Off the Ground Games

What Lies Beneath

Fiverr Milestone Overview - Milestone #5 Completion

Links

Imgur Link of Gifs: https://imgur.com/a/KjF4krZ

Github Link: https://github.com/ConnorBS/What-Lies-Beneath

Combat Logic

Using the Gun

In the _get_input() function, if gun_out_state, aim_state are true, and the "use_weapon" was just used, we take the bullet_ray and find the first collision in the ray it hits. It will check to see if the collision object is in the group of "Monster". If it is, the collision object has receive_damage called and blood spray to occur on that position.

For damage, base Gun Damage is determined by **PlayerInventory.get_gun_damage()**, which just pulls the equipment damage value. A damage multiplier is added if the collision the **bullert_ray** is intersecting with a collision in the group "**CriticalHit**".

Using the Crowbar

The Crowbar attack is an animation that's triggered in **_get_input()** by pressing the key for "**use_weapon**", while not in any other important states. This plays the animation and turns on monitoring for the crowbar's collision box. If no melee weapon is collected/equipped, and base attack is 0, no animation will be played.

If the melee collision box intersects with any areas, <code>check_hit(area)</code> is called. We track to see if we have already hit this monster before(avoiding hitting the same creature multiple times in one swing), and pass on the damage with <code>melee_hit(melee_damage)</code>, where the <code>mele_damage</code> is from <code>PlayerInventory.get_melee_damage()</code>. We also pass on the <code>blood_spray</code> like the gun function.

Taking Damage

Monster's have a small collision box around the creature's **GroundPosition**. If a collision box enters in this box, and is in the group "**Player**", we call **receive_damage(damage)** to the parent node of the colliding unit.

The player node then just passes on the value to **PlayerState.receive_damage(damage)** and allows for the new calculation in the AutoLoaded Script.

Death

When **PlayerState** updates the Player's health with **set_Player_Health(new_health)** is under or equal to 0, a signal is sent out from the **PlayerState** AutoLoad script called **"player_died"**.

Currently, on _ready() for the player node connects the AutoLoaded Player Node for "player_died" signal connected to _on_player_death().

This will set the dead flag to true, change the animation to "Death" and plays the death screen.

The **DeathScreen** is a simple canvas scene that plays a color hue'd fog, with just a simple script that makes the text flash, and reload the scene if the any key is pressed once the original tween is completed (and the "Press any key" is shown on the screen).

Syringe Logic

To use a Syringe you just need to call **PlayerInventory.use_syringe()**.

This then pulls a list of Syringes based off of the const array, **SYRINGE_LIST**. This list should be ordered from weakest to strongest.

After pulling out all the potential syringes to use in your inventory, it goes through the array and uses the first syringe that does not 'over heal' you (attempting to heal past your Max Health). If it must 'over heal' the player, it will use the lowest valued syringe.

Milestones

Player Movement Milestone (Commit 07baaef in Movement)

Tayor Wovernone Wilestone (Committee or Baacrim Wovernone)
☑ General Movement
☑ Walking
☑ Climb Ladder
☑ Fall/Drop
✓ Interactions
✓ Kneeling (Looting/Interacting)
✓ Interactable Object (Shimmer)
☑ Basic Combat
☑ While Aiming you can only Walking
☑ Button to pull out gun
☑ Game Camera
☑ Additional Features
☑ Project Image
☑ Level Change
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Menu System Milestone(Commit f218118 in Menu)
Silent hill style (scrolling inventory)
Options to: Use, Reload, Equip, Remove
☑ Gun Equipment Slot
Still Screenshot of the Came in the top left with colour overlay indicating
health

\checkmark	Memo - Journal Pages			
	✓ Left right over Journal Objects			
\leq	Important Objects			
	☑ Shows Keys			
	Shows Map Fragments			
	Options with: Music and Sound Control			
\checkmark	Global Player State			
	✓ Health			
Equipped Item				
Inventory				
Dialogue Milestone (Commit 8f60f51 in Dialog)				
☑ Dialog with branching options as well as object Inspection				
\checkmark	✓ Interact-able Objects in Level where it triggers dialogue			
\checkmark	☑ Interact-able Objects in Level where it triggers text above the player's head			
\checkmark	Save Dialog Choice Tree in Global Player State			
\checkmark	Additional Features			
Мар	System Milestone (Commit 632a2d6 in Map-System4)			
\checkmark	Collecting fragments of maps to reveal more of the map (accessible via the menu system)			
\checkmark	Metroid Style Map where map highlights which location you are in			
	✓ Track if you have been in the space			
	direction is easier to develop/manage			

Combat Milestone (Commit 840a9e2 in Combat-Milestone-5)

<u>~</u>	Player	Combat
	✓	Shooting Gun While Aiming
	\checkmark	Melee Animation
	\checkmark	Check on Hit/Provide Damage
	\checkmark	Taking damage
	\checkmark	HP Recovery (Syringe)
	\checkmark	Game Restart
<u> </u>	Player	Inventory
	✓	Check Equipped Item (Gun)

Enemies Milestone / Save Point Milestone

☐ Enemy Al Types Created			
□ The Lost – The remnants of a person. Doesn't focus on the player and shuffles on its own, until it sees the player and goes straight to the player. Takes 2-3 hits			
Rabid Dog – Sprints to player on line of sight.			
☐ Enemy Interactions			
 On Player Touch, Damages Player 			
☐ Attack Animations			
☐ Attack hitboxes			
☐ Critical hitbox damage			
☐ On Kill, Enemy is destroyed and removed			
☐ On Entry, Enemy States are stored and loaded back			
☐ Object in world where the character can save			
☐ Start Menu			
□ New Game			
☐ Load Game			
☐ Quit			
☐ On Death, Load Last Save			