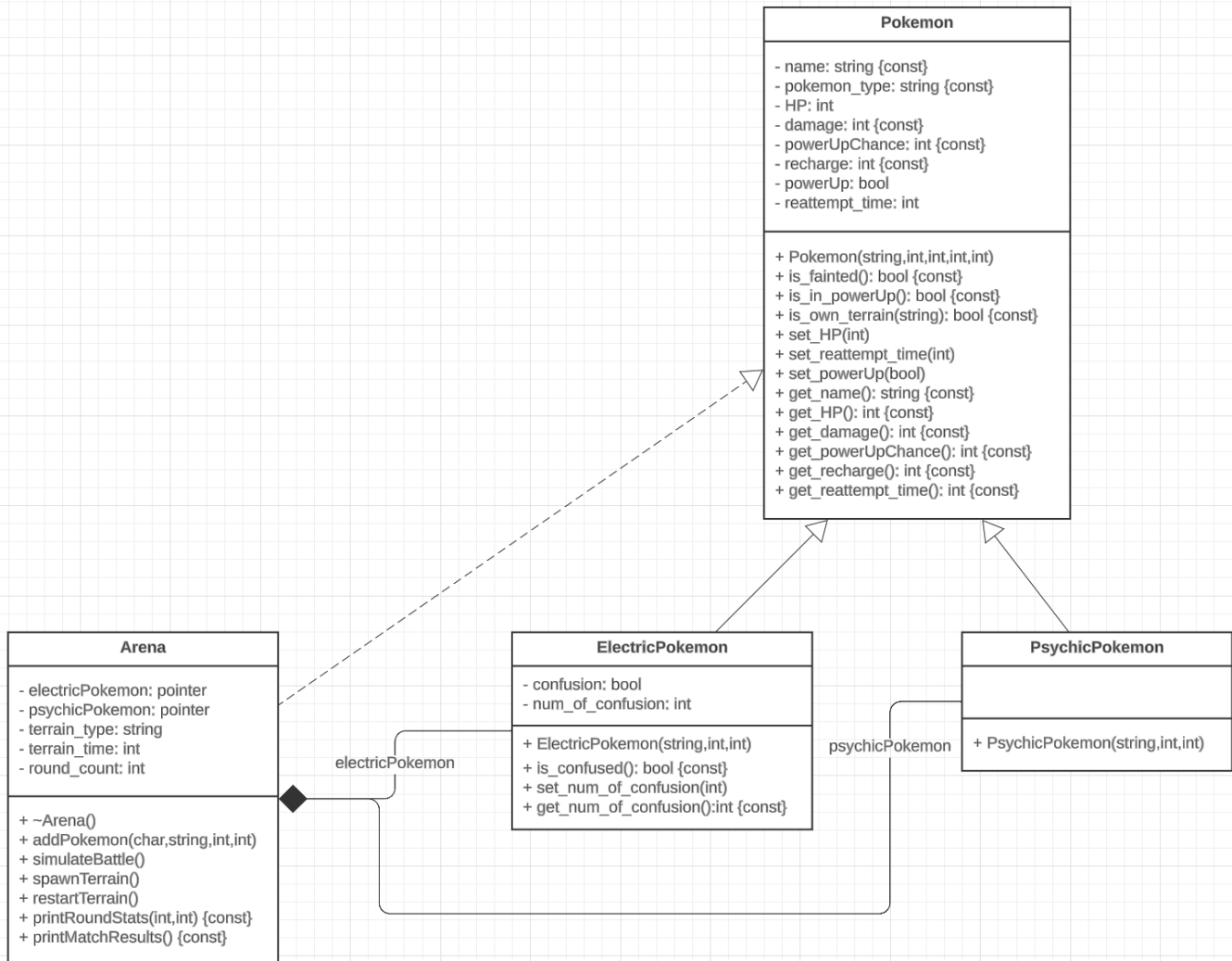
BLG 252E ASSIGNMENT 3

Part 3 - Report

UML class diagram

UML Diagram

Özkan Gezmiş



- **ElectricPokemon and PsychicPokemon is inherited from Pokemon.** ElectricPokemon and PsychicPokemon are also Pokemon.
- Access specifier for inheritance is **public**; therefore, ElectricPokemon and PsychicPokemon classes can use all public member functions of the Pokemon class.
- Arena has a ElectricPokemon and PsychicPokemon. When Arena is created, initially electricPokemon and psychicPokemon pointers are NULLs. Pokemons are created in the addPokemon function. Arena is owner and Pokemons can't exist without Arena. **Therefore, relations between Arena object and ElectricPokemon, PsychicPokemon objects is composition.**
- I didn't use any overriding or overloading in the code other than constructors.

- Arena object has electricPokemon and psychicPokemon. With the addPokemon function we create Pokemons in Arena. So that in Arena object electricPokemon and psychicPokemon can call the methods of Pokemon object. **In this way, the attribute visibility is established.**