PokeGame

The intent of this project is to create a Pokémon style game where a player can navigate a map with a mouse and keyboard and interact with Pokémon. The player should be able to battle Pokémon it finds, capture Pokémon, and collect items. A battle should be a situation where it takes over the screen and is essentially a mini game. There should be different Pokémon available, and they should have unique attributes.

To complete this project, I will need to use the Pygame library, and a tile map editor called ‘Tiled’. I will find opensource game art which is free to use, I will use extensive object-oriented programming, and graphical programming. The above descriptions are a loose description of the original ideas and is likely subject to extensive change as the project progresses.

The progress of this project will be logged using git version control, and will be stored in a repository on my computer and on GitHub. This planning document will be updated as I complete certain features, and will be adjusted. Upon completion, several versions of this document will be kept.

Feature Plan

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| --- | --- | --- |
| Feature | Target Date | Date Completed |
| A basic window and instance of Pygame is running, with correct files set up   * A window displays * It can be exited by clicking x or on esc key | May 24th, 2018 | May24th, 2018 |
| A basic player class has been made   * Player can move around the screen * Player has a graphic | May 25th, 2018 | May 24th, 2018 |
| A map is implemented   * A map has bee created using Tiled * A map has been loaded successfully into the game | May 29th, 2018 | May 25th, 2018 |
| A camera has been created, linked to player   * The camera follows the player * The camera stops at edged of screen | May 30th, 2018 | May 26th, 2018 |
| Player can visually rotate when changing direction   * Looks smooth * Does not interfere with planned collisions | May 28th, 2018 | May 27th, 2018 |
| Collisions are working   * Collisions with map and player * Collisions are not glitchy | May 31st, 2018 | May 30th, 2018 |
| Debug Mode added   * Player’s hit\_rect outlined * Wall hit\_rects outlined | May 31st, 2018 | May 30th, 2018 |
| Pokémon are added   * There are multiple Pokémon moving on the map * There are collisions between Pokémon and player | June 1st, 2018 | May 31st, 2018 |
| A basic instance of a battle is made, executed, returns to main game   * Should allow the user to win or lose * Should allow the user to capture the Pokémon | June 6th, 2018 |  |
| Different Pokémon are added   * Inheritance * Different types | June 8th, 2018 |  |
| Pokémon can level up   * They have moves * They have stats | June 11th, 2018 |  |
| There is a shop   * Player can buy Pokémon * Player can buy upgrades | June 14th, 2018 |  |

Week 1 Notes:

So far progress has been steady, and several features were completed before their deadlines. When adding the player movement, the player’s graphic did not rotate to match the direction of rotation of movement. This is a new goal which was added at the end of this week, and should be completed the start of next week before moving on to collisions and adding Pokémon. Current project size: ~170 lines across 4 files. I am optimistic that I will be able to complete the planned features of the game early, and add even more.

Week 2 Notes:

Progress has continued ahead of schedule, and collisions were added successfully, Pokémon were added with an image I drew in Photoshop, the Pokémon move around the map and collide with the trees. When the player touches the Pokémon, a new screen is loaded when the player ‘battles’ the Pokémon. This battle consists of both sprites moving until the player touches the Pokémon, then the Pokémon dies, and the player returns to the main map. Currently there is a bug where the Pokémon can move through some walls on the battle map. Next week I intend to add a way to capture Pokémon instead of killing them, and let the player use these Pokémon.