





Previous Progress





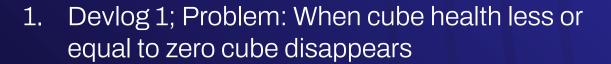


- 1. Worried but excited
- 2. Wanted to learn a lot
- 3. Open World Mechanics
- 4. Skyrim like aesthetic
- 5. Shifted to platformer,
- shooter, future technology, Doom









• 2. Devlog 2; Rocket Jump no working

3. Devlog 3; Health Bar not working after switching code to Al



The solution to this issue was that instead of setting the value of the health float from 1-100 instead I needed to set it from 0-1 meaning that a value such as 0.5 means that the enemy is at 50% health. This took me a minute to figure out as I thought the issue might have been due to the fact I had it originally set at around 60% in the designer menu for the progress bar but this was not the issue.

1 COS UNIDADO CARD

Before







Rocket Jump Not Working

After trying to figure out why my projectile was not hitting the ground for a while I decided to try and do the rocket jump on a first person map and was successful at implementing this. I decided to go through the collision information in the first person and see if there were any differences between my projectile and the default projectile. I figured out that for some reason the default scene root was causing the issue and after replacing it with the collision box the projectile was finally colliding with objects.

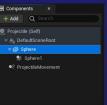
Before

After





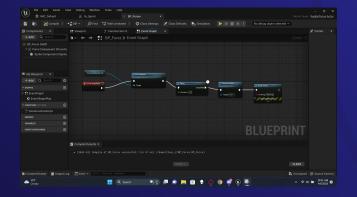


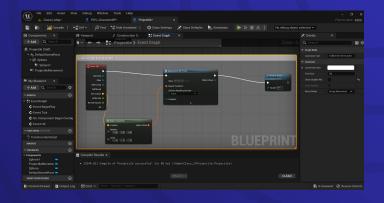


Before and After Rocket Jump



Before

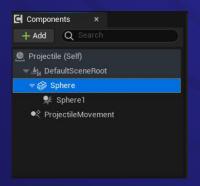






After

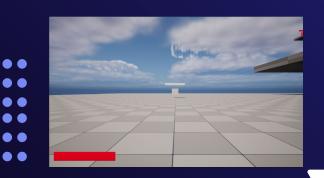


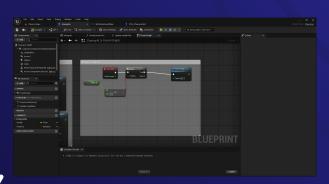


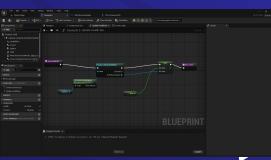
Health Bar not working after Switching to Al

I got the health bar to display by adding a widget into the AI as I had forgotten to add one when making it. I then was able to get the health to display and take damage by plugging in the correct health bar widget as I had the previous actors hooked in. Then I reset up the death code for the AI.

Before After



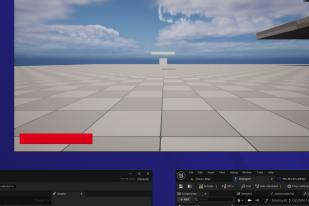




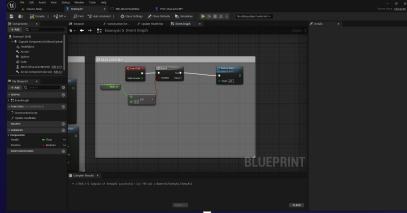
Before and After Al Health

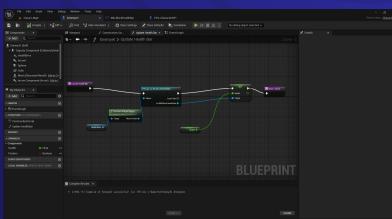


Before











- Ideas Change during development
- Blueprinting takes a lot of trial and error
- Basic mechanics can be quite complex
- Complex AI is hard









Assets and Attribution

Video Links

https://www.youtube.com/watch?v=O6qREGAZPoQ&t=866s

https://www.youtube.com/watch?v=YDOAo_4L2a8

(1308) How to Make a Rocket Jump Mechanic - UE4 - YouTube

https://youtu.be/BdRnYcrwctc

https://www.youtube.com/watch?v=5Xdnx3wPNLo&t=283s

https://www.youtube.com/watch?v=PwDHGhdDG k

https://www.youtube.com/watch?v=EQmIBHObtCs

People

Christian Wheeler

Josh Russ

Assets

Polar Sci-Fi Facility by 3DBrushWork

Basic Pickups VFX Set (Niagara) by Suppart

Doom - Grenade Launcher by rSquare

Buster Drone - by laVaDraGoN

Reticle - Adobe stocks



- Continue working on this project but with more weapons and reworking some systems
- Take skills learned and move forward
- Fully dive into the doom fast combat feeling

New Progress







- Had a better idea of what I wanted to accomplish
- 2. Expand on project
 - 3. Shift to third person
 - 4. New mechanics
 - + 5. Animations









2. Final Development; Implementing animations and sequencer cutscene

3. Final Development; Issues with asset packs



The main issues with the dodge was the dodge needed to be held rather then pressed and the speed for the dodge was not working





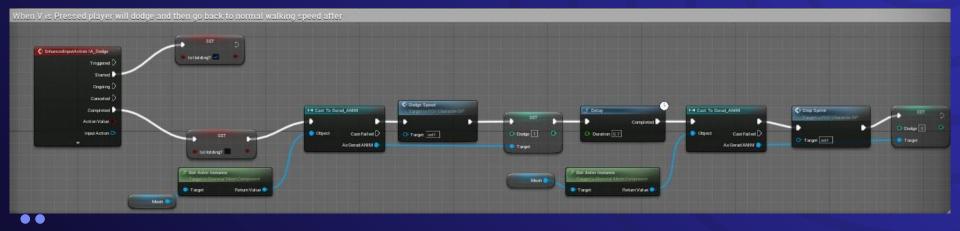


This issue was actually a bit more complicated than I would have liked. I looked up a video after trying to figure out how to do it myself with the nodes I knew. After watching a video on how to do click and press functions I was able to incorporate it into my own code after a bit of tweaking and it allowed me to click and my character dodge





Dodge Mechanic key pressed solution (Images)

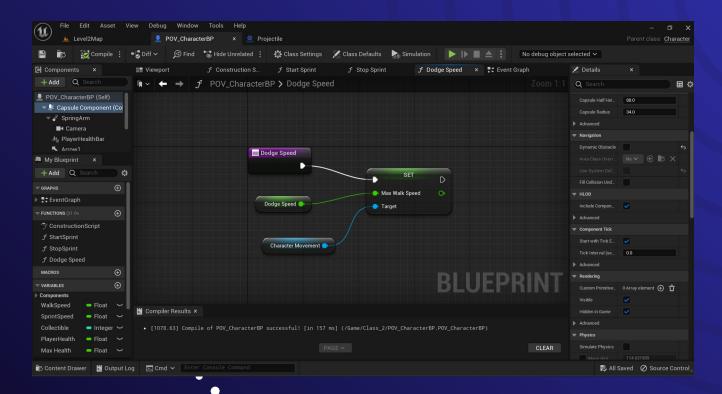


Dodge Mechanic speed solution

took a minute but was not to bad all I had to do was create a new movement variable just like walking or running and set that variable to movement when dodging

Dodge Mechanic speed solution (Images)



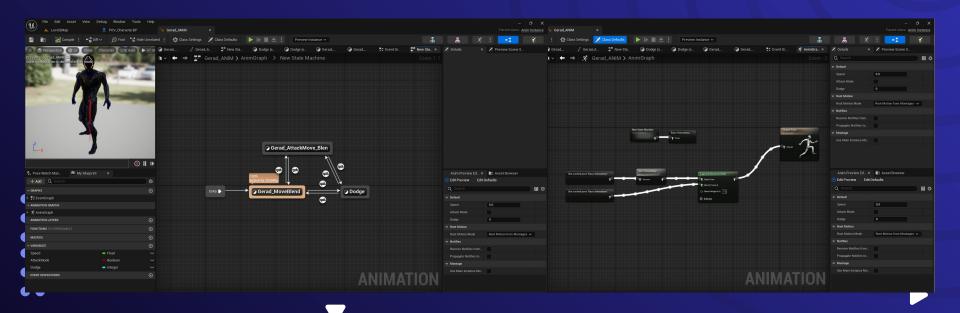


Animation and sequencer Issues

No specific issues with animations other then finding them and implementing animations that made sense. Multiple issues with sequencer such as not showing vfx when playing and disabling and re-enabling the HUD



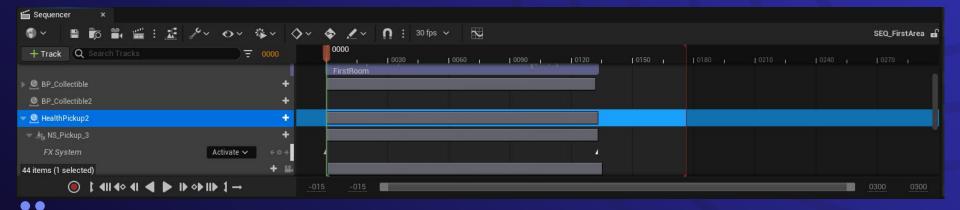




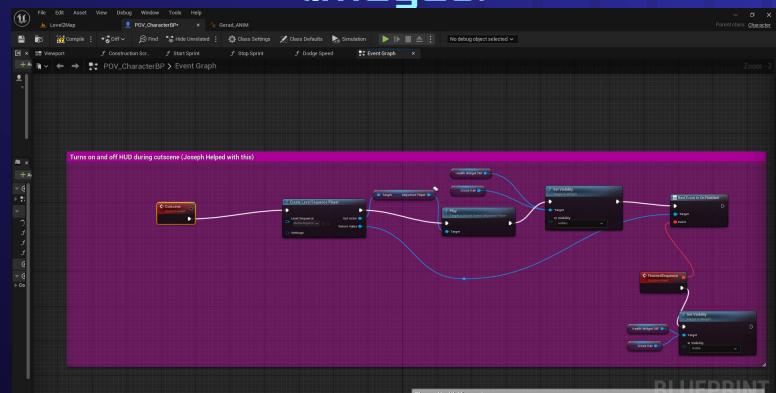
Sequencer Solutions

- The first issue was the VFX not showing up basically you need to add the VFX to the sequence then add the component underneath it and set the FX system which after disabling and re-enabling will appear.
- 2. The HUD issue was fixed by getting references to my HUD's and setting visibility to hidden when the sequence plays and visible when not playing (Joseph Helped)

Sequencer Solutions VPX (Images)



Sequencer Solutions HUD (Images)











Asset Packs Issues

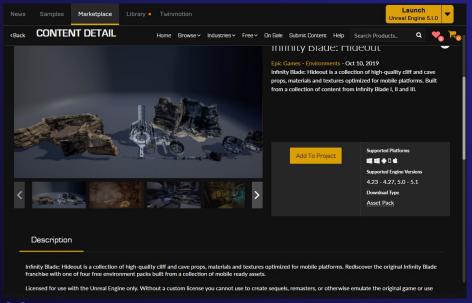
Multiple issues with Asset packs from them not working modular, to pivot points being off, and even severe lag issues causing computer to crash

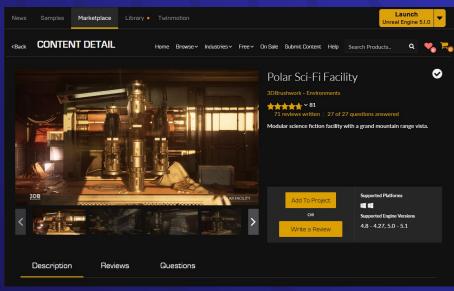
Asset Packs Solution

No true solution I tried multiple asset packs and many of them did not work like they are supposed to either due to age or collision issues. Spent 4 hours building out second level only to have it crash and having to scrap idea and work on animations and tightening mechanics >

Asset Packs Images











 Be flexible with assets and animations and don't be afraid to pivot if they are not good or do not seem to be working

Learned how to manage time and pinpoint major issues

Quality is better than quantity especially with mechanics

 Mechanics need to make sense for players to use them

Learned that I want to go into technical art





Assets and Attribution

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https://www.youtube.com/watch?v=PwDHGhdDG_k

https://www.youtube.com/watch?v=EQmIBHObtCs

https://www.youtube.com/watch?v=ZJLYhzQmeJI&t=307s

https://forums.unrealengine.com/t/how-do-i-reference-my-animation-blue-print-in-a-class/279566



Assets and Attribution

People

Christian Wheeler

Josh Russ

Joseph

Professor Nye

Snow Gillett

Belize Kosoko

Assets

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Basic Pickups VFX Set (Niagara) by Suppart

Doom - Grenade Launcher by rSquare

Sci-Fi Camera Drone by 3dsofsan (Sketchfab)

Reticle - Adobe stocks

Mixamo- Ely by K.Atienza and Alien Soldier



Next Steps

- Might Continue working on this but have another project planned for summer based on Orpheus and the play Hades
- Continue expanding skills not just in blueprints but also coding
- Learn more about VR/AR technologies and how to incorporate those into my workflow





Thank you!

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