

# **Title: Pokemon Team Management System**

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## **Trainer:**

- Registers and manages their profile
- Can create, view, update, or delete teams
- Can view teams they own and the Pokemon in those teams

## **Team:**

- Belongs to a specific trainer via ID
- Contains up to six Pokemons
- Can be created, viewed, updated, or deleted by the trainer
- Stores Team name and Trainer

## **Pokemon:**

- Contains Pokemon information (name, type)
- Belongs to a specific team
- Can be added, viewed, updated, or removed from teams
- Can exist independently – can be unassigned or reassigned to different teams
- Core entity in the system

## **Basic Workflow:**

- Trainer registers and creates their profile
- Trainer creates teams to organize their Pokemon
- Trainer adds Pokemon to their teams
- Trainer views, updates, and manages their teams and Pokemon
- System tracks team ownership and Pokemon assignments

## **Detailed Workflow:**

### **1. Trainer Registration & Management**

- Trainer registers in the system (POST /trainers)
- System creates trainer profile with unique trainer\_id
- Trainer can view their profile (GET /trainers/:id)
- Trainer can update their information (PUT /trainers/:id)

## 2. Team Creation

- Trainer creates a new team (POST /teams)
- Provides team name and their trainer\_id
- System assigns unique team\_id to the new team
- Team is now linked to the trainer

## 3. Adding Pokemon to Team

- Trainer adds Pokemon to their team (POST /pokemon)
- Provides Pokemon details (name, type) and the team\_id
- Pokemon is now linked to the specific team
- Trainer can add multiple Pokemon to the team

## 4. View & Update Operations

- Trainer views all their teams (GET /teams/trainer/:trainer\_id)
- Trainer views specific team details (GET /teams/:id)
- Trainer views Pokemon in a team (through team details)
- Trainer updates team name (PUT /teams/:id)
- Trainer updates Pokemon information (PUT /pokemon/:id)
- Trainer can reassign Pokemon to different teams (PUT /pokemon/:id - update team\_id)

## 5. Removal Operations

- Trainer removes Pokemon from team (DELETE /pokemon/:id)
- Trainer deletes entire team (DELETE /teams/:id)
- When team is deleted, Pokemon remain in the system (either unassigned or moved to other teams)
- Trainer can delete Pokemon permanently (DELETE /pokemon/:id)
- Trainer can delete their profile (DELETE /trainers/:id)

Trainer	Team	Pokemon
- trainer_id	- team_id	- pokemon_id
- trainer_name	- team_name	- name
- region	- trainer_id	- type
+ getAllTrainers()	+ getAllTeams()	+ getAllPokemon()
+ getTrainerById()	+ getTeamById()	+ getPokemonById()
+ addTrainer()	+ getTeamsByTrainer()	+ addPokemon()
+ updateTrainer()	+ addTeam()	+ updatePokemon()
+ deleteTrainer()	+ updateTeam()	+ deletePokemon()
+ deleteTeam()	+-----+	+-----+