Video Game: Punchman

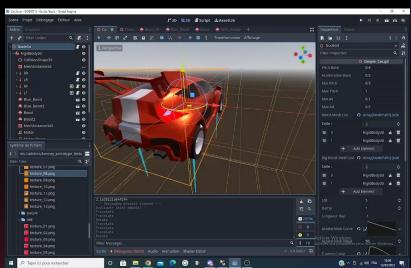
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Introduction

- Purpose of the Project:
 - Try something different from what we have learned
 - We wanted to do a small 2D Video Game to have some experience in game development.
 - To understand how Game Development process looks like

Software

GoDot 4





Last Semester

- Gave an idea of what our video game was going to look like
- Plans about what to add to our project
 - Character & enemies movement/animations
 - Database
 - Score system
 - Different UI screens

What didn't get added

- The Database
 - Software for this: Sllent Wolf
 - It couldn't get added because the leaderboard it was supposed to come with wasn't working together with Godot 4. It was not allowing the user to save their score and name to the database properly.
- Leaderboard
 - Software for this: Sllent Wolf
 - It wasn't able to be added due to compatibility issues with this and Godot 4. It wasn't able to get the scores from the database.
- Pause Menu
 - Wasn't able to connect the pause menu with the main game

Character & enemies movements

 Since character and enemies are vital to make a video game, we had to make sure that they were interaction accordingly.





Character & Enemies Code

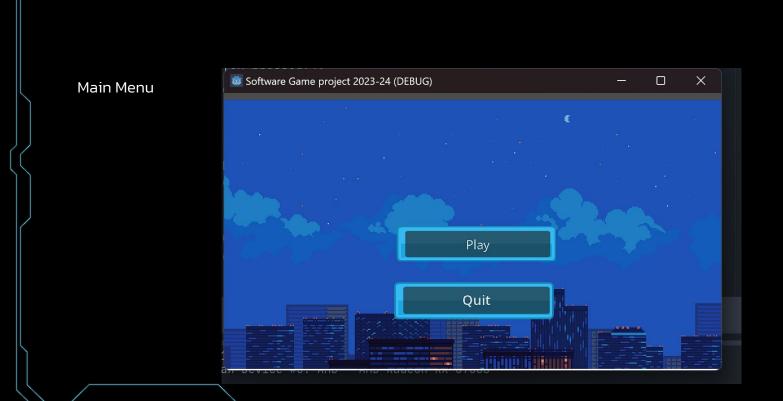
```
1 extends CharacterBody2D
     @export var Speed : float = 200.0
     @onready var state_machine : CharacterStateMachine = $CharacterStateMachine
var gravity = ProjectSettings.get_setting("physics/2d/default_gravity")
15 signal facing_direction_changed(facing_right : bool)
        animation tree.active = true
         direction = Input.get_vector("left", "right","up", "down")
         > velocity.x = direction.x * Speed
         > velocity.x = move toward(velocity.x. 0. Speed)
         animation tree.set("parameters/Move/blend position", direction.x)
```

mit_signal("facing_direction_changed",!sprite.flip_h)

Different UI screens

Game over Menu

Game Over
Press 'Space' to Return
To Main Menu



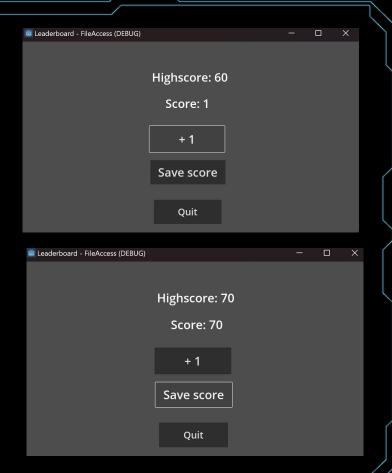
Code for the Ul screens

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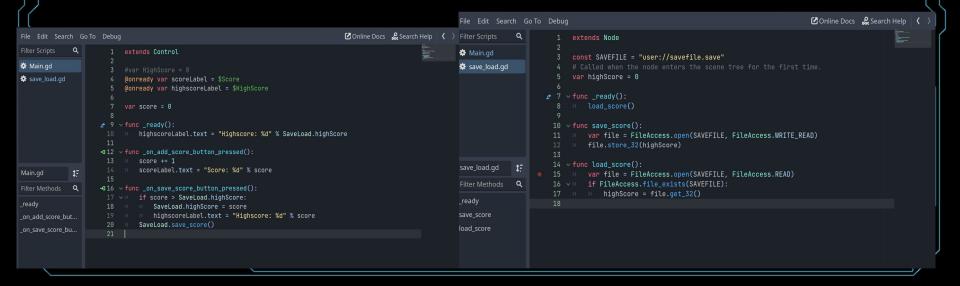
Main menu Code

Score System

- Due to the Database and Leaderboard not working, decided to use a feature on Godot called FileAccess.
- FileAccess
 - It allows use to be able to keep track of the high score on the system.
 - It will also show the players current score as they are playing the game.
 - If the user's score it more than the system's highscore, it will update the high score when the player loses.



Score System Code



Onto the Demo