

Practical Work 2 - TCP

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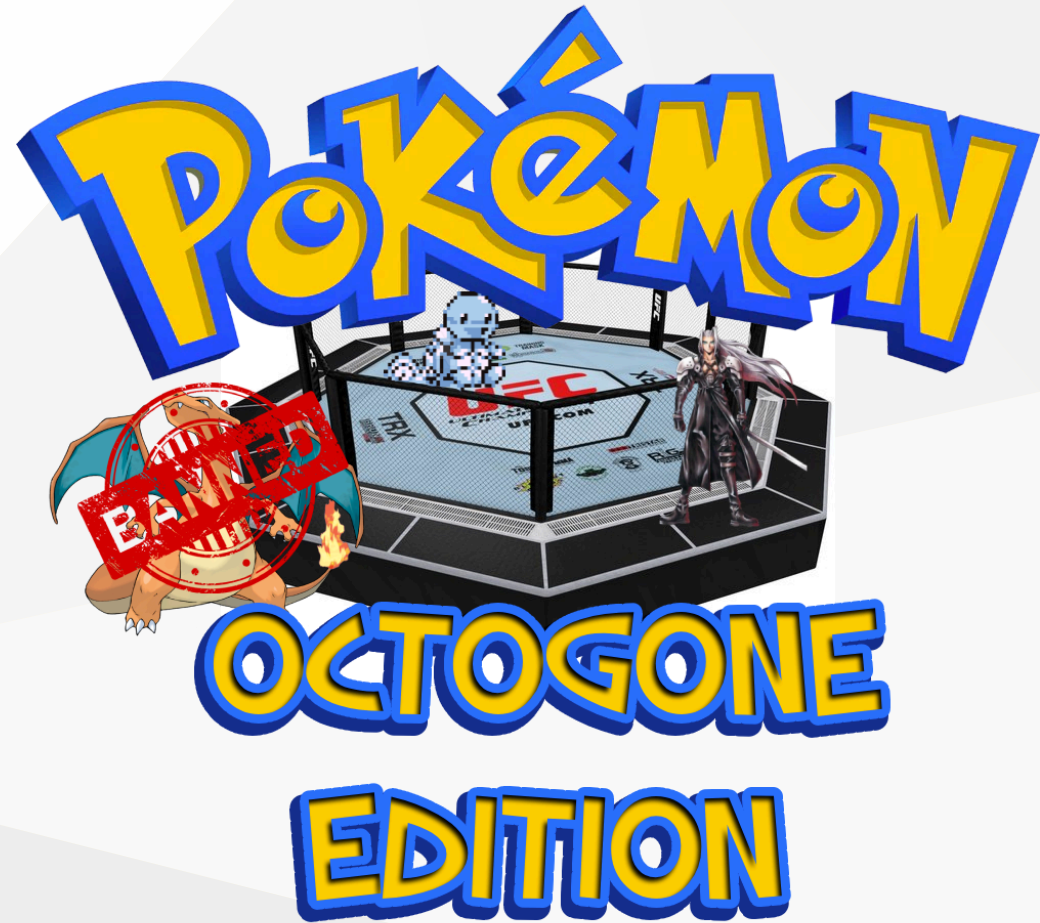
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DAI-TIC-C

Pokémon Octogone édition

Outline

- **Objective:** Create a program who uses TCP sockets in Java
- **Project Goal:** Learn how to use sockets and threads in Java and create a protocol



How did we split the work

Dani : Sockets, Connections, Trainer/Pokémon implementation, Menus & Docker

Nicolas : Battle, Refractoring & protocol design

What did we used

- **Language:** Java
- **Tools:** Maven, Git, picoCLI & Docker

Key Features

- **Pokédex** : Add and use any Pokémon (Yes, even Sephiroth)
- **Teams** : Make a team from the Pokémons available
- **BATTLES !** : 1v1 a friend via Internet

Pokédex

- Filled with Pokémons
- Loaded and saved in a .txt files

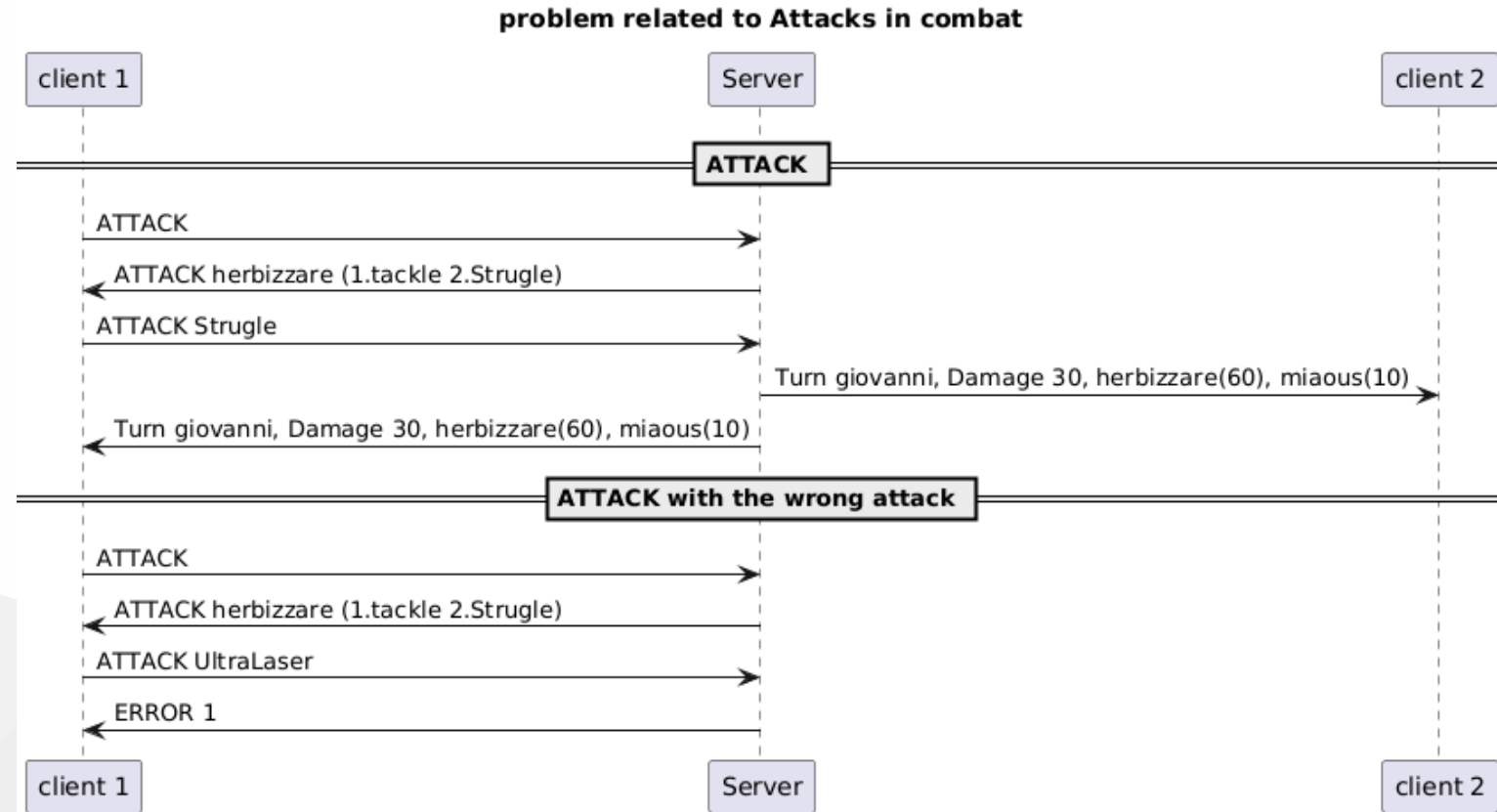
Trainer

- Has a team
- Name
- Money



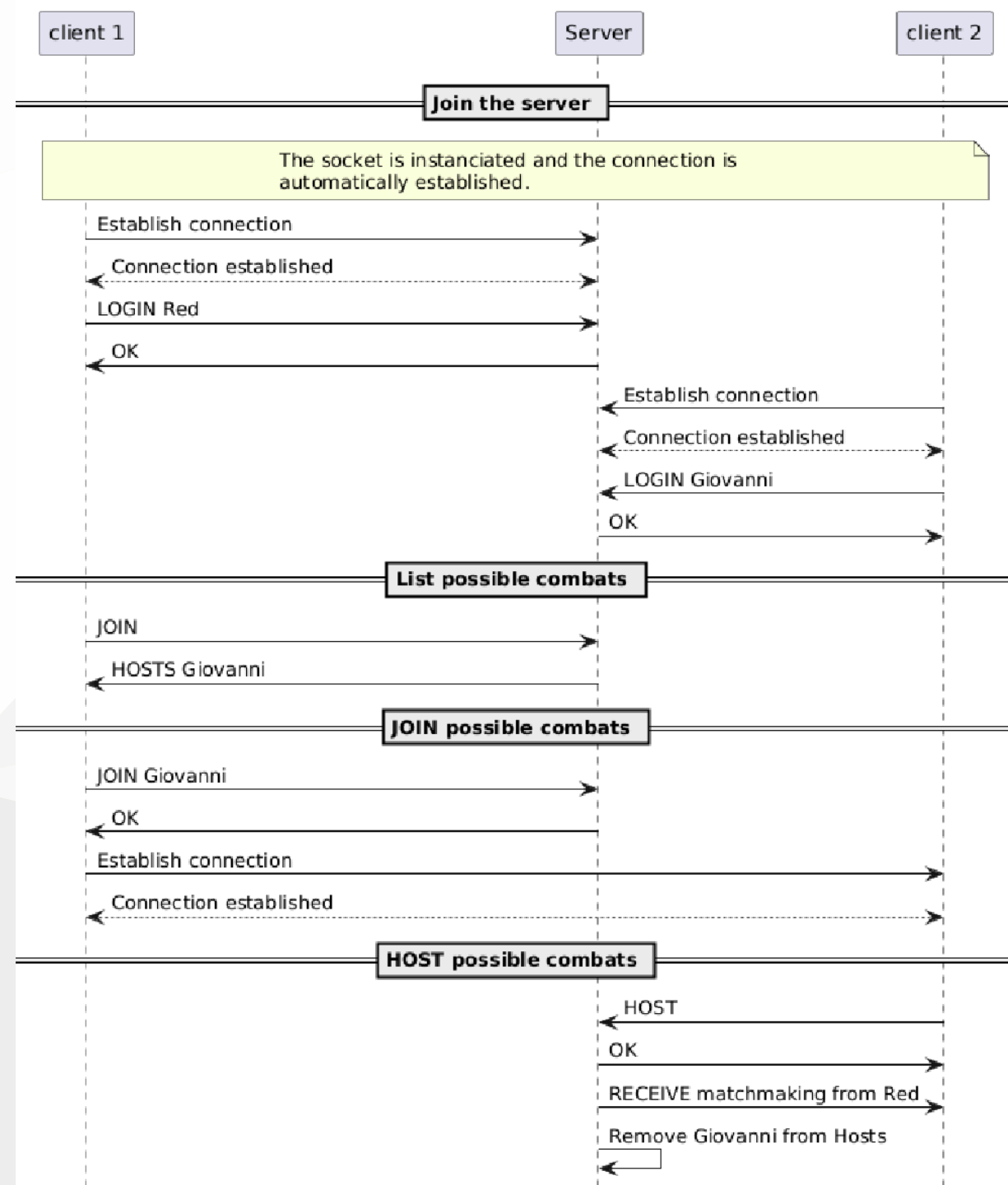
Protocol

- The port it uses is the port number 28500.

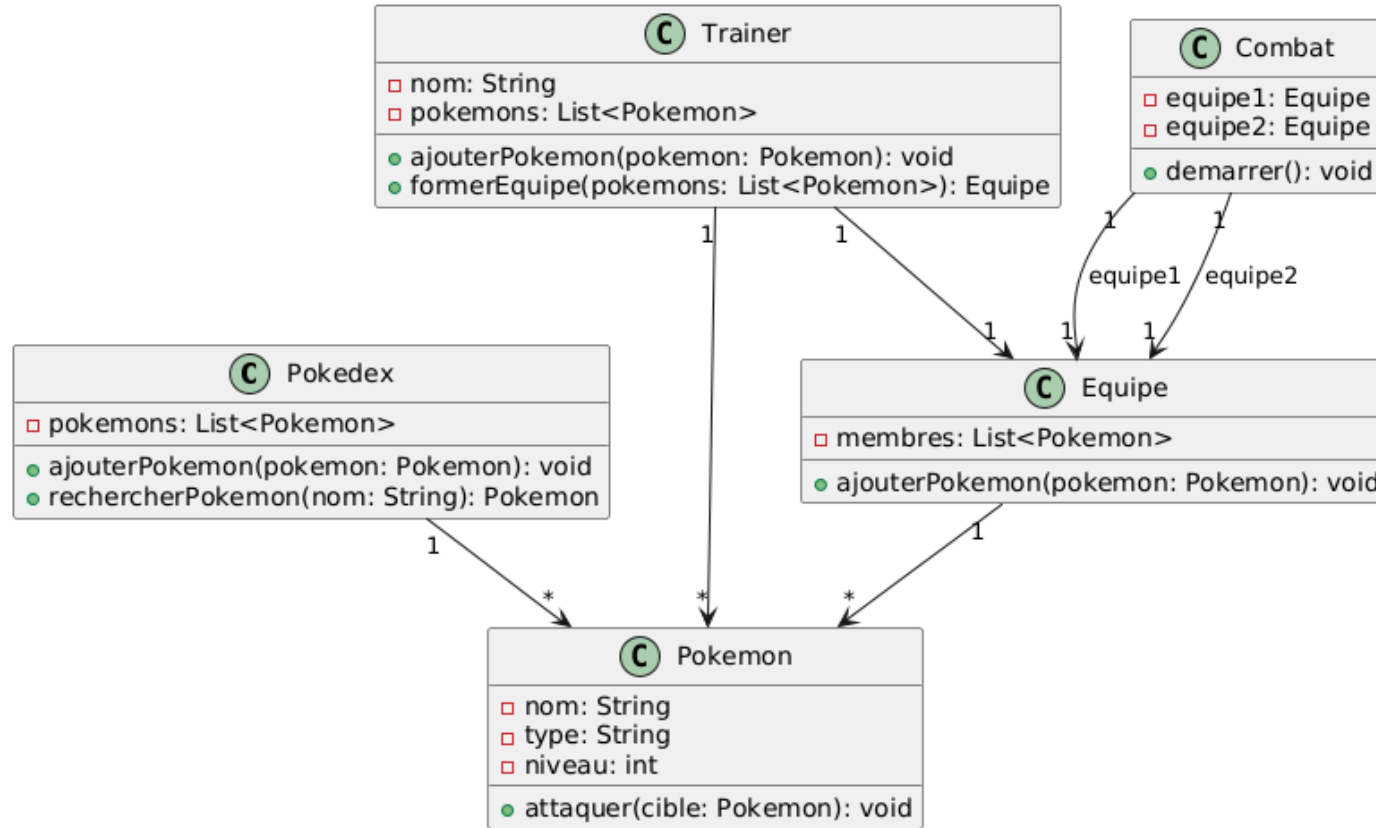


Protocol

- Use the command **<HOST>** to create a lobby.
- Use the command **<JOIN> <hostId>** to join a lobby.



UML



Usage

Docker

- Server
- Client

Jar [Optional]

- Server
- Client

Things we want to improve

- Create a custom trainer and save it
- Have a GUI
- Add sprites
- Add audio

Demonstration

Questions ?

Thank you for your attention

Acknowledgments

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