POKEMON
Data Flow Diagram (DFD)

Player

Ash's Details

Enter Name

Trainers

Pikachu's Details

Pokedex

1.0
Get
Players
Profile

Player's
Profile

Player's Profile

Wild
Pokemon

2.0
Generate
Wild
Encounters

Results

Wild Encounters

Trainer's
Pokemon

3.0
Update
Stats from
Wild
Encounter

Results

Wild Encounter Results

Random
Trainer

Player's Profile

4.0
Generate
Tournament
Battles

Results

Training Stats

Results

5.0
Update
Stats from
Battle

Tournament Battles

Battle Results

Player's
Current Profile

Request
Player Report

6.0
Generate
Player
Report

Player

Player Report
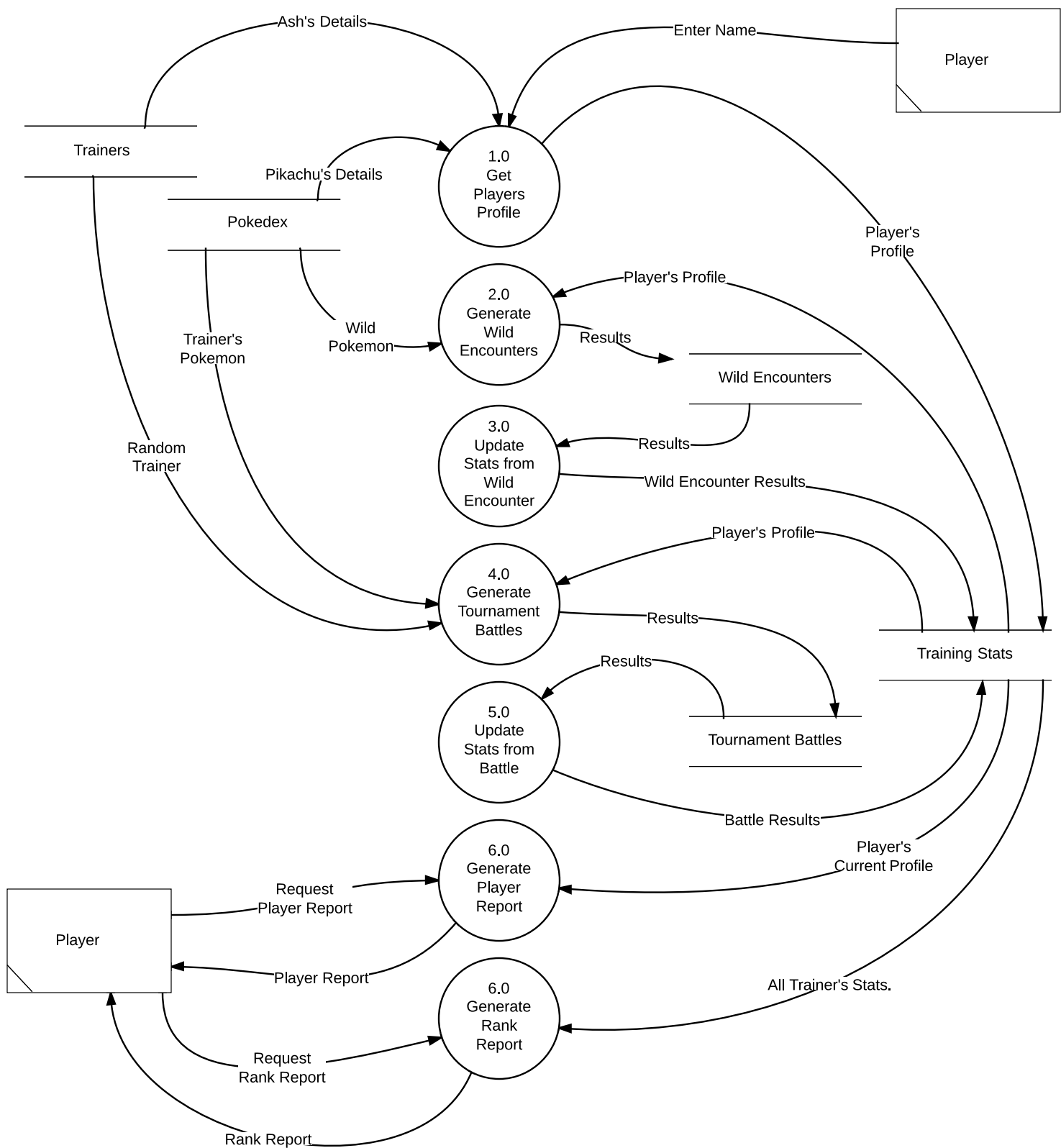
Request
Rank Report

6.0
Generate
Rank
Report

All Trainer's Stats.

Rank Report

POKEMON
Entity Relationship Diagram (ERD)

LOCATIONS (<u>Region_ID</u>, Region, Capital, Biome)
TRAINERS (<u>Trainer_ID</u>, Name, Gym, Specialist_Type, Type_1, Type_2, Gender, Region_ID(FK), Hometown)
POKEDEX (<u>Pokedex_ID</u>, Species, Type, Attack, Defense, Spec_Attack, Spec_Defense, XP, Health, Location_ID(FK), Captured_By(FK))
BATTLES (<u>Battles_ID</u>, Timestamp, Pokedex_ID(FK), Trainer_ID(FK), Region_ID(FK), Home_Adv, Result)
ENCOUNTERS (<u>Encounters_ID</u>, Timestamp, Pokedex_ID(FK), Region_ID(FK), Home_Adv, Result)
TRAINING (<u>Trainer_ID</u>, <u>Pokedex_ID</u>, Count_Encounters, Count_Battles, Attack, Defense, Spec_Attack, Spec_Defense, XP, Health)