Problem

We (the customers) wish to create a videogame competitor to Nintendo’s Pokémon series with our own creative twists. These ideas include capturing spirits and infusing them into armor to use in a RPG style combat system. We (the customers) also want the game to be website based and have a way for multiplayer to be possible in the future.

Objectives

Our objectives for this project are the following:

1. Create a functional demo of the game.
2. Create a website to run said demo on.
3. Create online communication between players.
4. When others are completed, expand the game demo to a functional game.

Functional Requirements

1. The save data for the game should automatically load once a user logs into the website.
2. The user should be able to enter inputs for the functions needed for the game including movement, talking, checking their inventory, and other functions requested in the future.
3. When the user logs out of the website, the game should be saved before the logout is completed.
4. Users should be able to connect to one another for multiplayer purposes.

Nonfunctional Requirements

1. The user should be shown their available inputs early into the game through a tutorial or a “help” tab in their inventory.
2. The user should be able to change what keys are used for specific inputs to allow more ease for users used to other input layouts. This can be done through an “options” tab in the inventory.
3. A user’s save data should be kept safe within the website and should have at least 1 backup save of the files to avoid as much risk of file corruption
4. Response time on user inputs should be kept low at least less than 10 milliseconds per input.
5. The website should be up 24 hours a day to ensure players can still access the game.
6. The game’s art assets should be unique to avoid legal troubles.

Target Environment

All users should be able to access the website with our game regardless of the web browser they use. Please contact us again if additional requirements are needed such as accepting cookies among other technical aspects.