

The game project is fully functional and bug-free, and it includes all the extensions required for the final project as follows:

- Sounds for jump, reward, kill, and level complete features.
- Factory Pattern to create platforms.
- Constructor Function to create enemies.

Moreover, the following features have also been incorporated into the project:

- Font extension for an appealing font.
- Constructor Function for creating particles resulting in a fireworks display upon completing the quest.

While executing the sound for completing the level, I faced an issue where the sound was being played repeatedly in a loop, with only the opening note of the `fireworks.wav` being played. To debug this, I tried setting a timeout on the sound by executing the `sound.stop()` function after a couple of seconds, but the problem persisted, with only the opening note being played while the sound did not stop. To fix this, I had to set a variable `fireworksSoundPlayed = false` in the `draw()` function, which is set to `true` only when `flagpole.isReached`.

The project is complete, not only with the base functionality and extensions, but also with additional features like custom fonts and fireworks displays, which enhance the overall graphics and aesthetics. The code is well implemented, properly indented, and well-organized, with consistent and logical variable naming.

In this game project, I learned and practiced a number of programming concepts and techniques in general, as well as specific concepts related to p5.js. However, with minor syntax changes, most of these concepts and techniques are applicable to other programming languages as well.