

Alt(Alternative) Pokémon

By: Sayed Kibria

(sayed.kibria45@login.cuny.edu)

Supervisor: Gulshan Meem

(Gulshanmeem60@gmail.com)

Goal

This project is a 2D top-down RPG inspired by the classic Pokémon franchise but with a twist: instead of turn-based battles, players engage in real-time combat, actively controlling their Pokémon during fights. The game maintains core features like exploration, wild Pokémon encounters, and trainer battles but changes the experience through action-based mechanics. This project explores real-time systems in monster-taming game, focusing on responsive controls, and AI enemy behaviors.



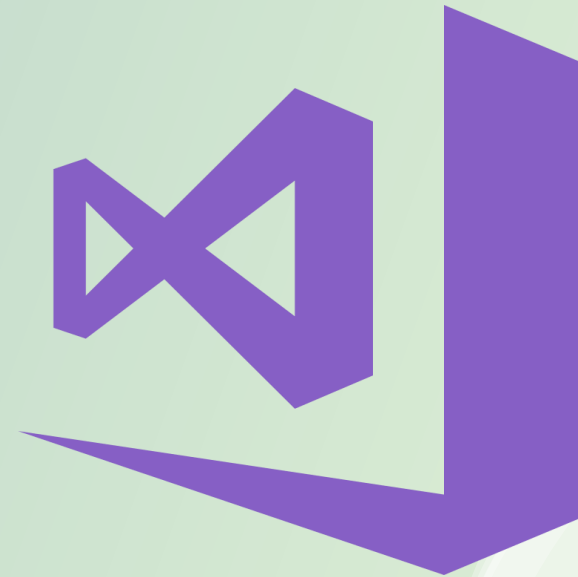
Tool

Unity

C# (for scripting)

Visual studio

Pixilart (to make pixel art)



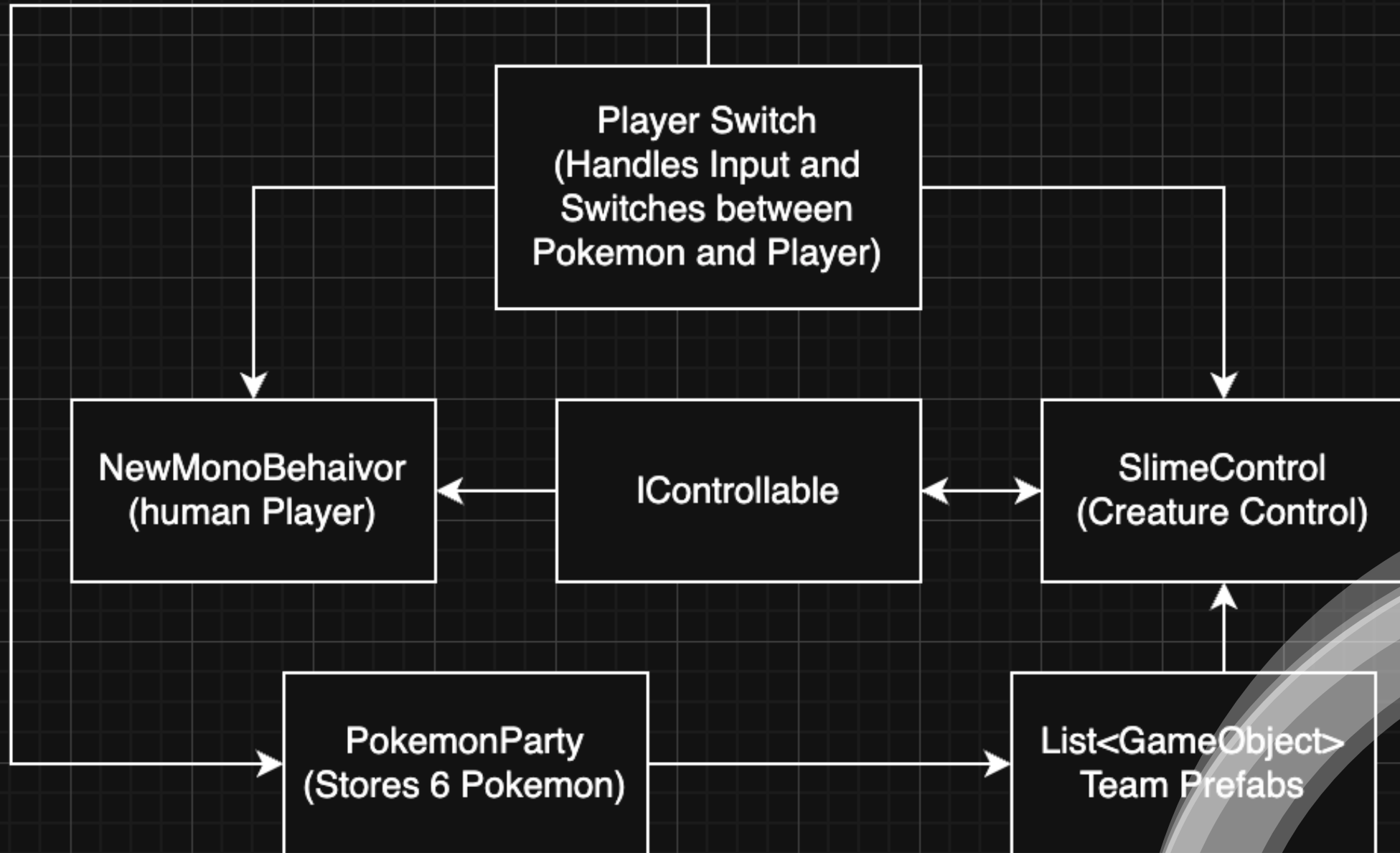
Data Source

Pokemondb Pokedex (for stats and what attack Pokémon can use)

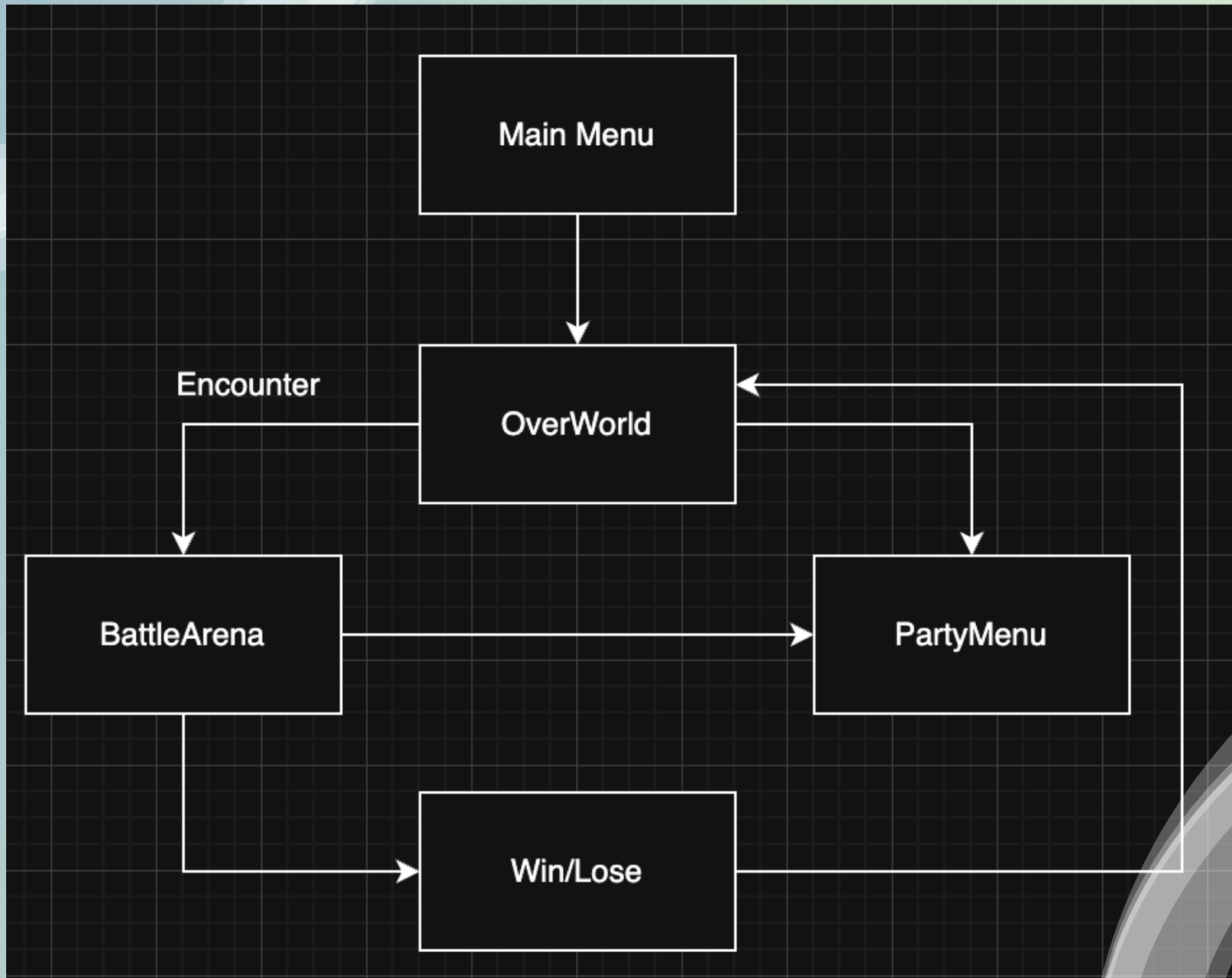
Spite and Assets (from online open-sources)



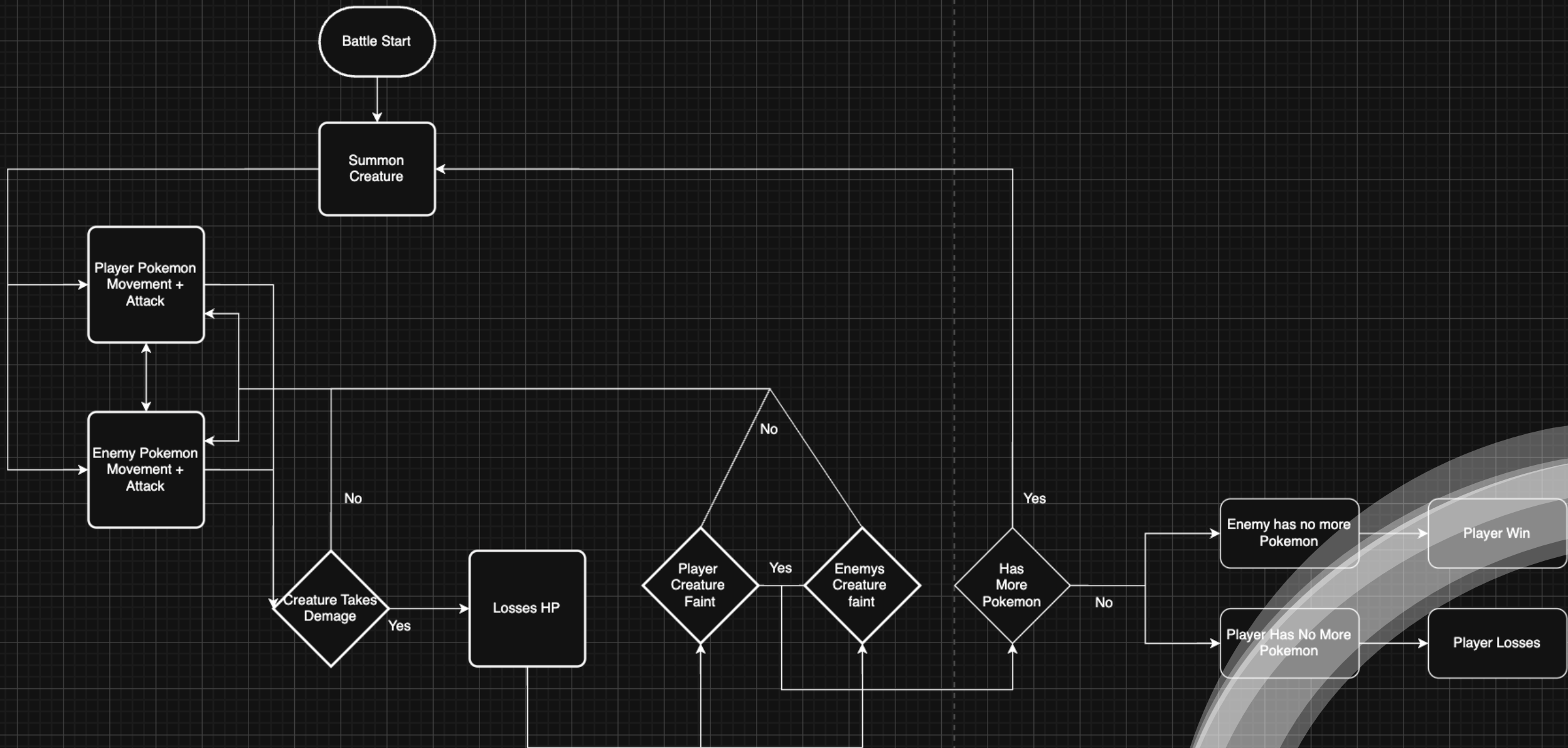
System Overview



Scene Transition



Battle Flow



Use Case 1: Trainer Battle

Input: Player approaches an NPC Trainer on the map.

Process: Dialogue starts → Scene transitions to battle → Enemy Trainer sends out Pokémon → AI uses logic.

Output: Player must defeat all of the trainer's Pokémon; receives rewards or progression if successful.

Use Case 2: Summon Pokémon from Party

Input: Player presses number key (1–6) during battle.

Process: PlayerSwitcher gets Pokémon from the party → Player character is disabled → Pokémon is spawned → Control is given to Pokémon.

Output: Player controls the summoned Pokémon in real-time.

Use Case 3: Real-Time Combat Attack

Input: Player presses an attack key while controlling a Pokémon.

Process: Attack animation plays → System checks if enemy is in range → Enemy takes damage if hit.

Output: Enemy loses HP; possibly defeated if HP reaches 0.

Tentative Schedule

Basic Battle Logic: 15 hours

attack. Damage. Health. Hit feedback.

Battle Arena: 15 hours

Arena map. Transition to battle arena when encountering npc. Arena boundaries

Enemy AI: 15 hours

Chasing. Attacking. Avoiding. Hit feedback

Win/Loss conditioning + fainting: 15 hours

Show win/lose states. Handle KO events properly

Tentative Schedule

Ranged vs Melee Attacks + Stats System: 15 hours

Implement ranged and melee attacks. Add stat value(attack, defense, special attack, special defense).

Type System + Damage Calculation: 15 hours

Add Pokémon types. Damage formula

Dodge/Dash Mechanics + Combat Fluidity: 15 hours

Add dash move with cooldown. Temporary invincibility. Balance combat movement speed.

Creature Switching & Party Expansion: 15 hours

Mid-combat swap and cooldown. Party UI. Store current state of pokemon

Tentative Schedule

Final Implementation: 15 hours

Add basic main menu. Add few more Pokémon. Final demo preparation.