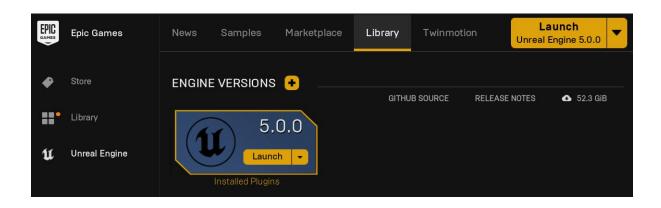
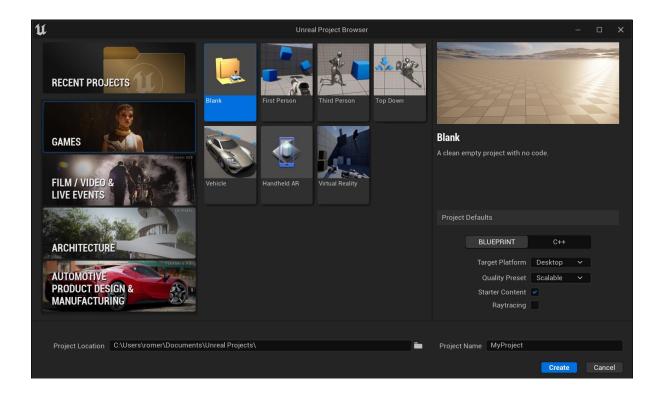
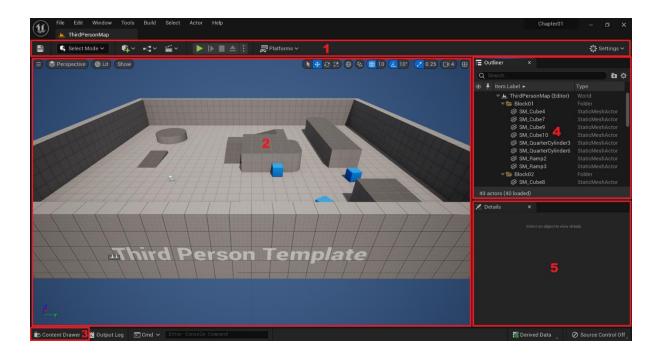
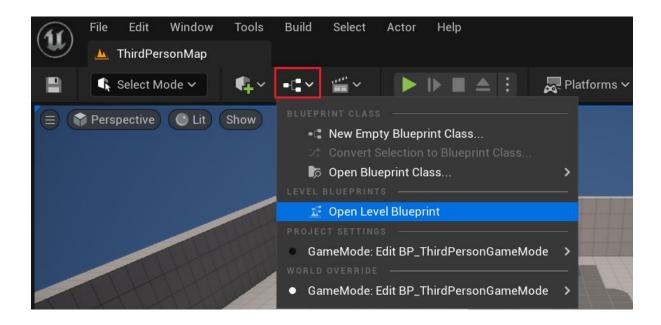
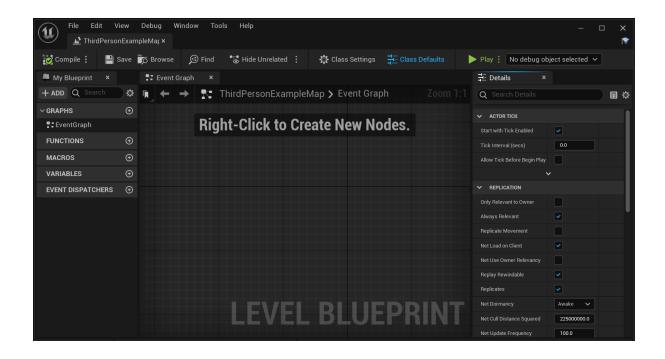
Chapter 1: Exploring the Blueprint Editor

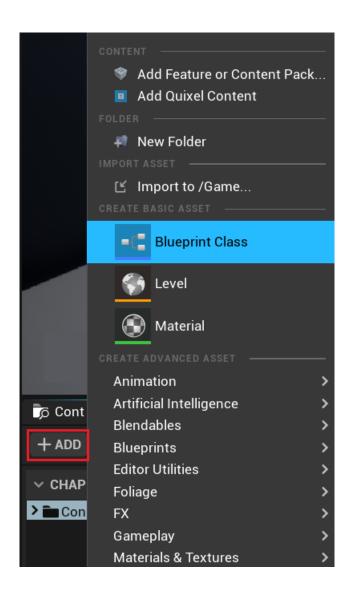


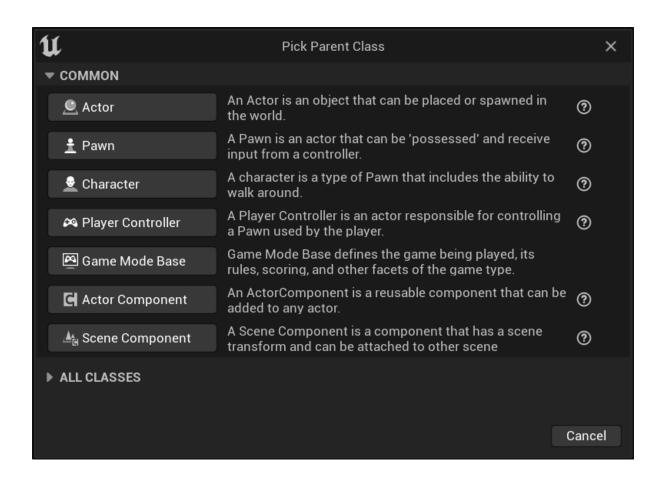


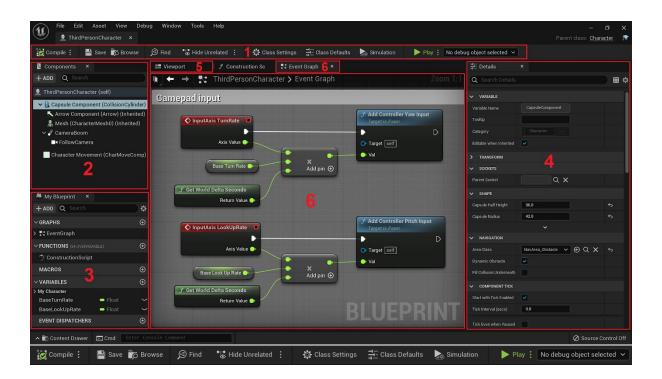


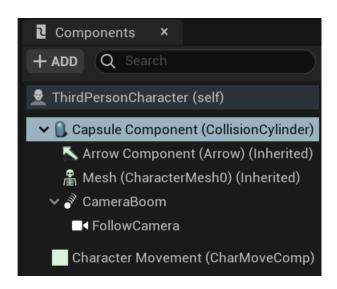


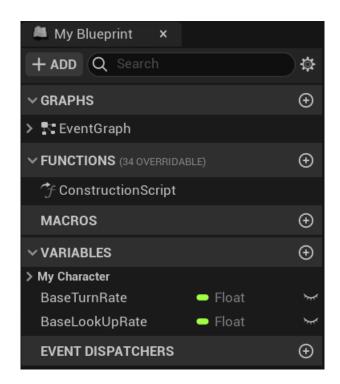


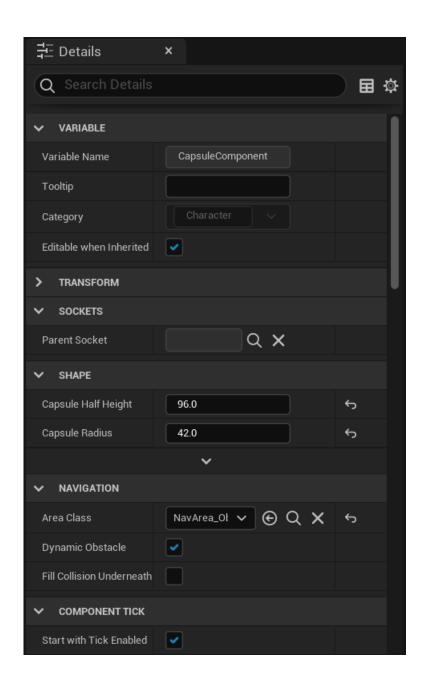


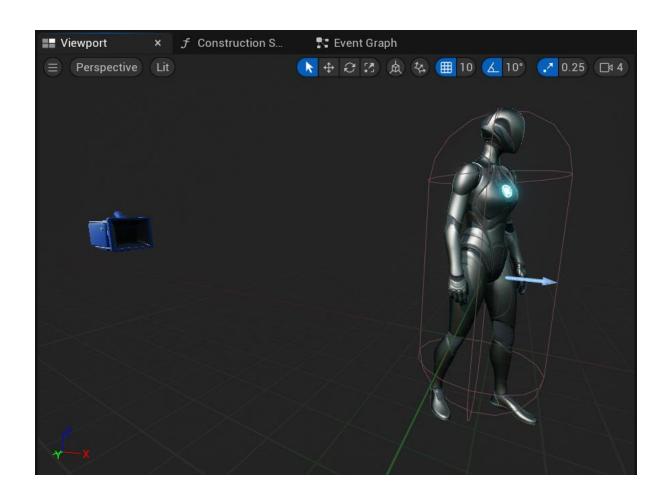


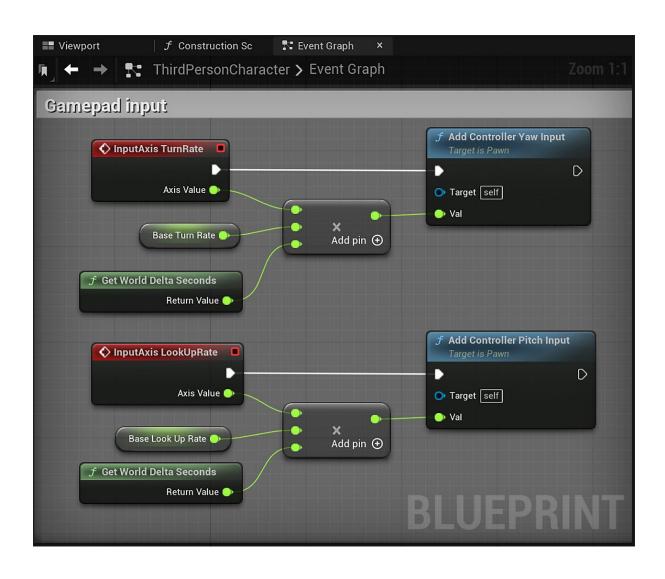


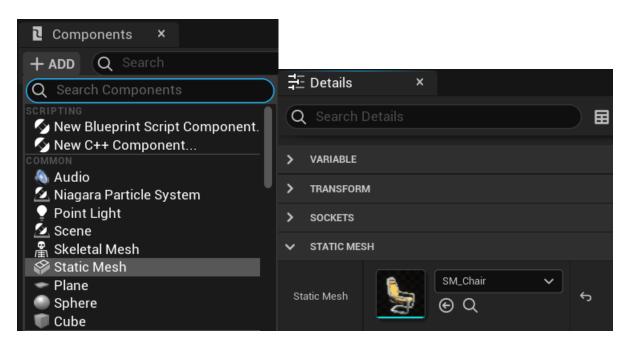


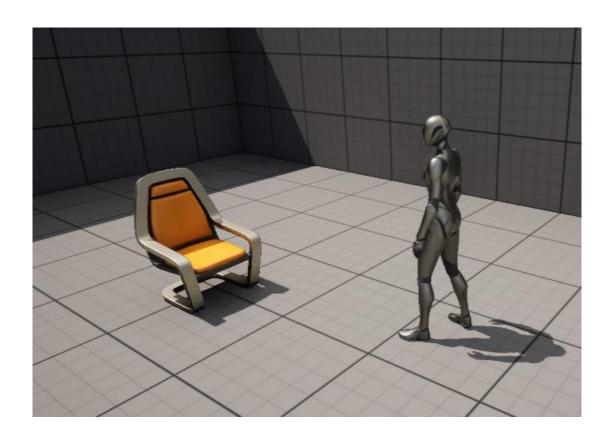




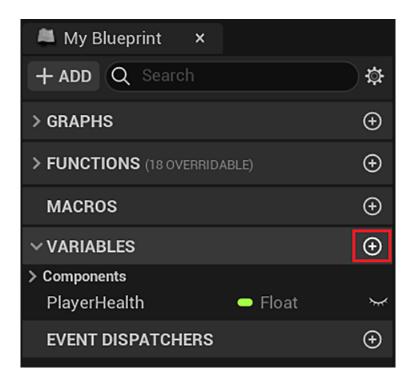


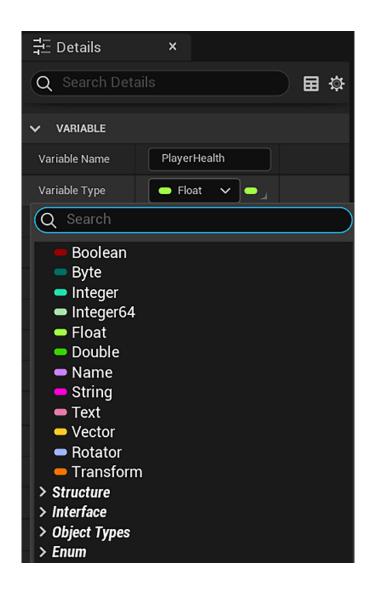


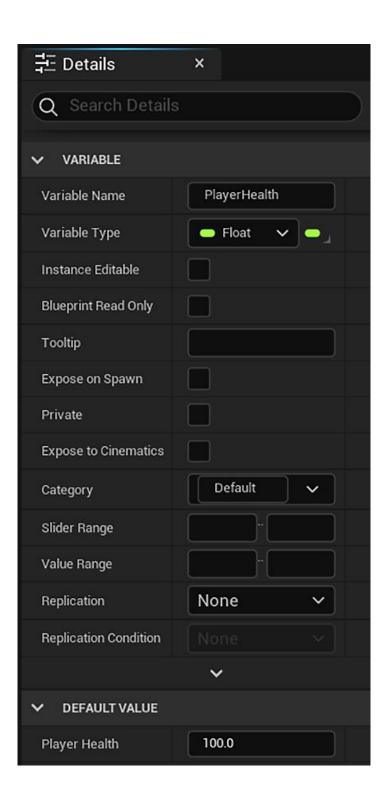


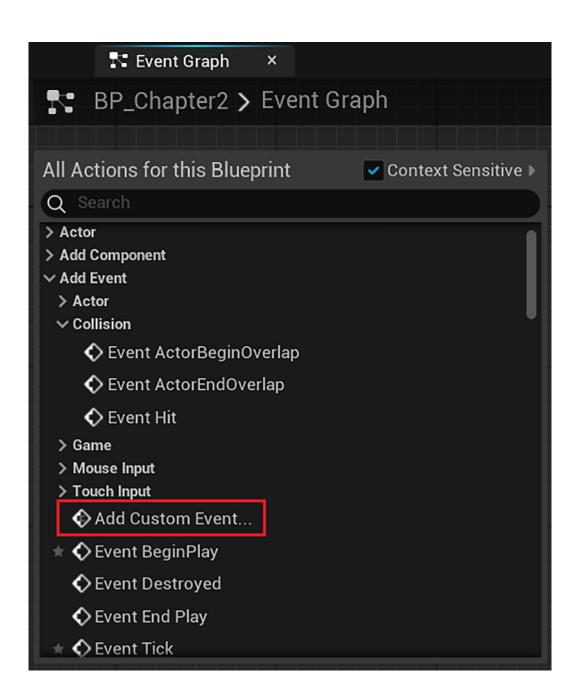


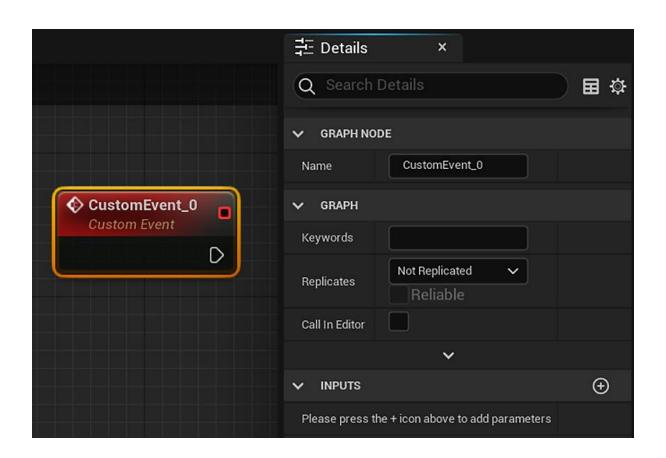
Chapter 2: Programming with Blueprints

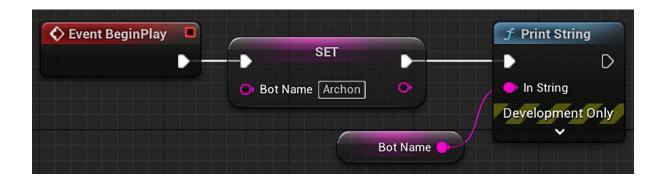


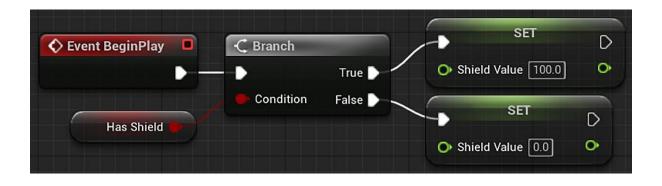


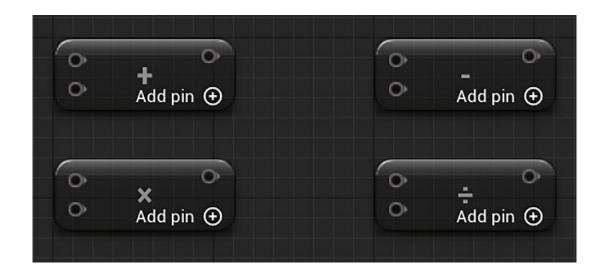


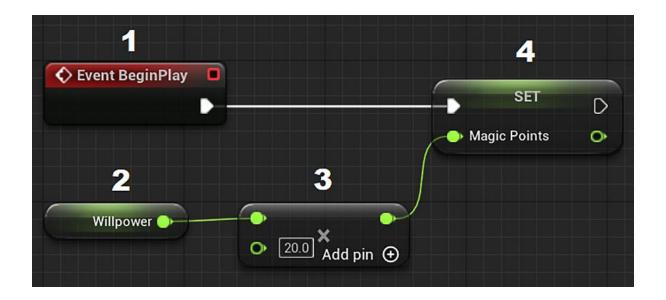


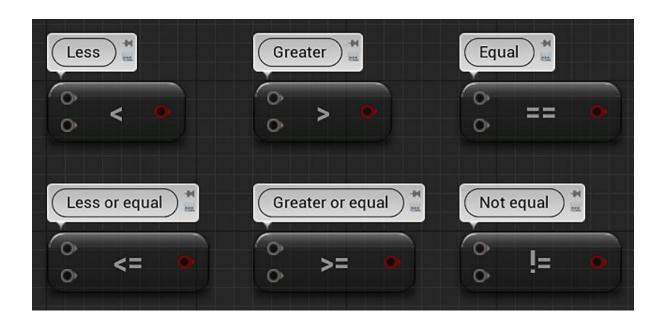


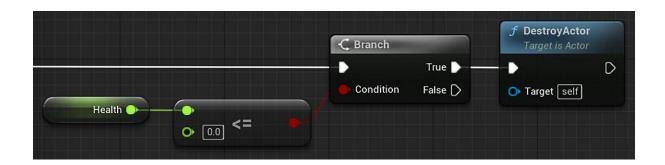


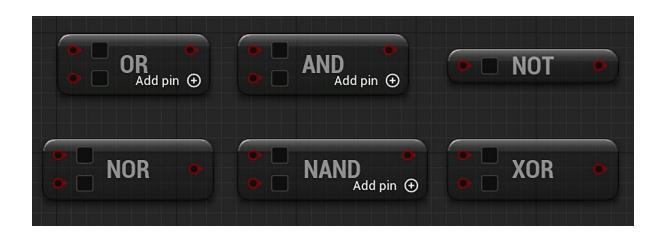


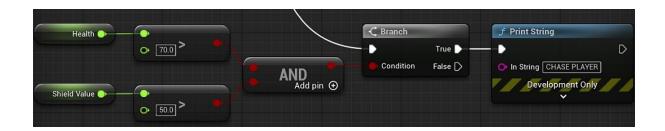


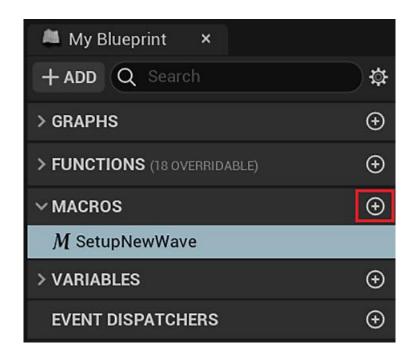


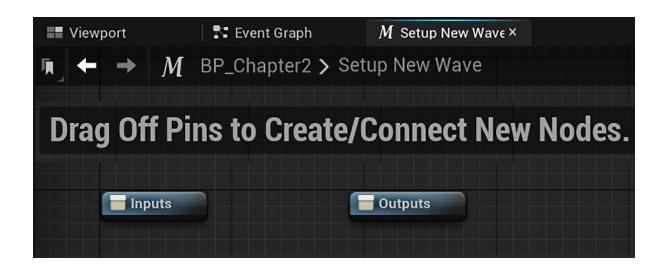


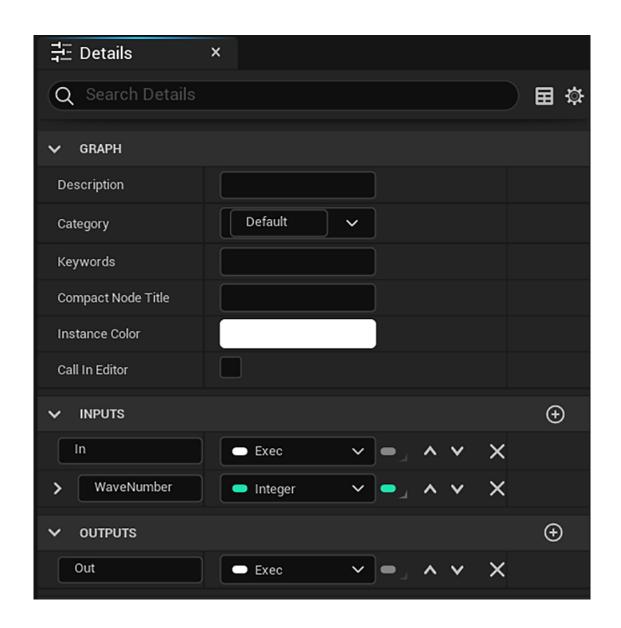


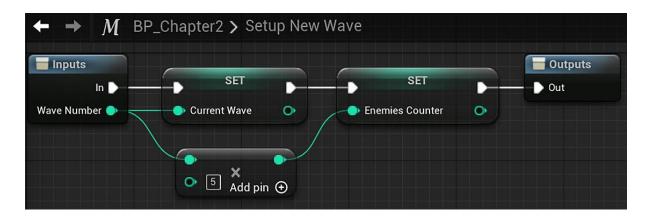


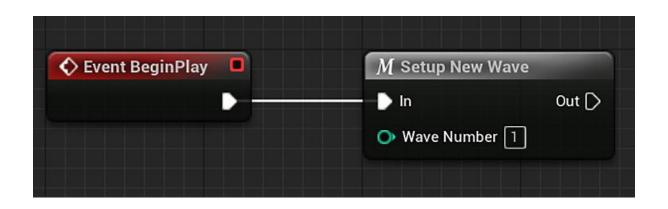


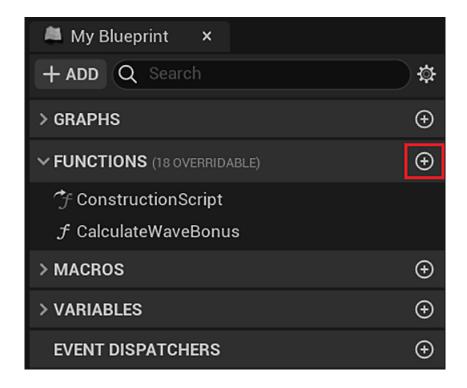


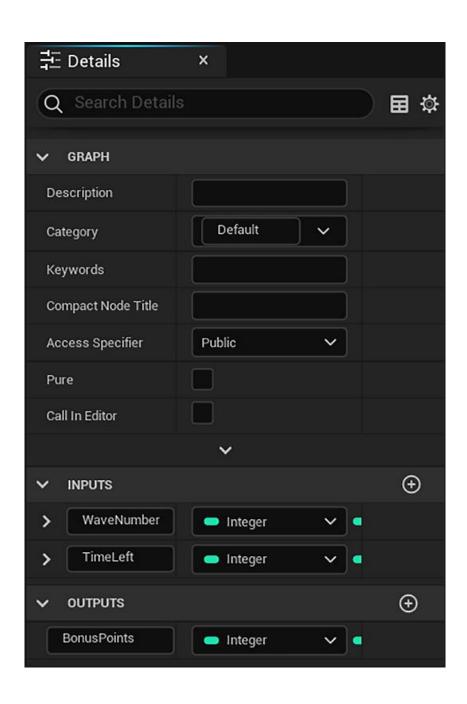


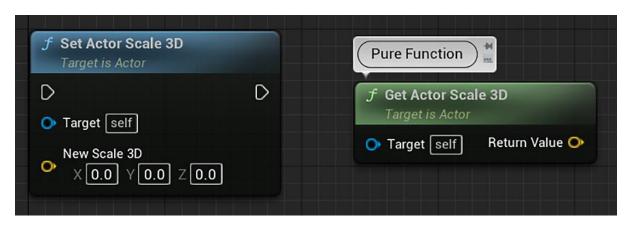


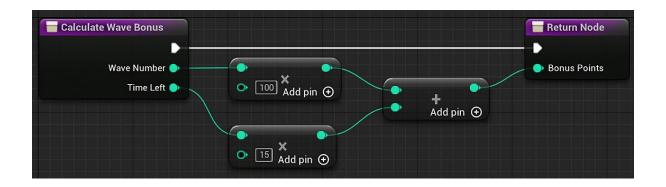


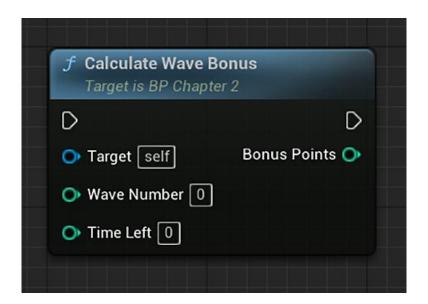


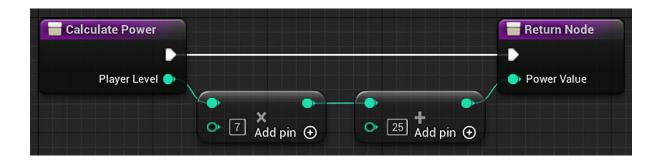


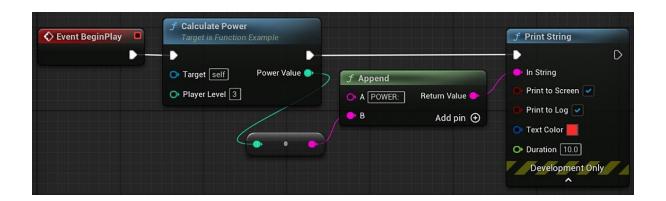








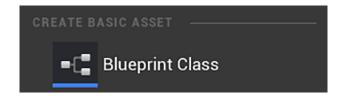


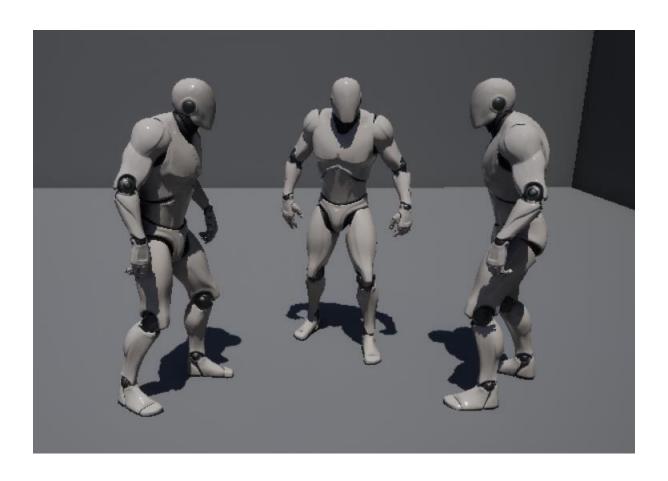


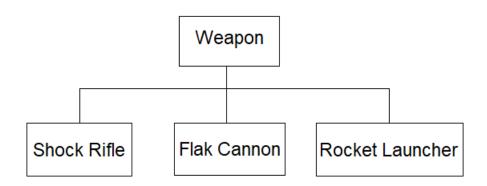


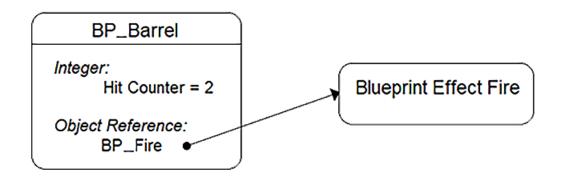
	Macros	Functions	Events
Input parameters	Yes	Yes	Yes
Output parameters	Yes	Yes	No
Multiple execution paths (input/output)	Yes	No	No
Callable by another Blueprint	No	Yes	Yes
Latent actions (for example, delay)	Yes	No	Yes
Timeline nodes	No	No	Yes

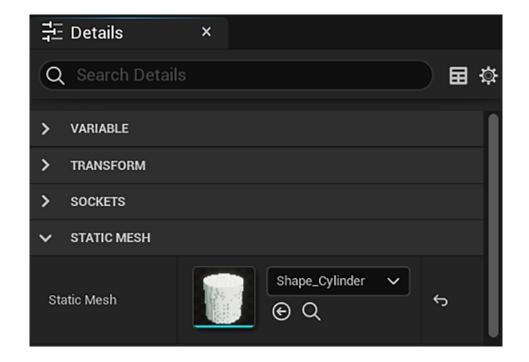
Chapter 3: Object-Oriented Programming and the Gameplay Framework

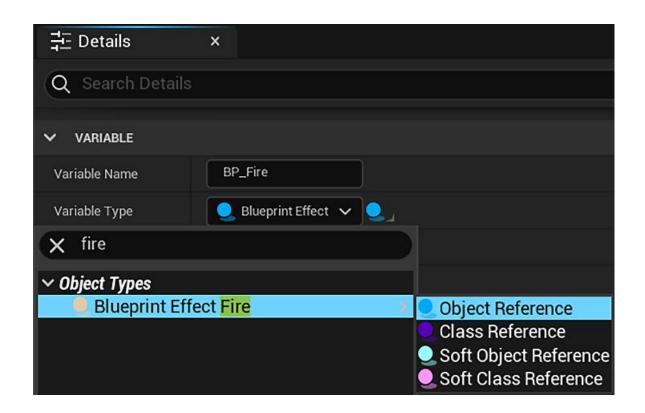




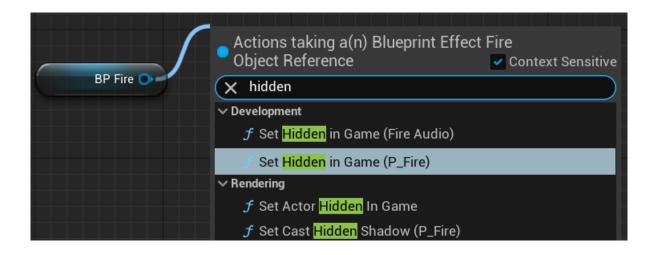


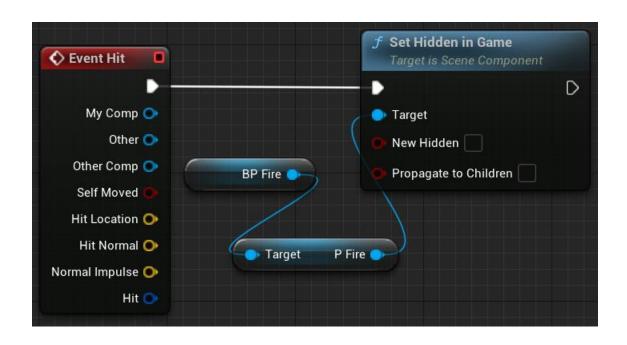




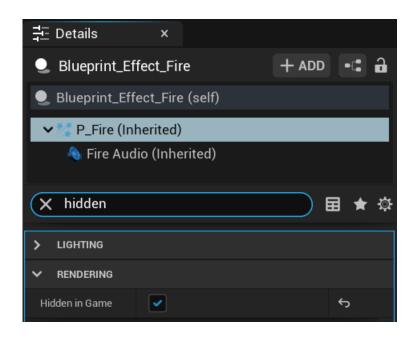


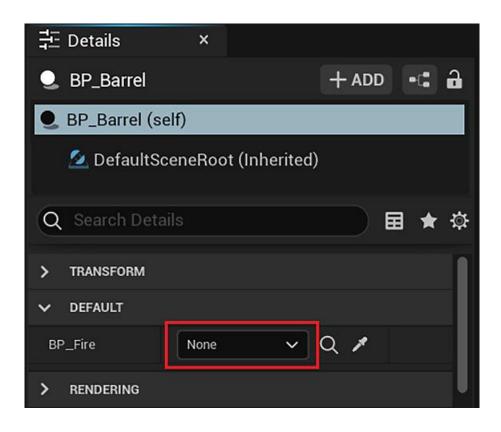


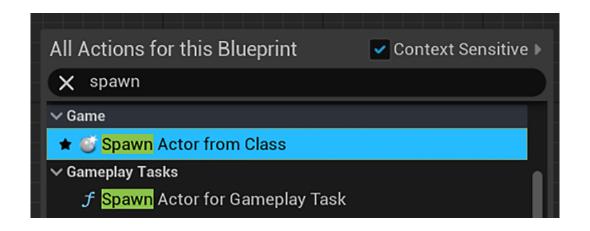


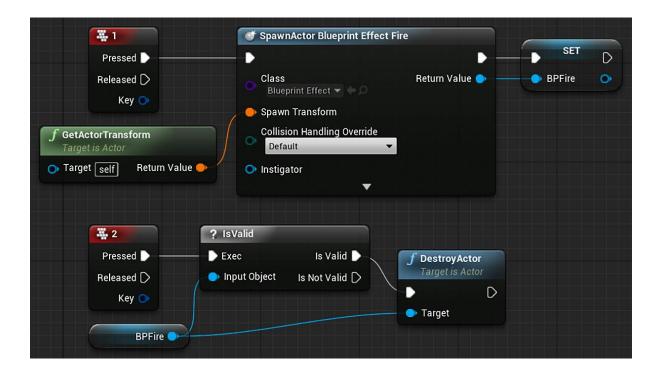


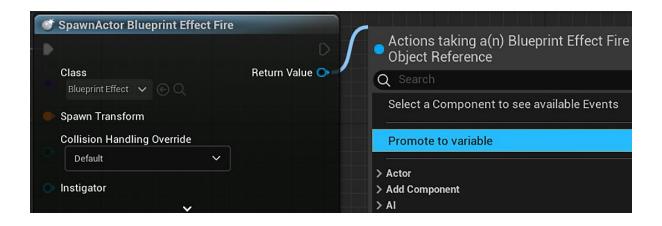


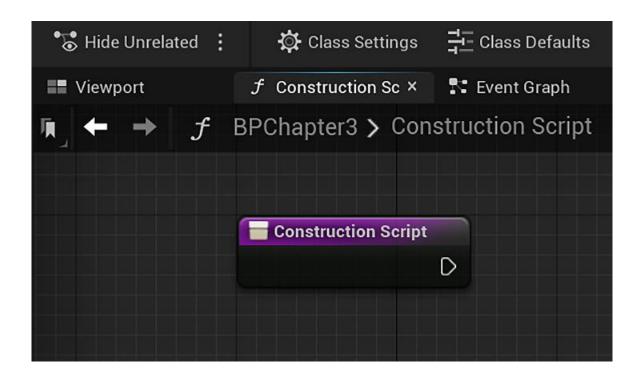


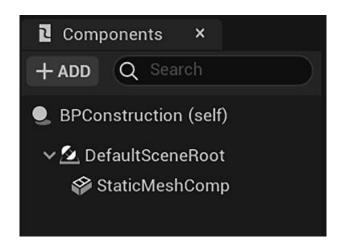


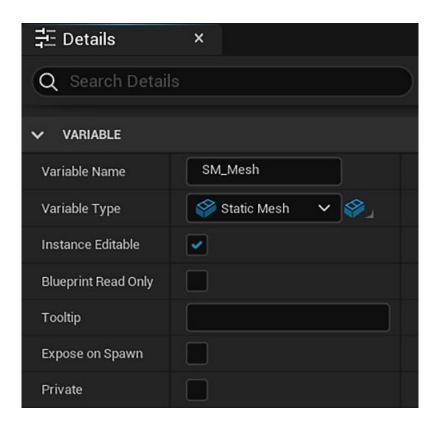


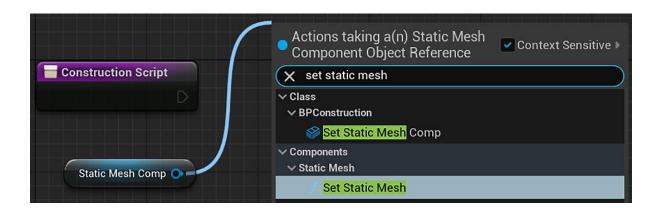


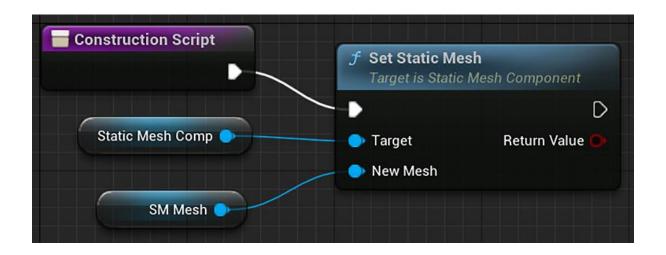


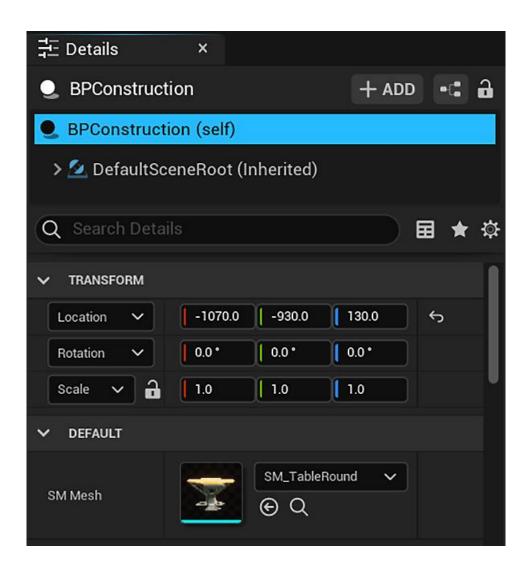


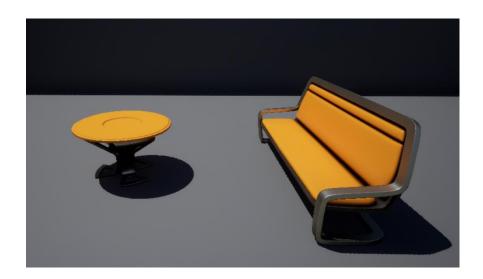


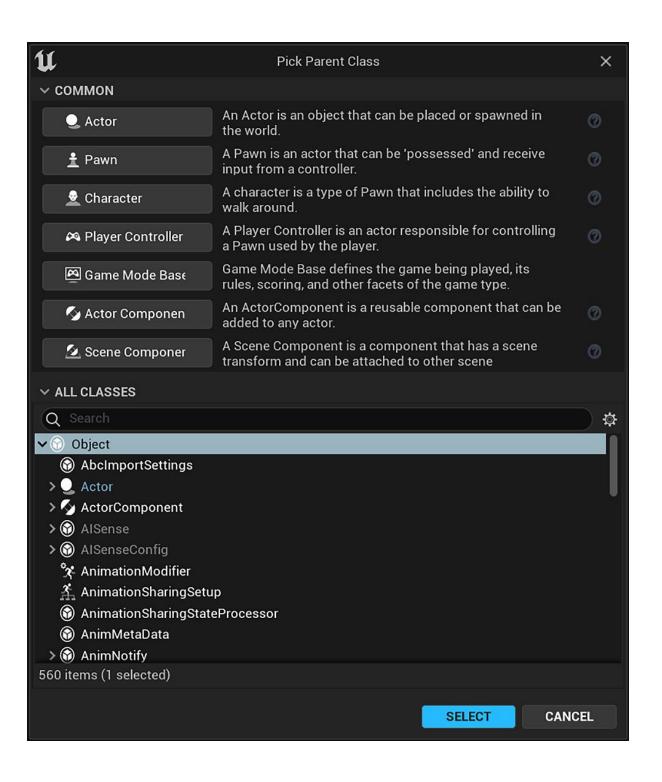


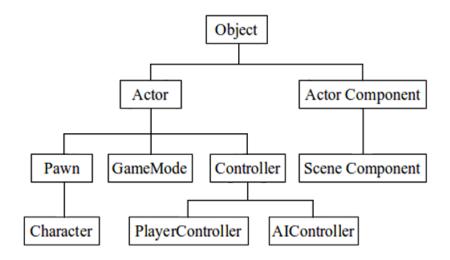


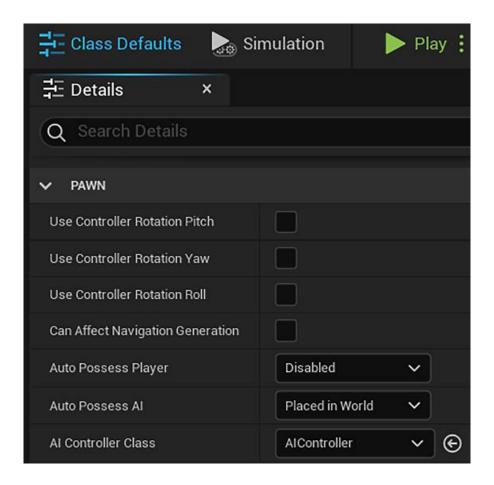


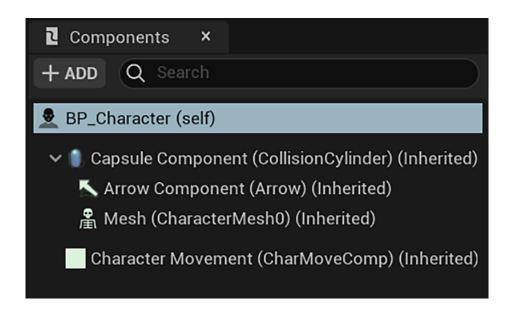


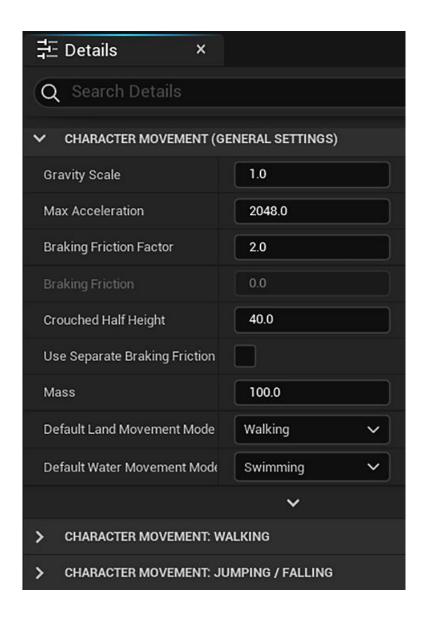


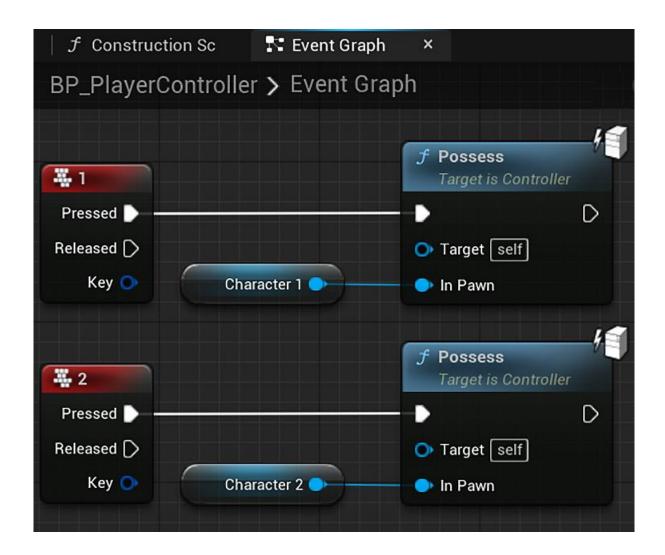


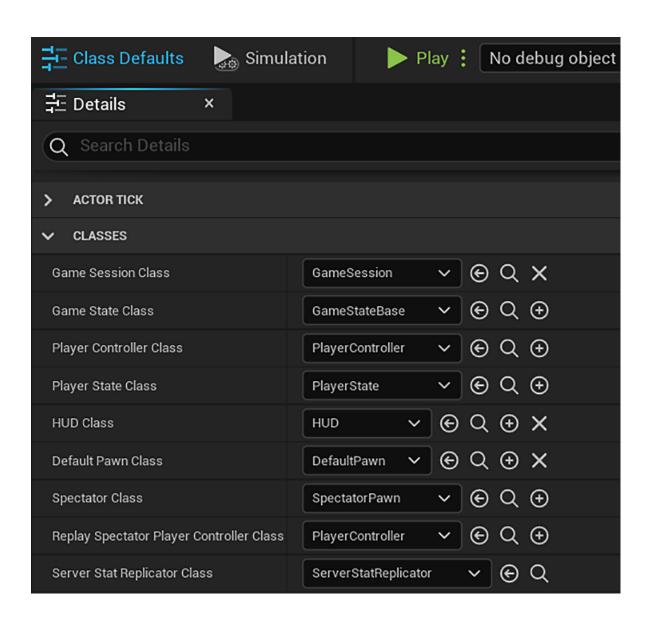


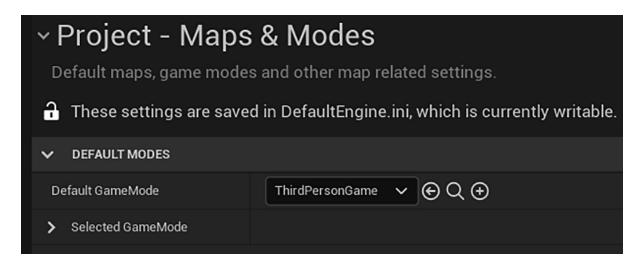


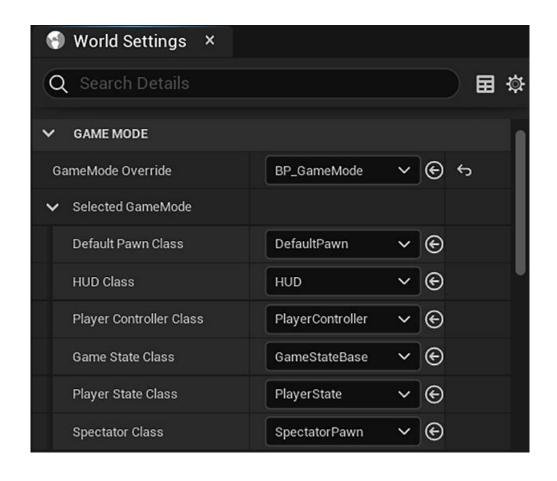


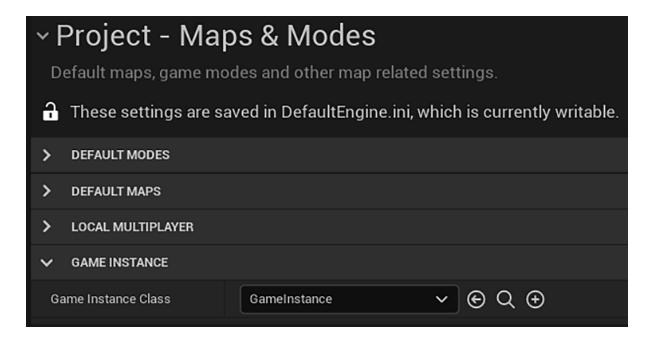




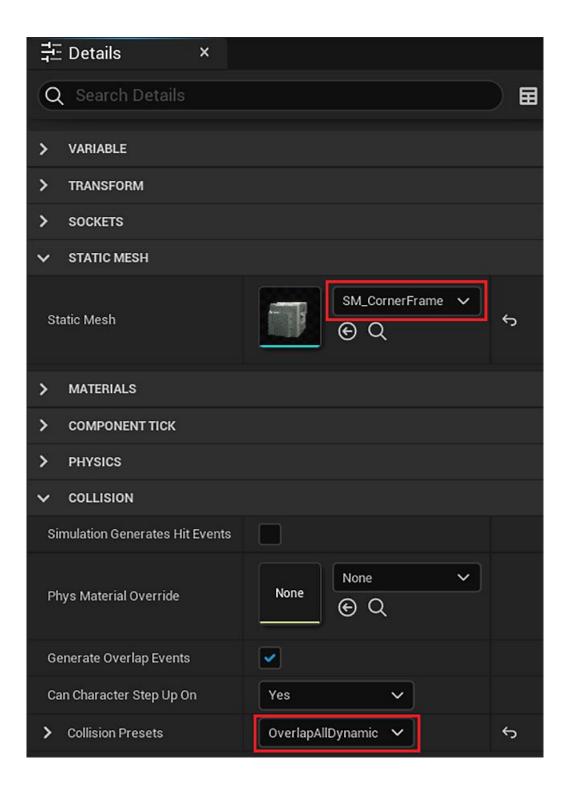


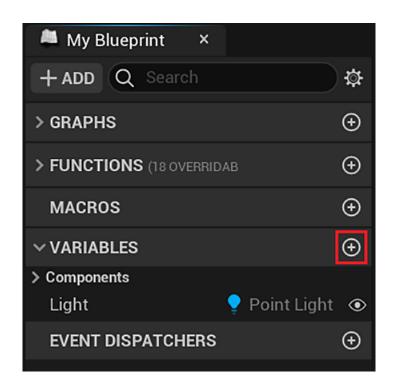


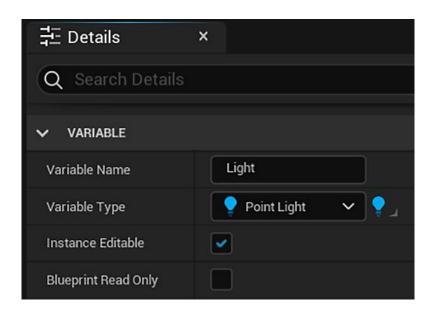


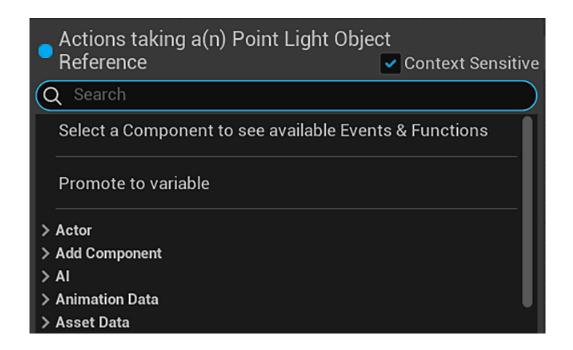


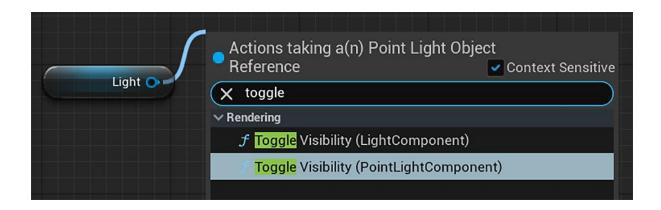
Chapter 4: Understanding Blueprint Communication



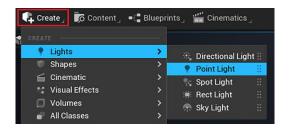


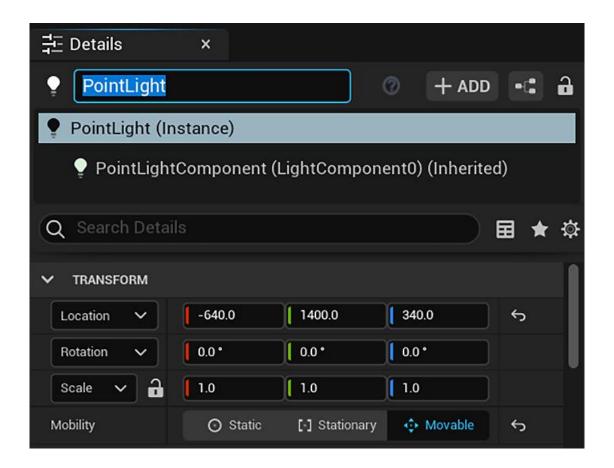


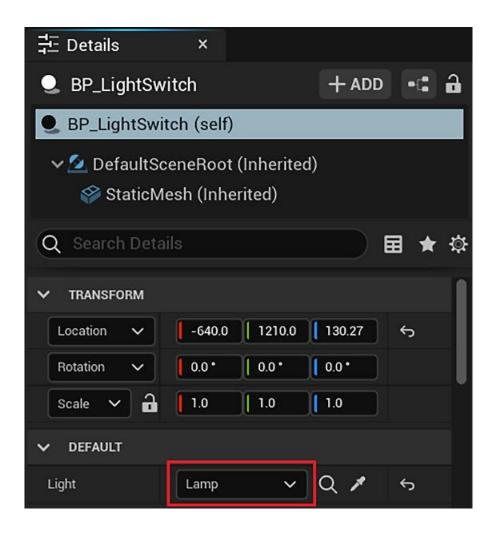










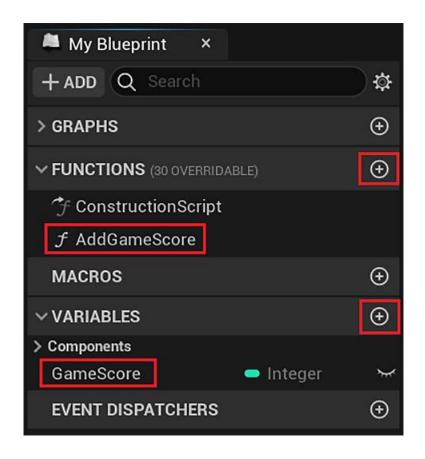


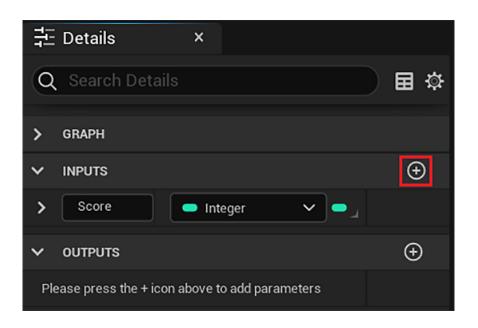


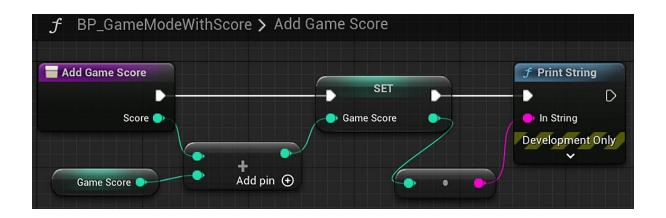
Game Mode Base

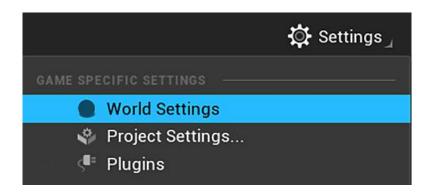
BP_GameModeWithScore

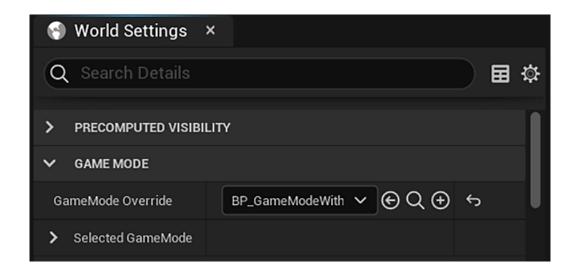
Game Score (variable)
AddGameScore (function)

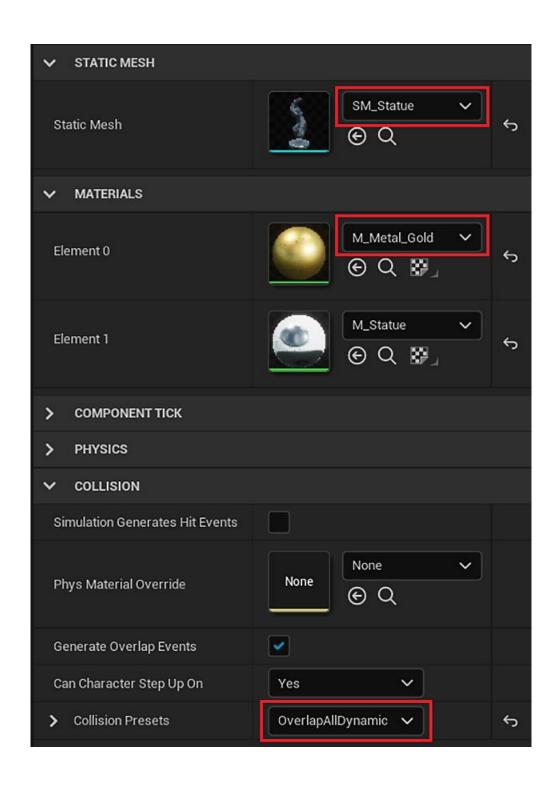


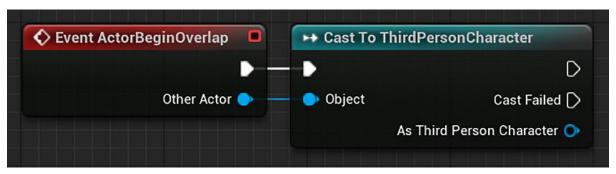


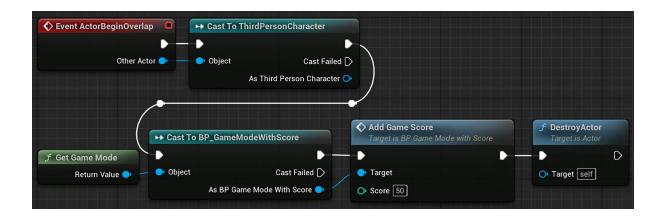


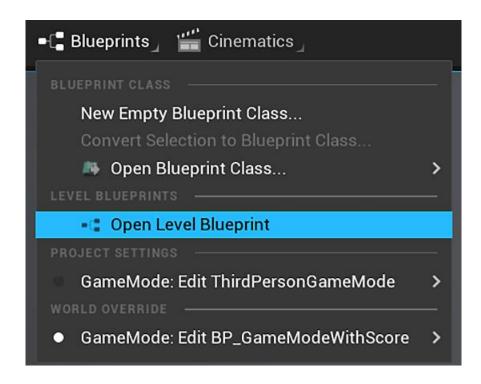


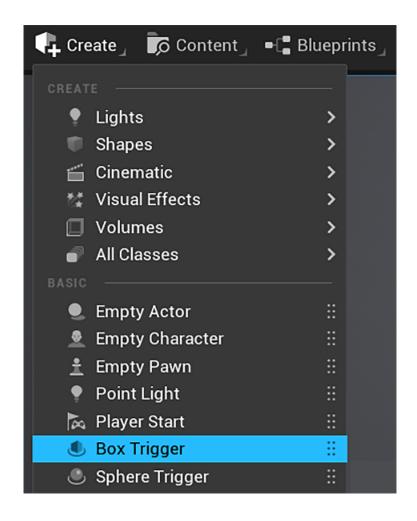


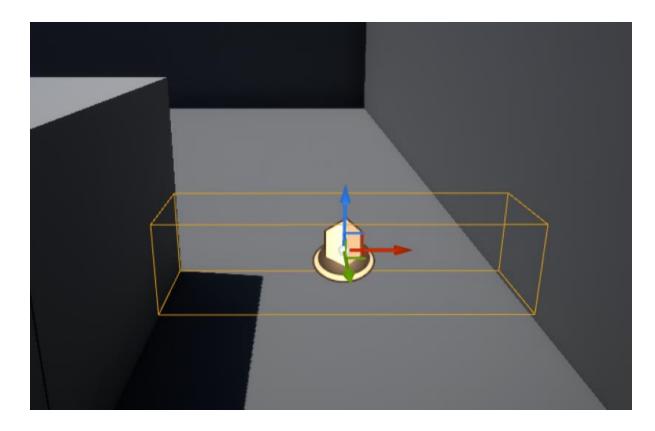


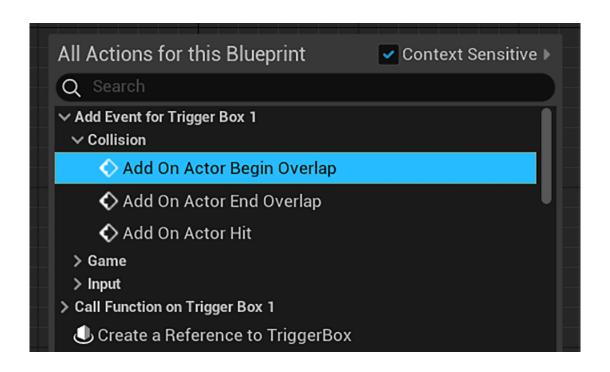


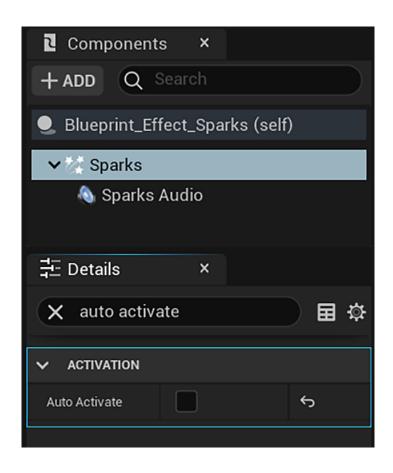


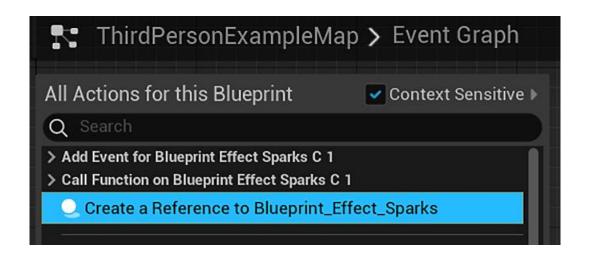


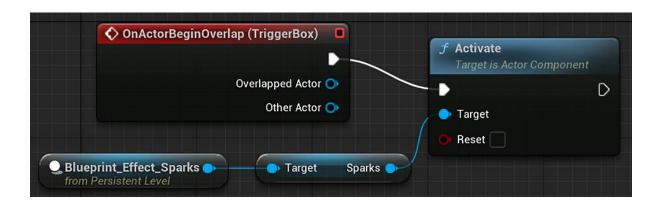


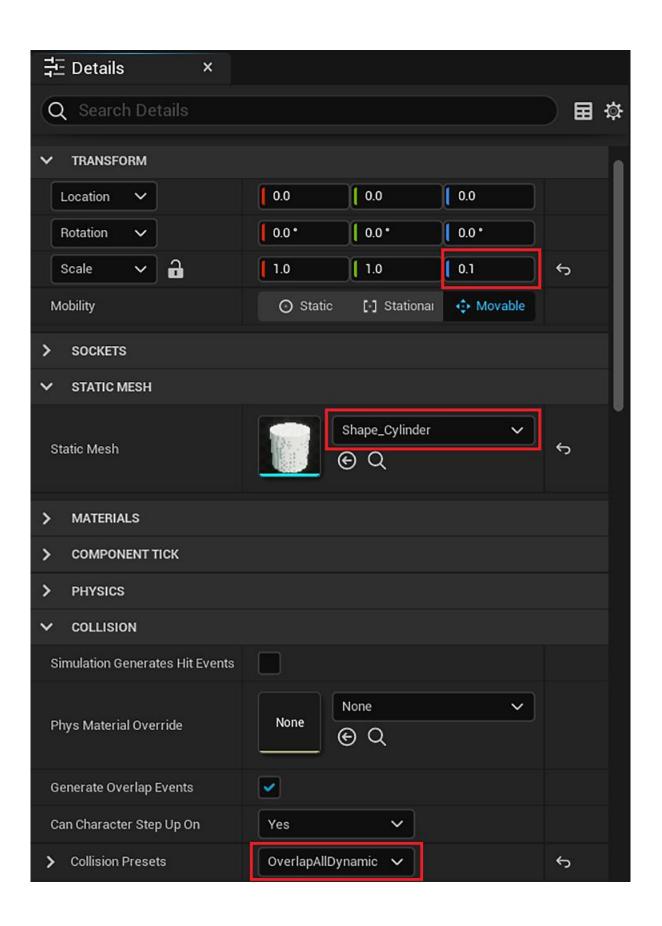


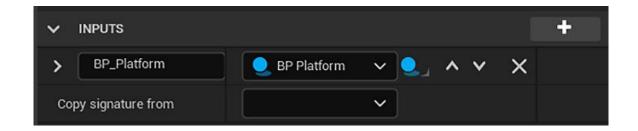


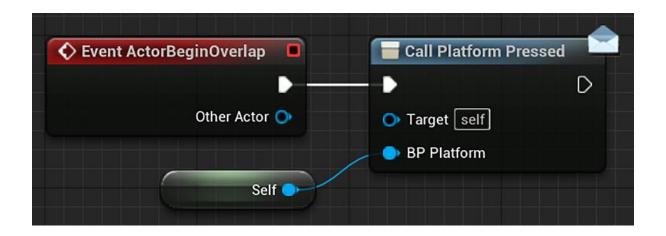


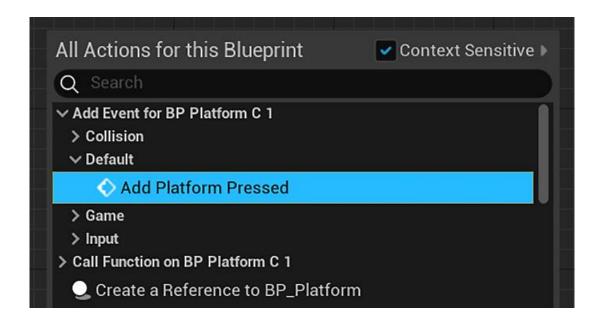


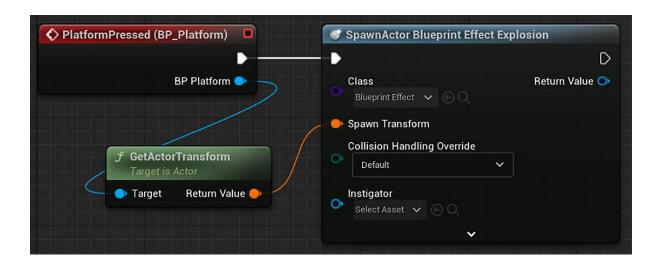




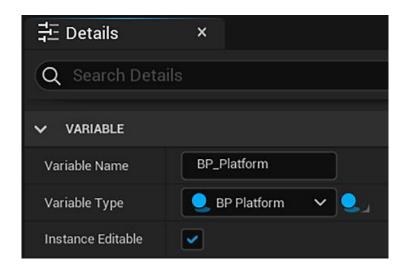


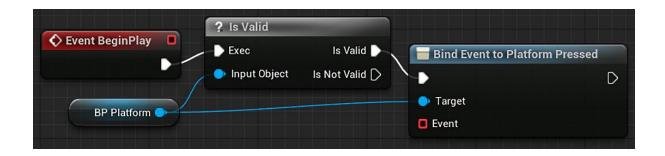


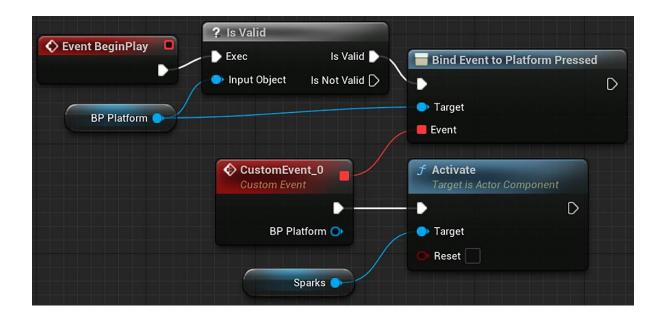


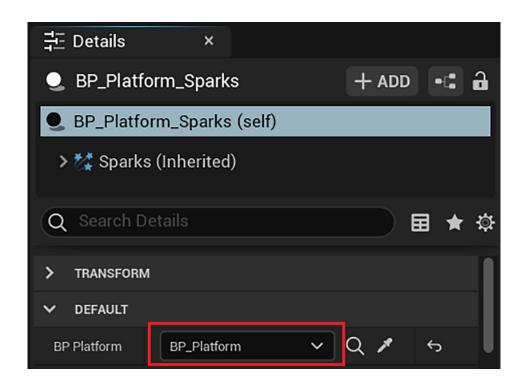


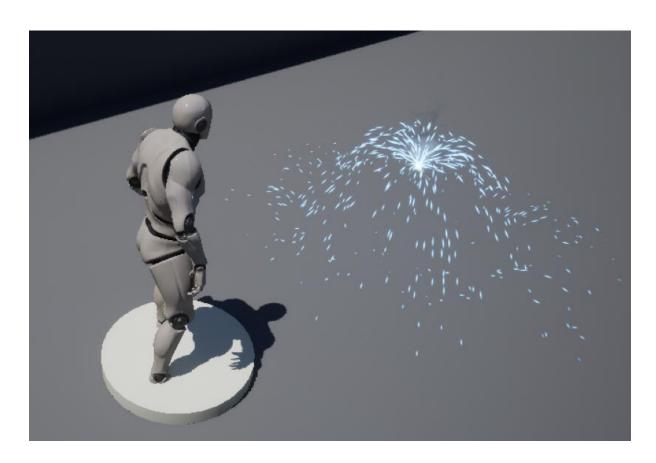






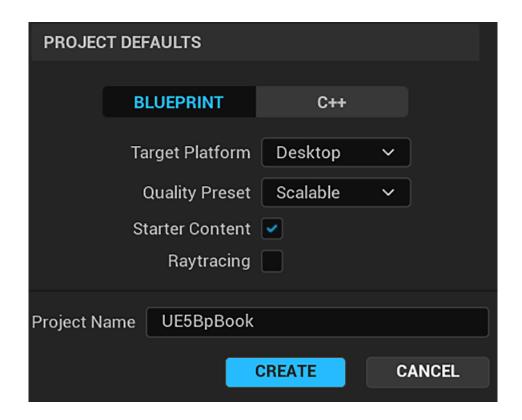


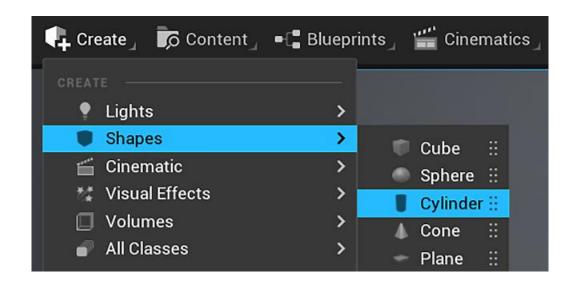


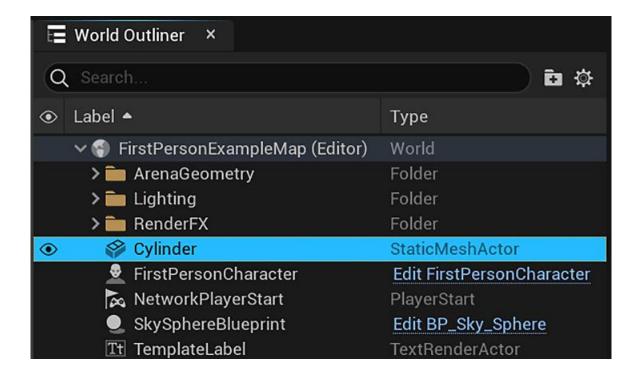


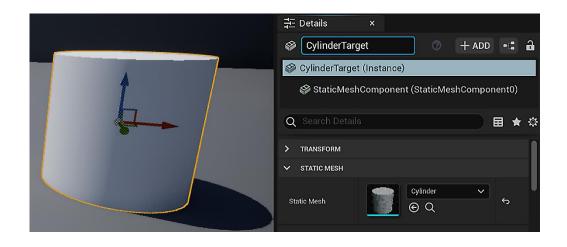
Chapter 5: Object Interaction with Blueprints

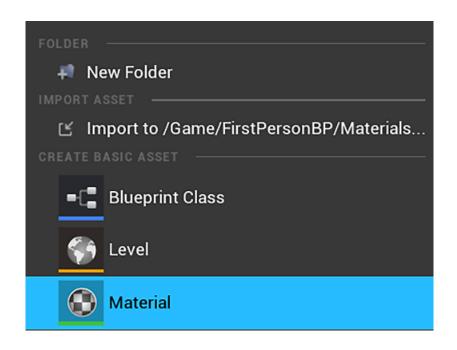


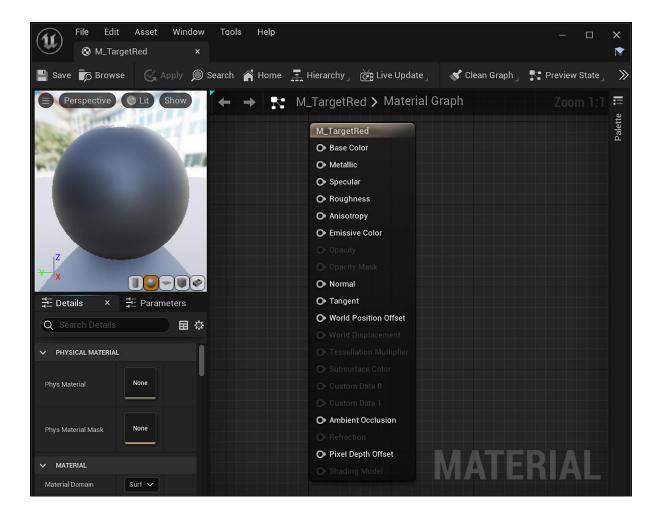


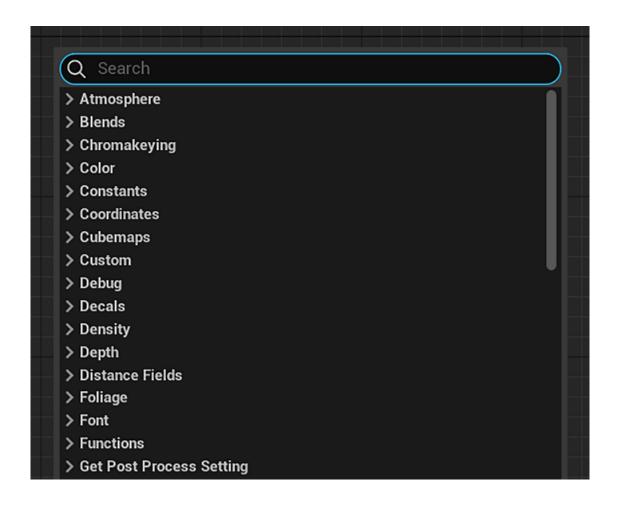


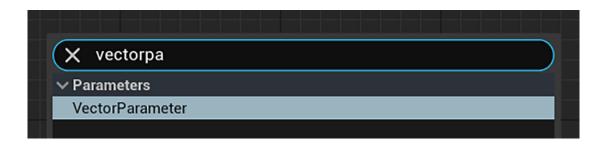


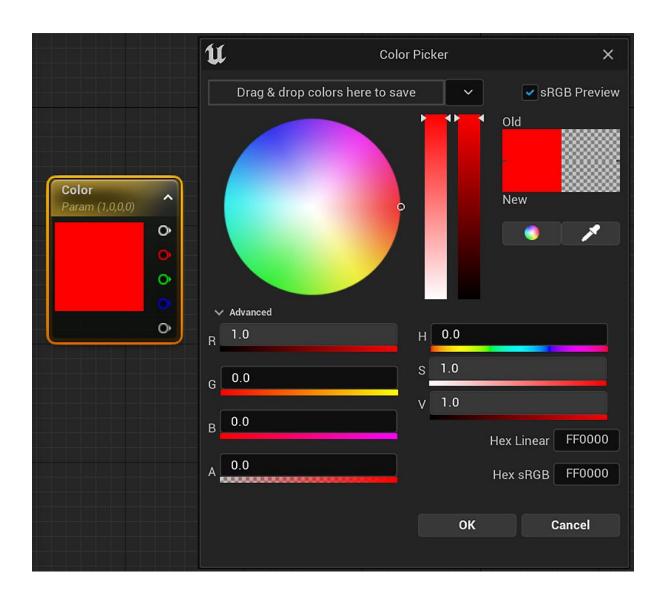


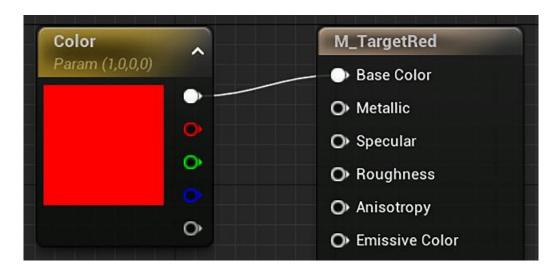








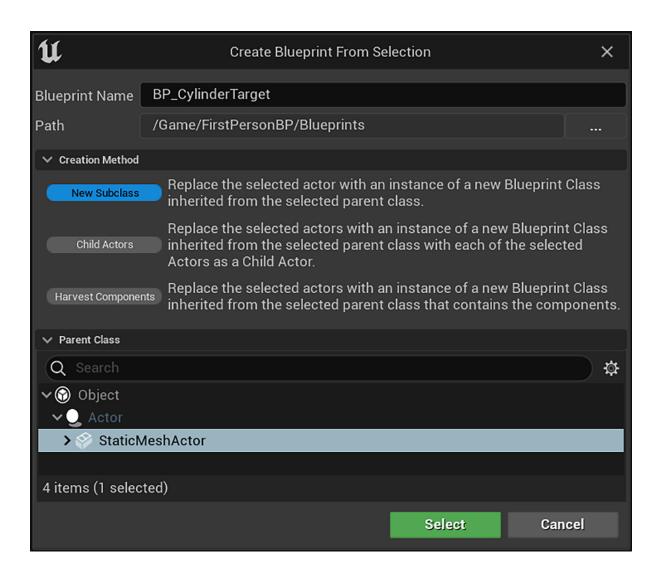


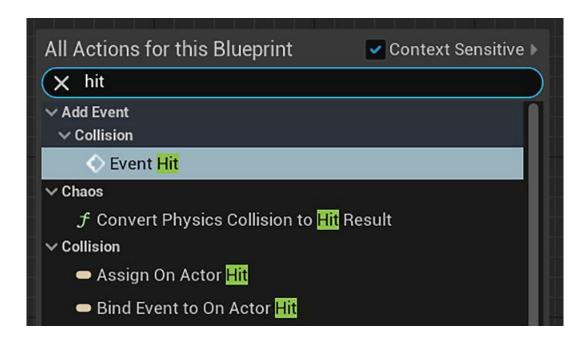


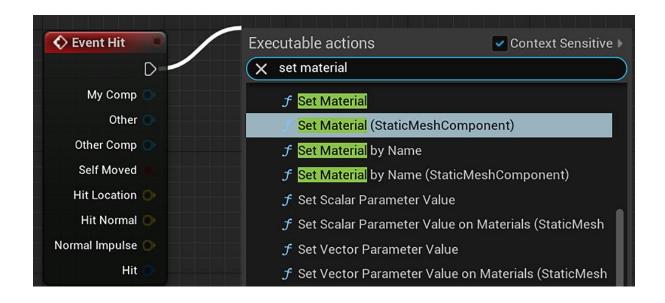


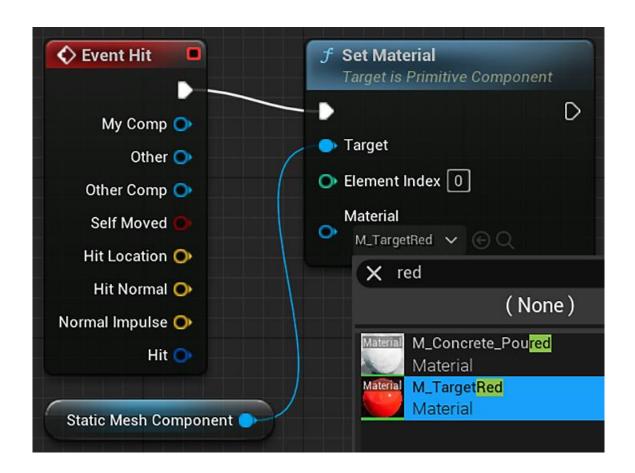




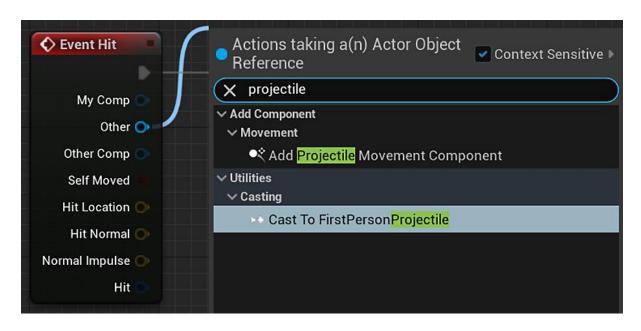


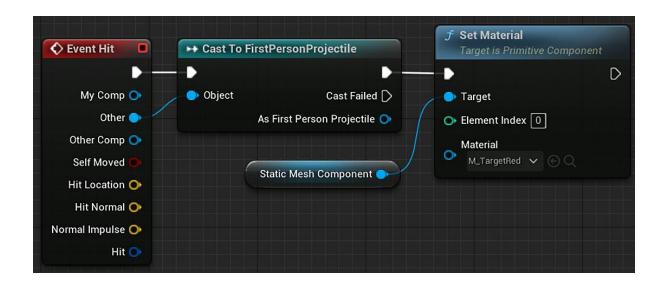


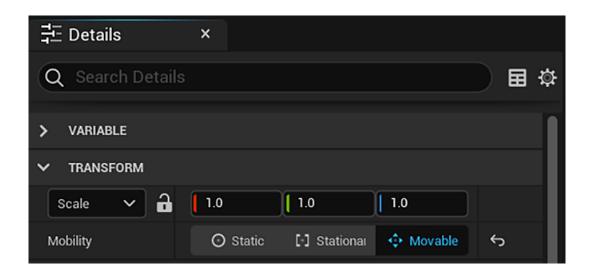


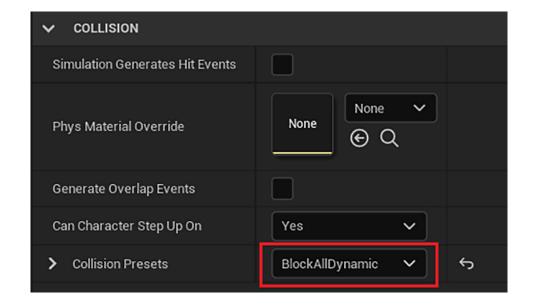


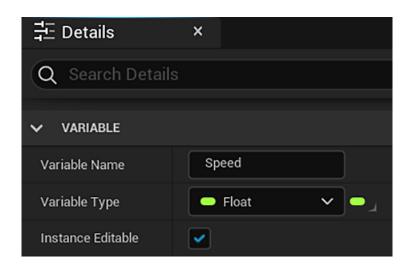


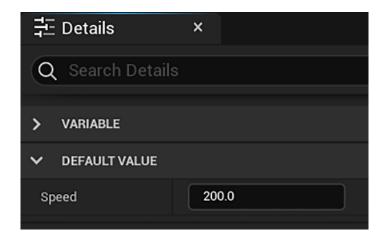


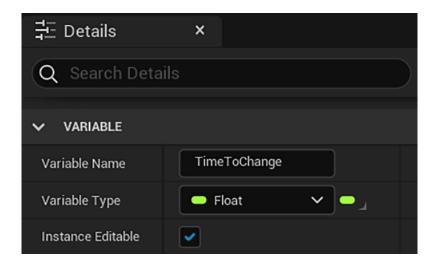


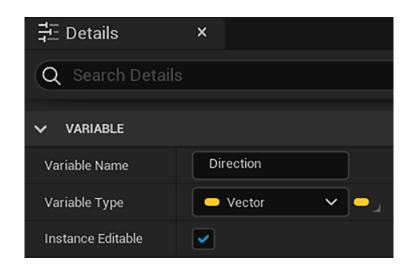


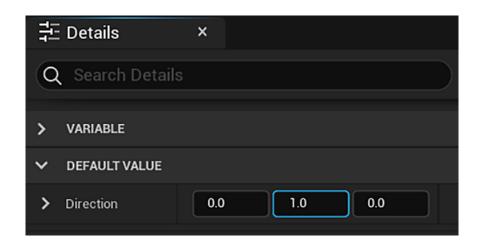




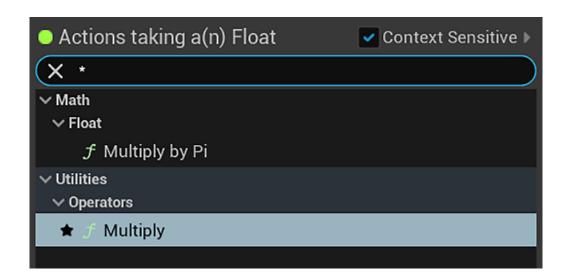


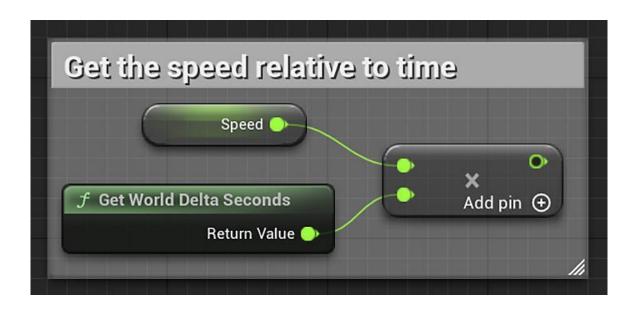


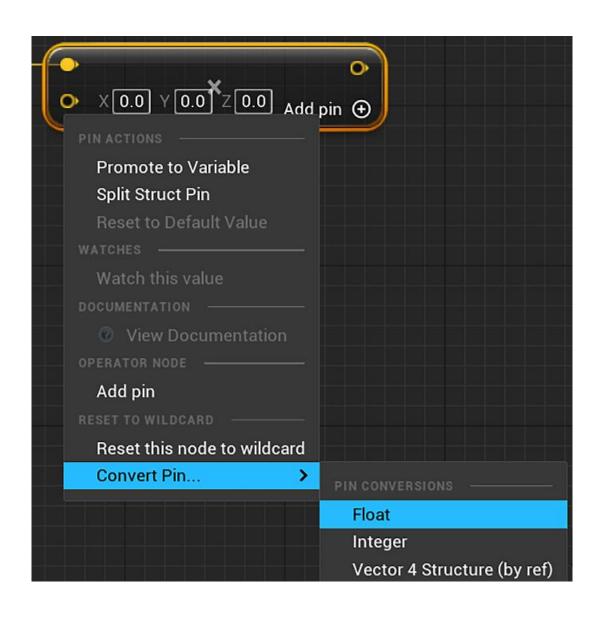


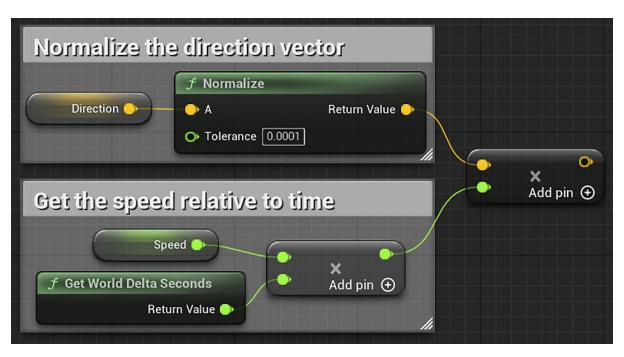




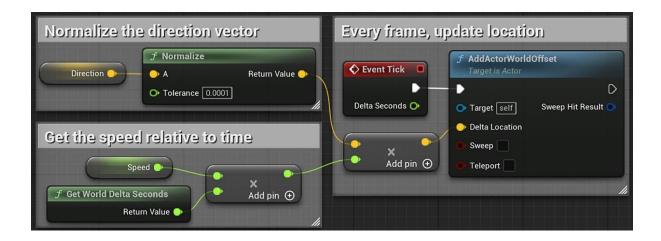




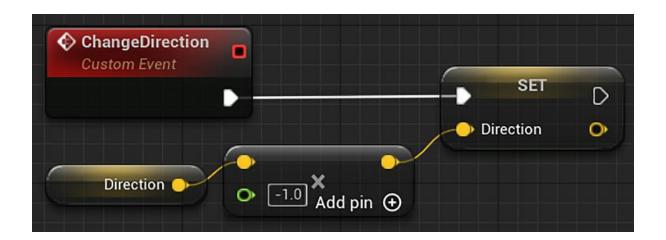




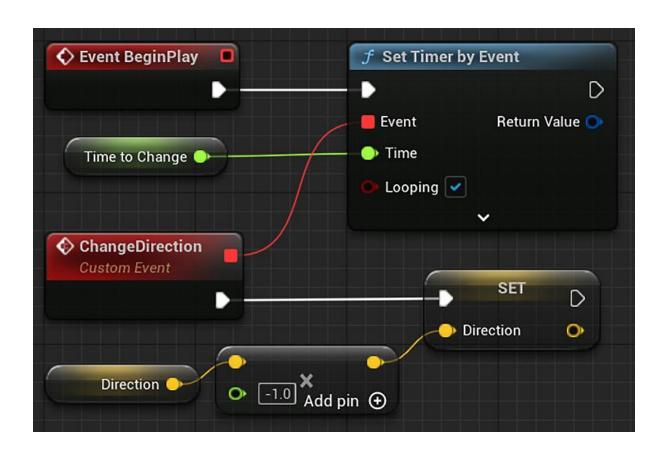


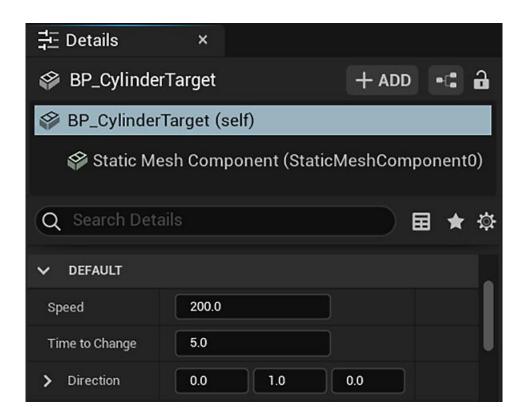




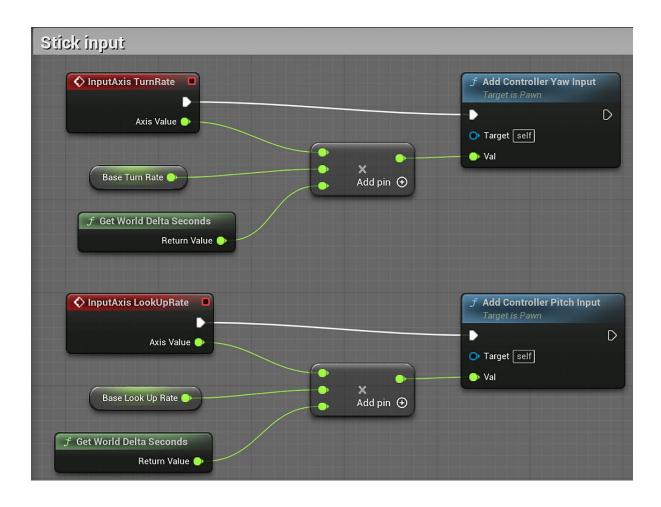


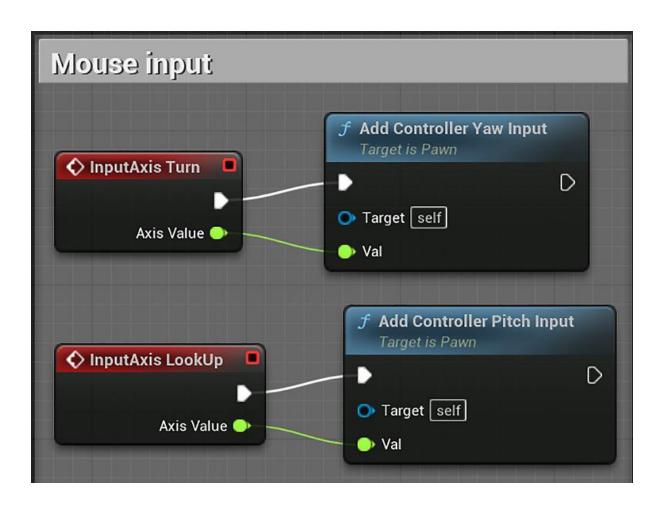


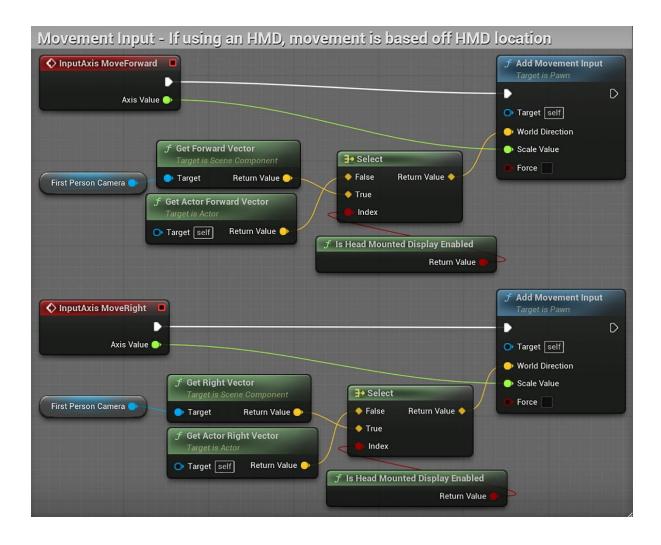


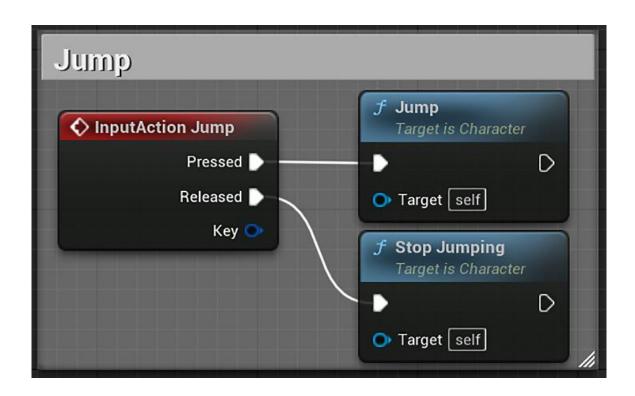


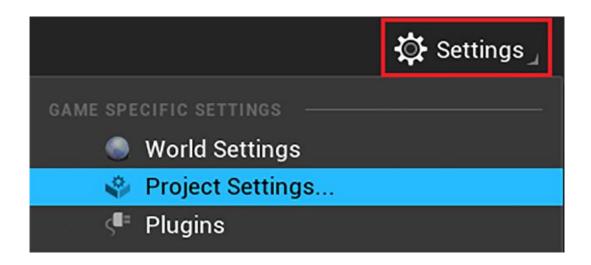
Chapter 6: Enhancing Player Abilities

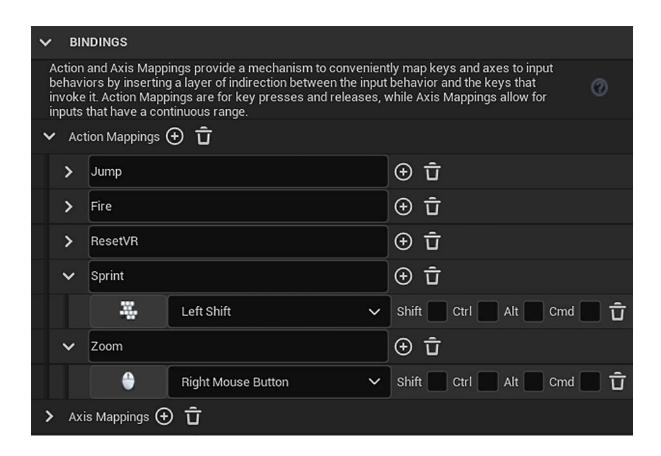


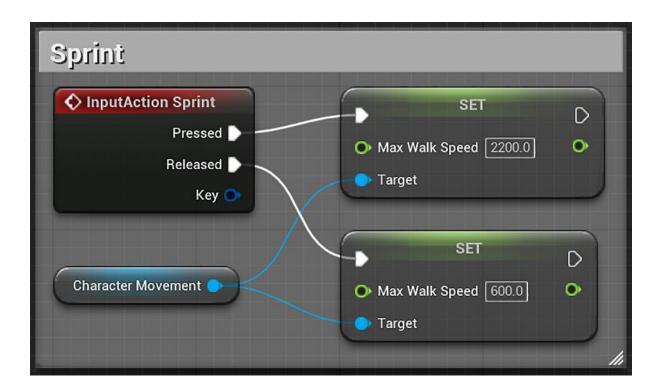


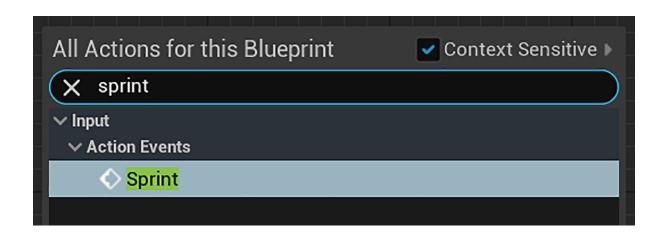


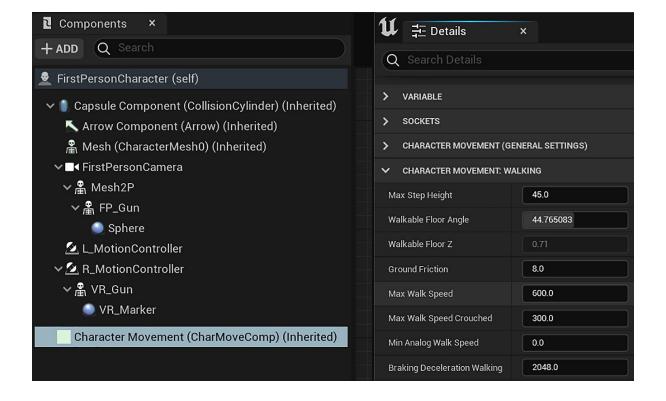


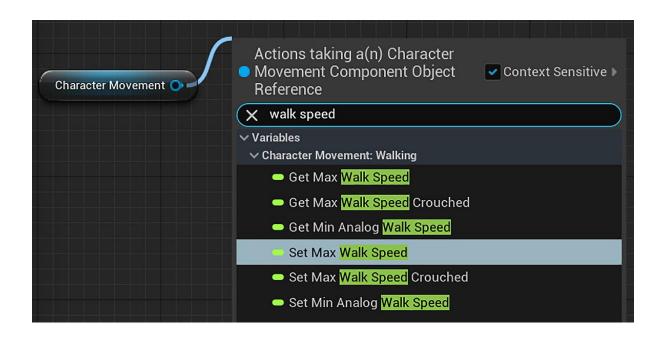


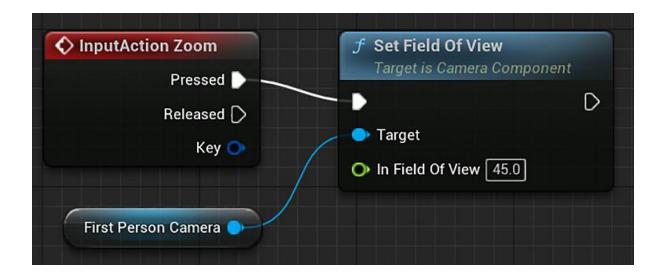




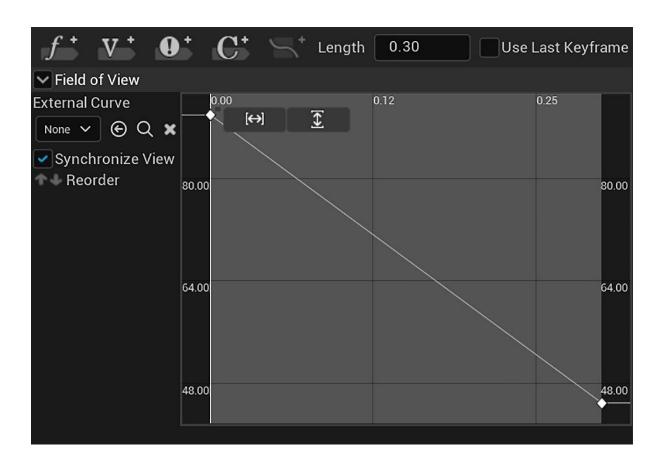






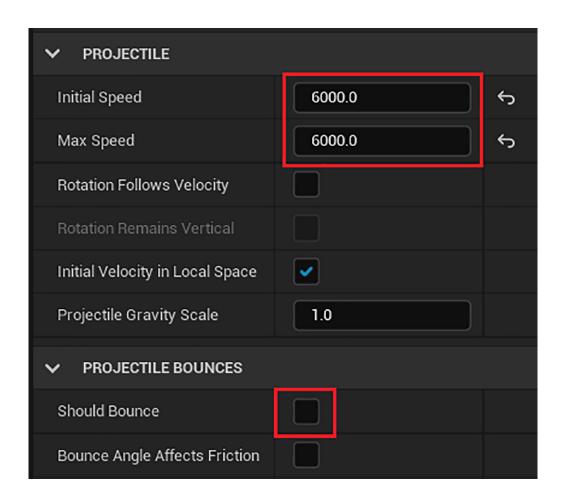


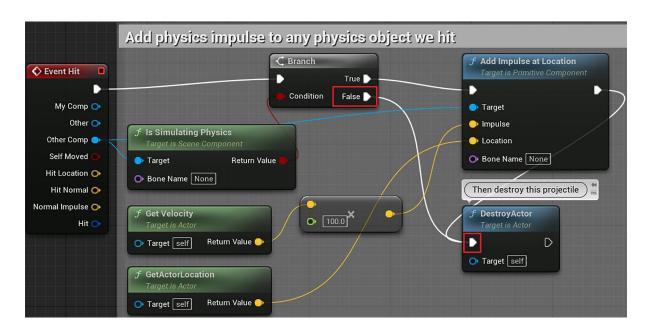


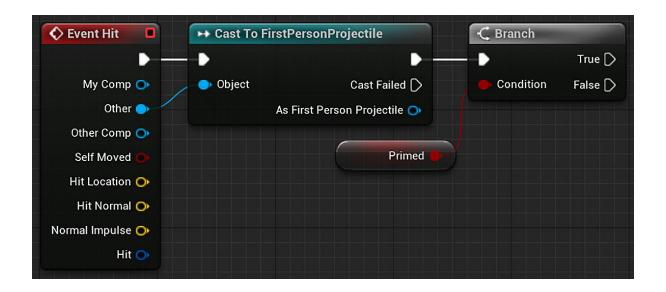


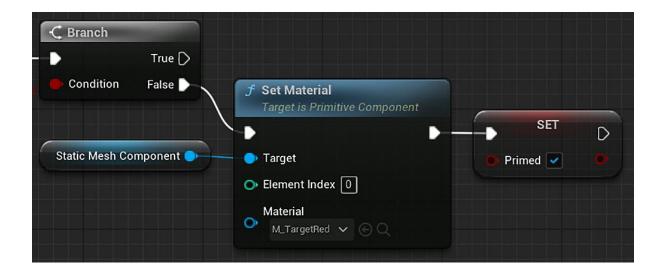


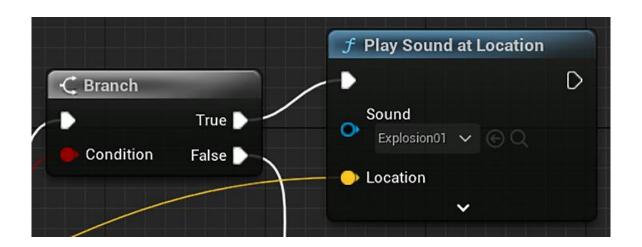


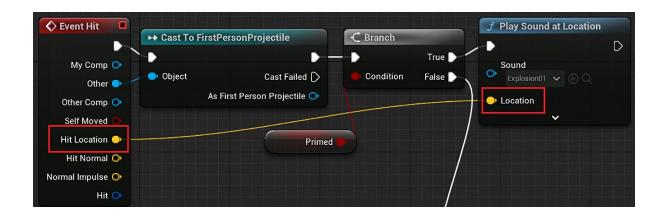


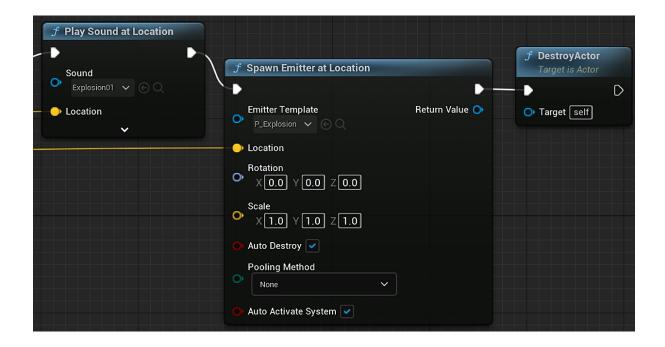


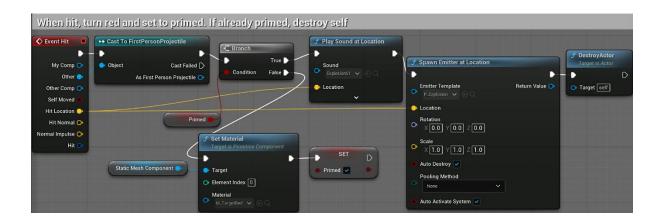








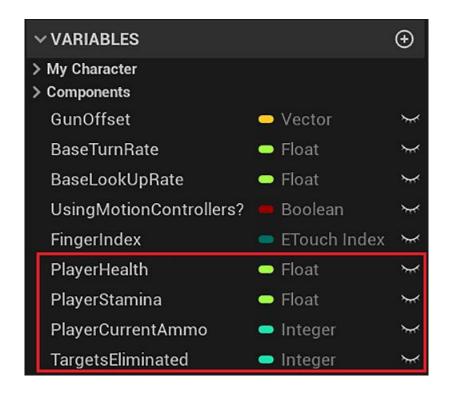


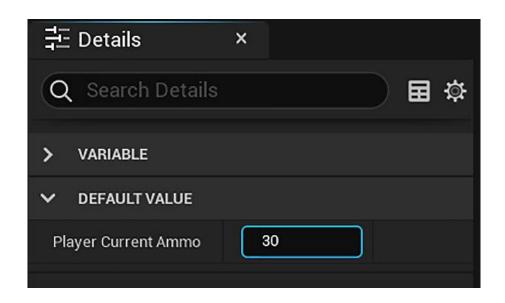


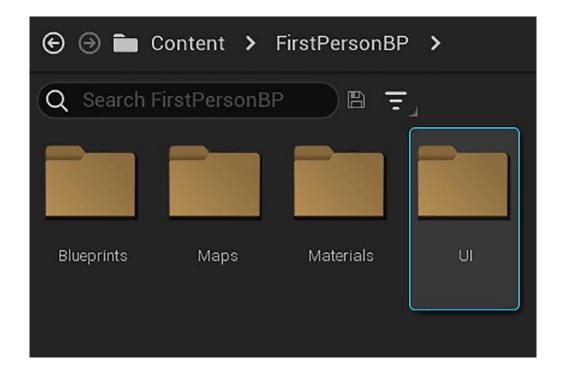
Chapter 7: Creating Screen UI Elements

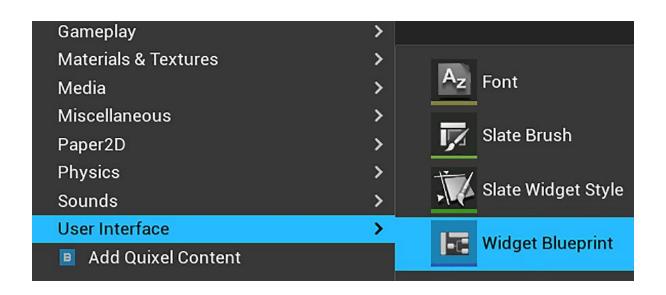


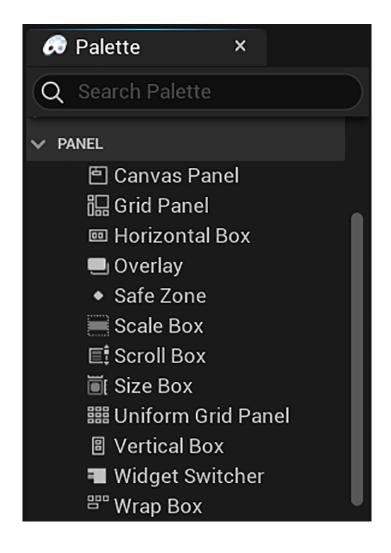
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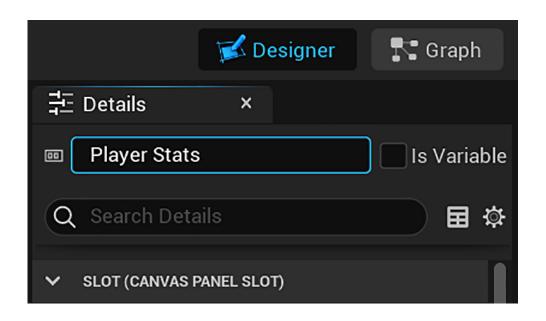


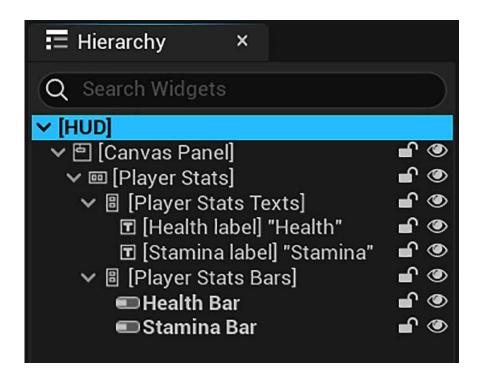


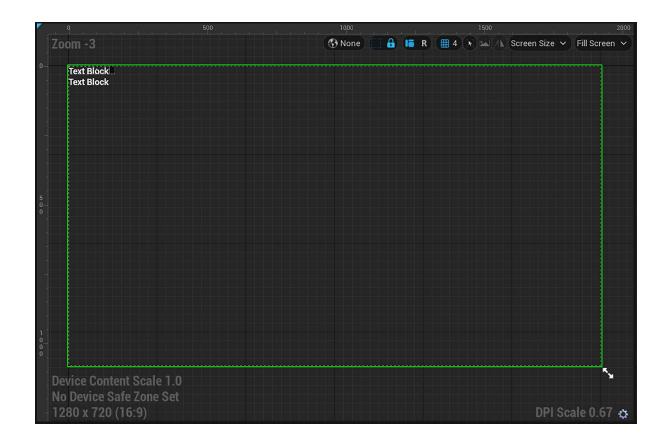


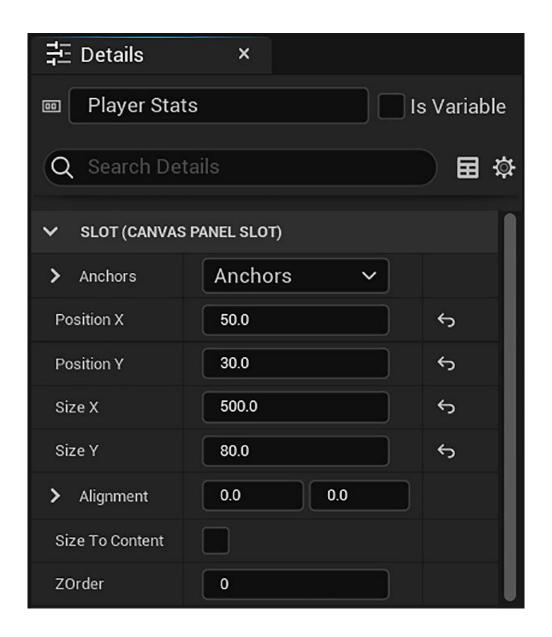


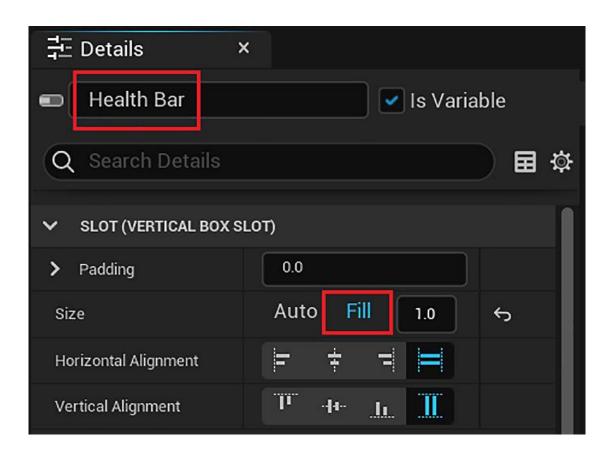


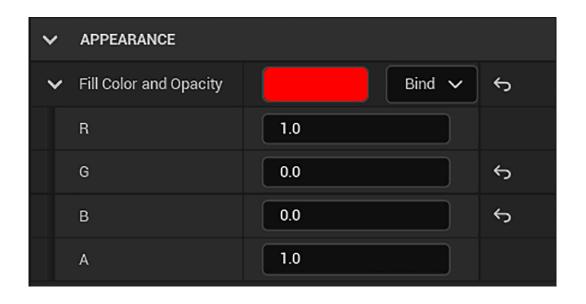


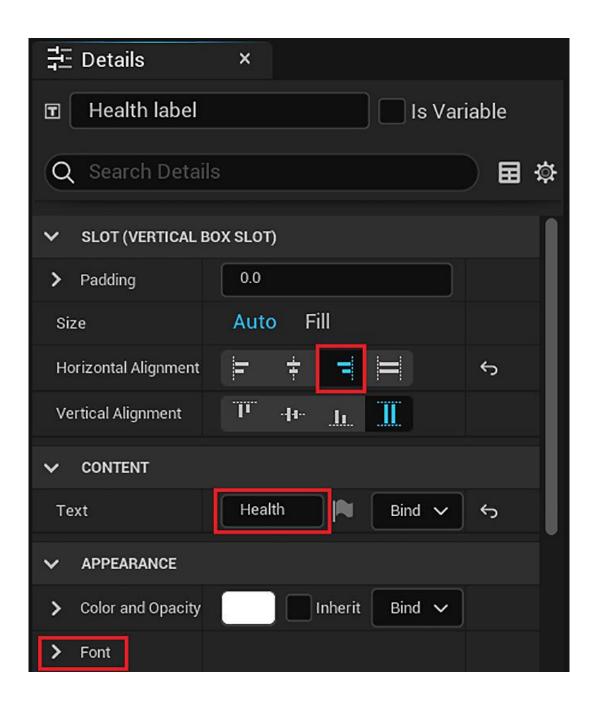


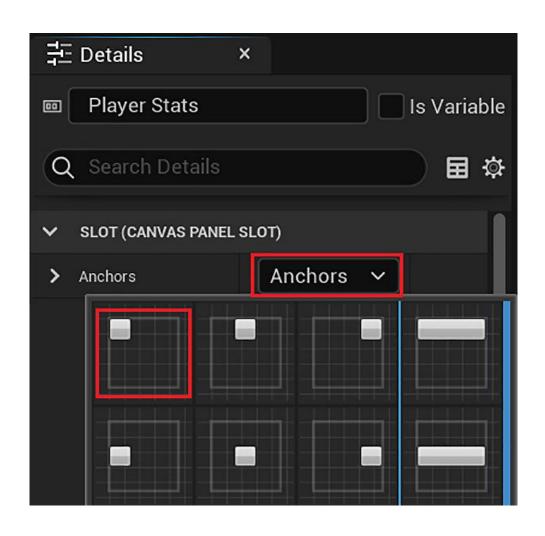


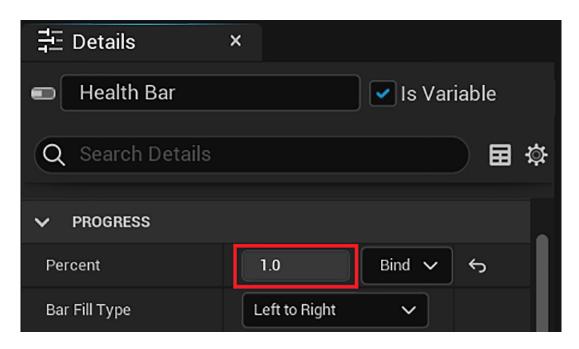




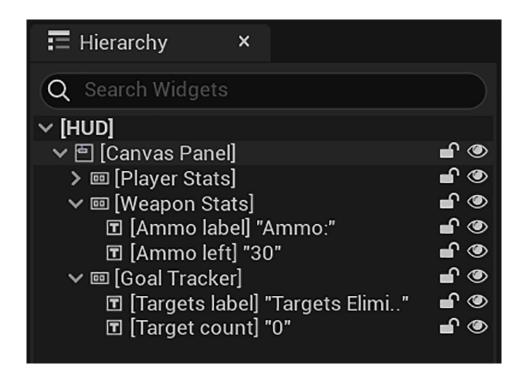


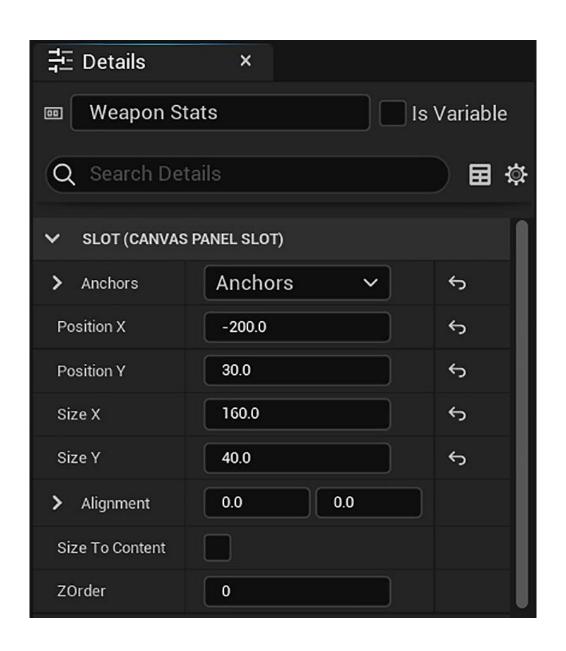


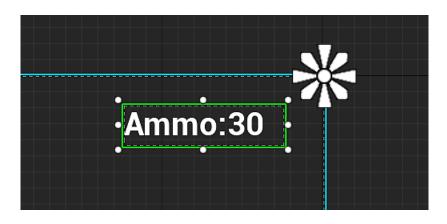


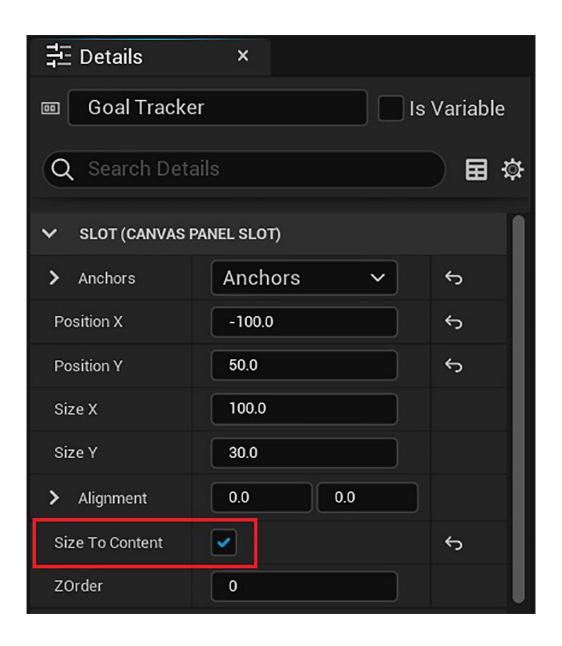


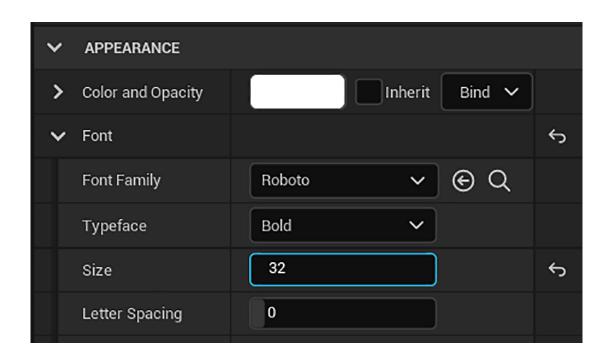
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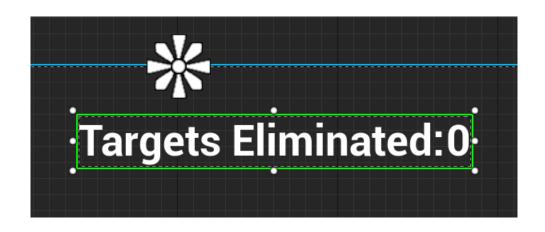


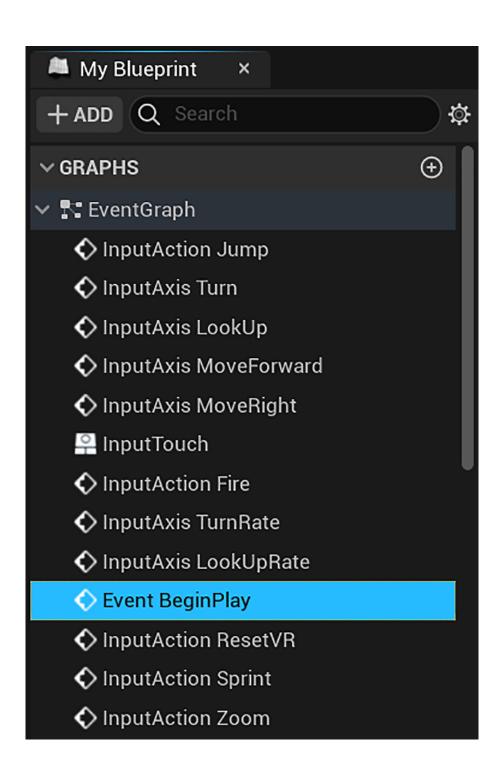


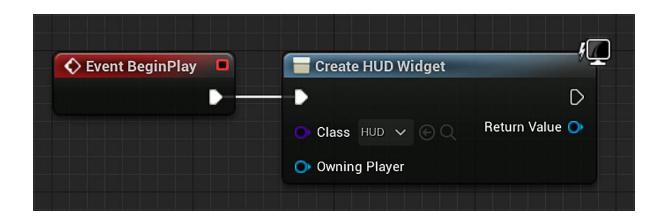




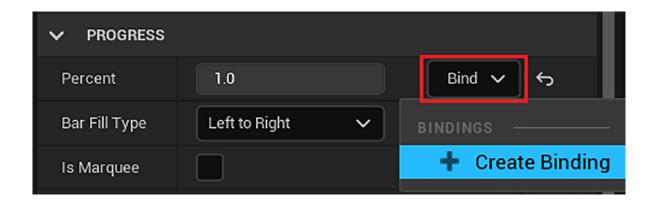


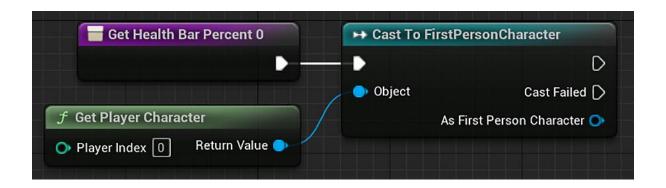


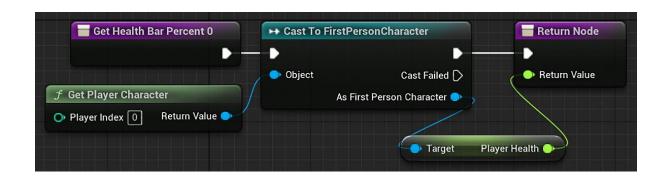


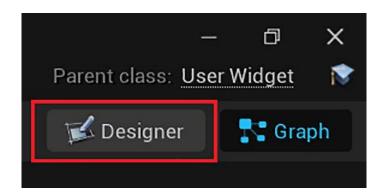


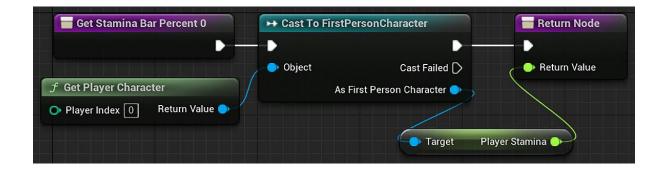


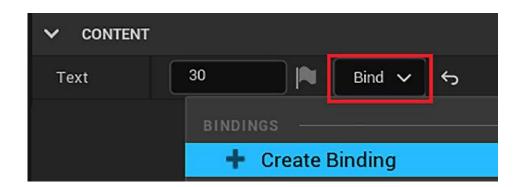


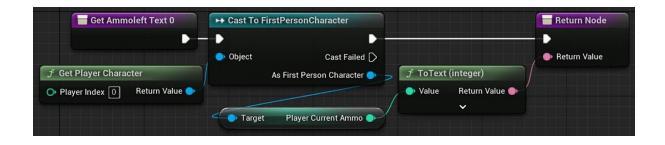




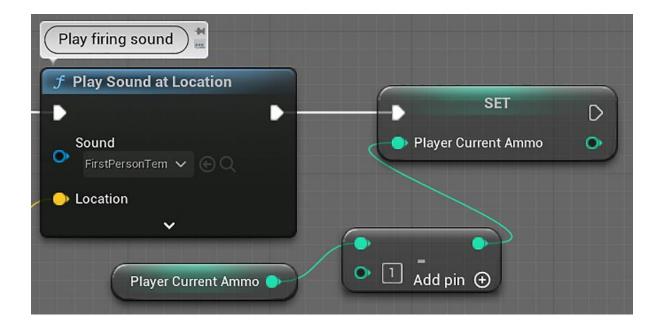


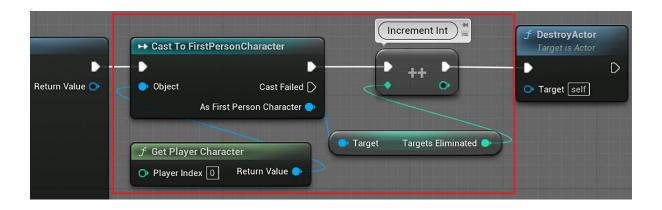






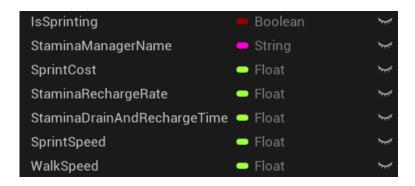


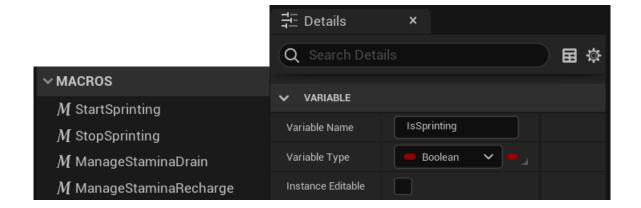


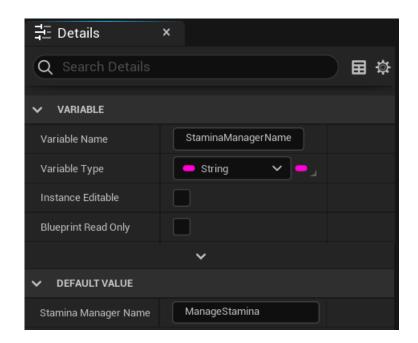


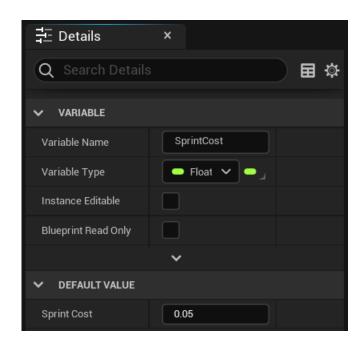


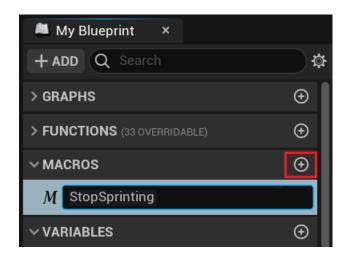
Chapter 8: Creating Constraints and Gameplay Objectives

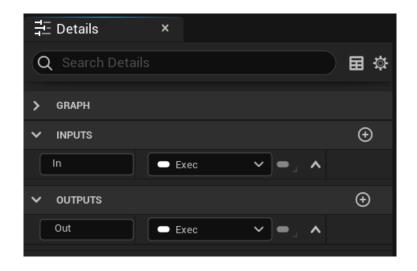


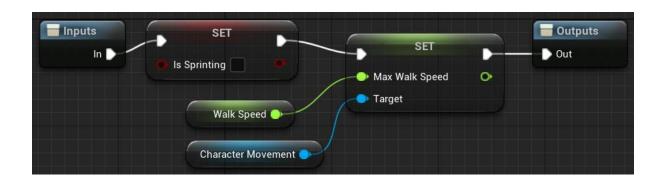


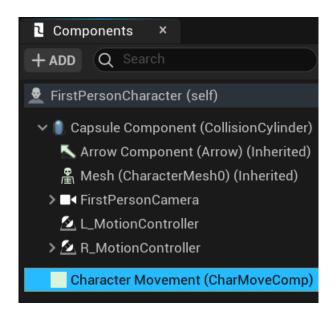


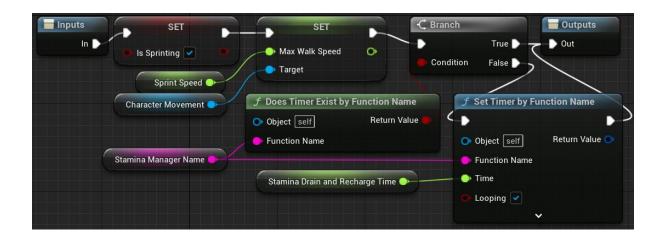


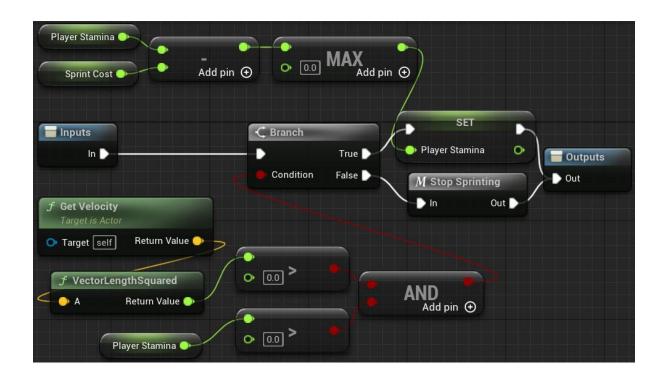


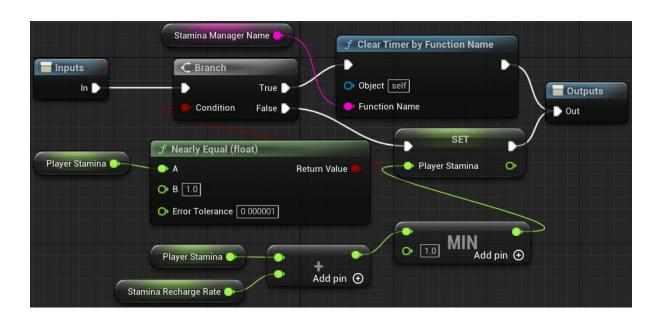


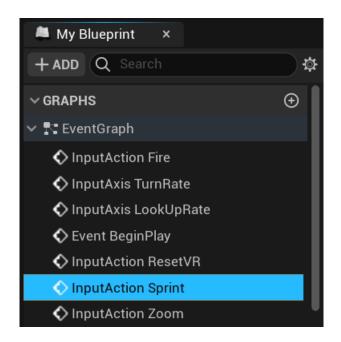


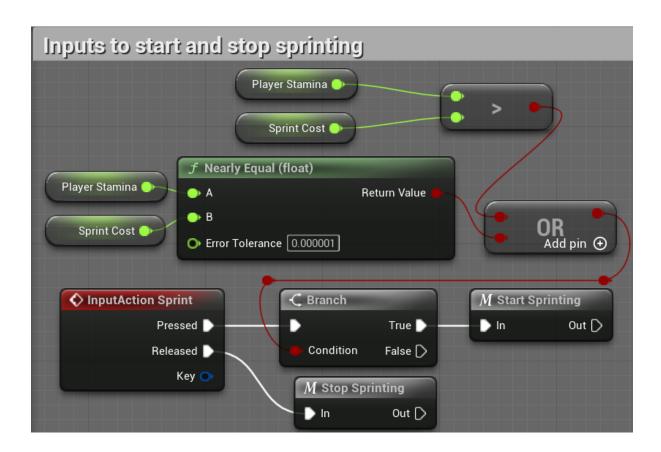


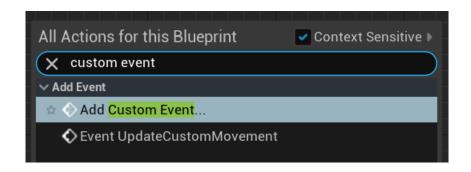


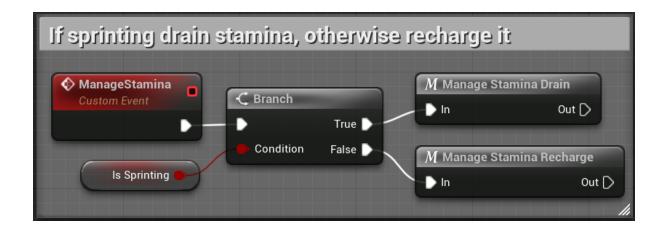


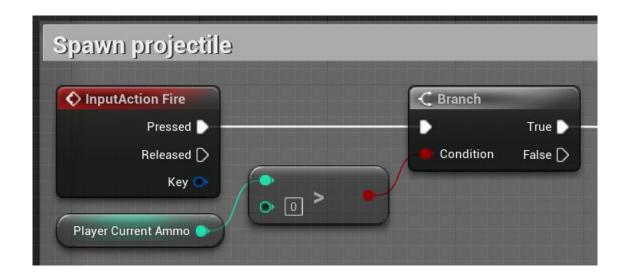


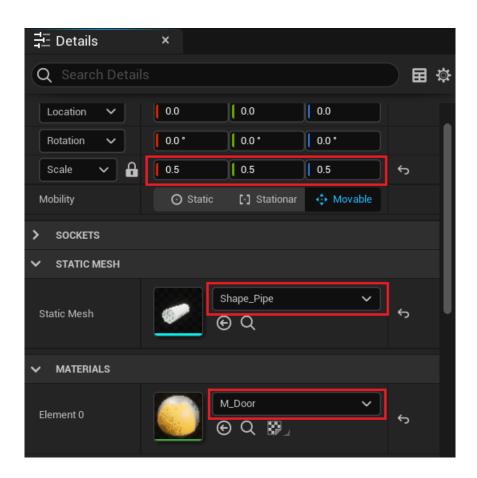


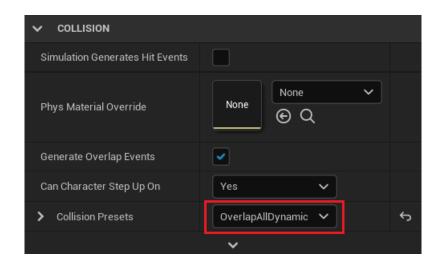


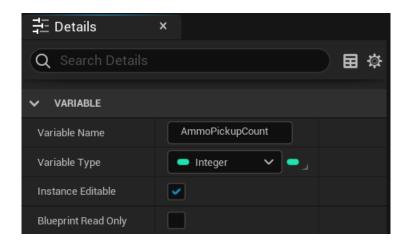


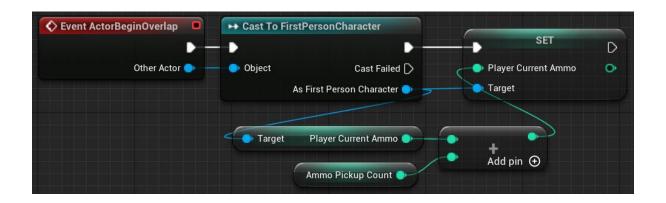




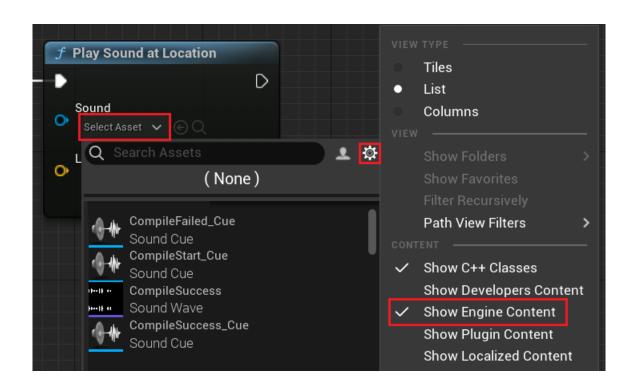




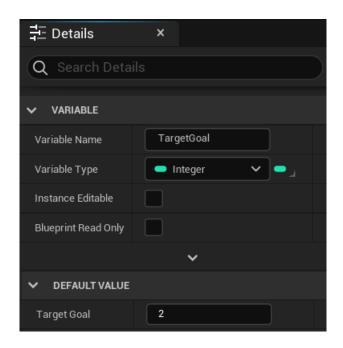


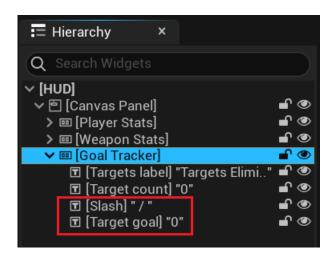




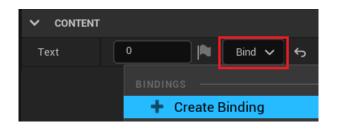


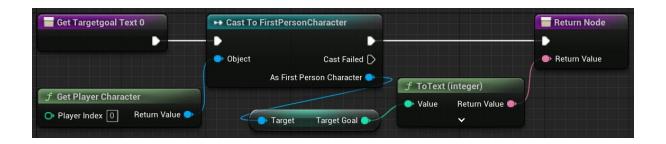


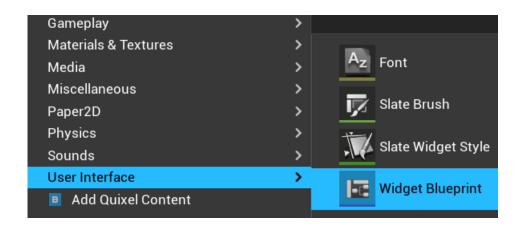


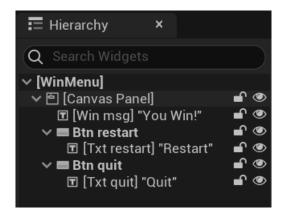


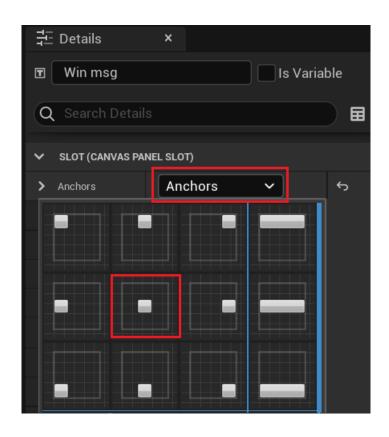
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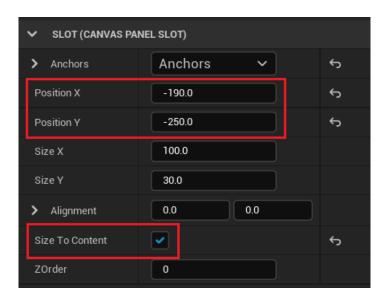


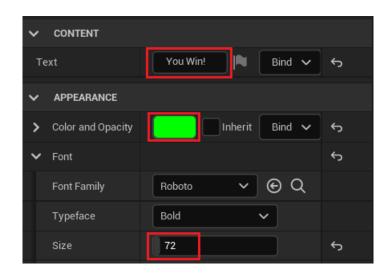


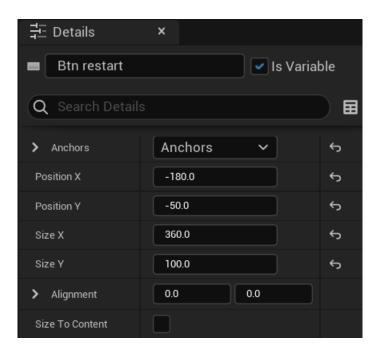


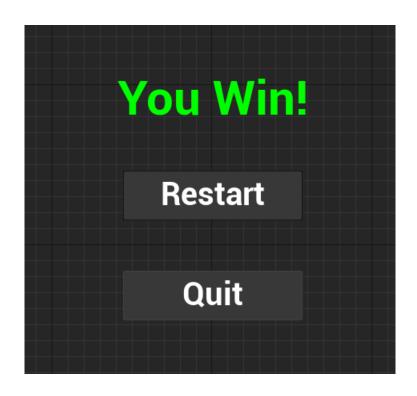


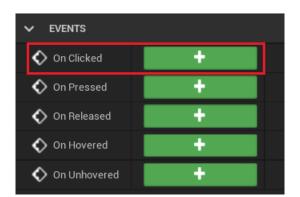


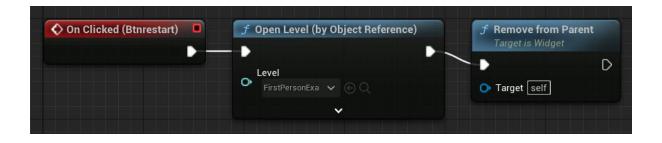




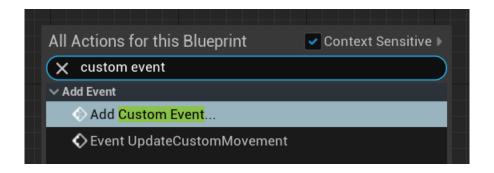




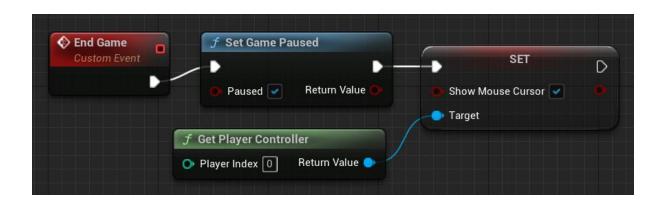




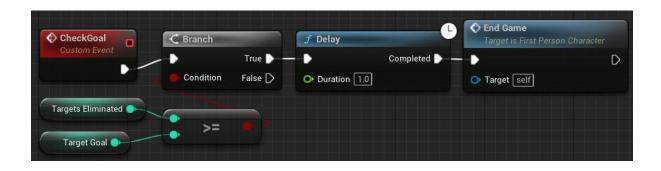


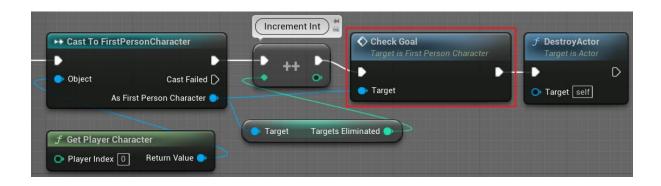






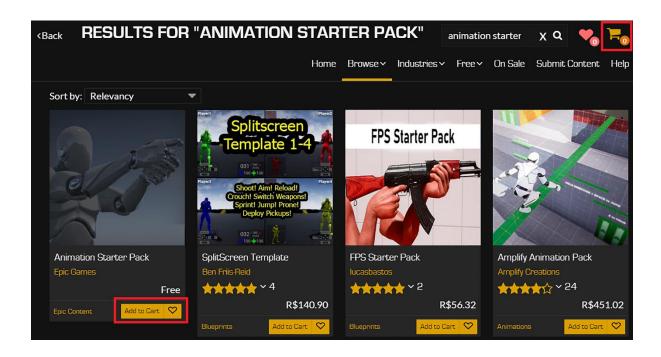


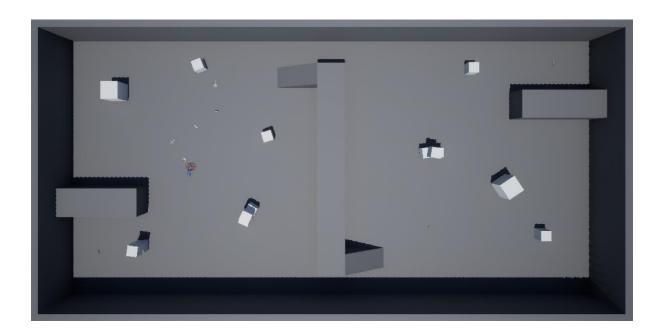


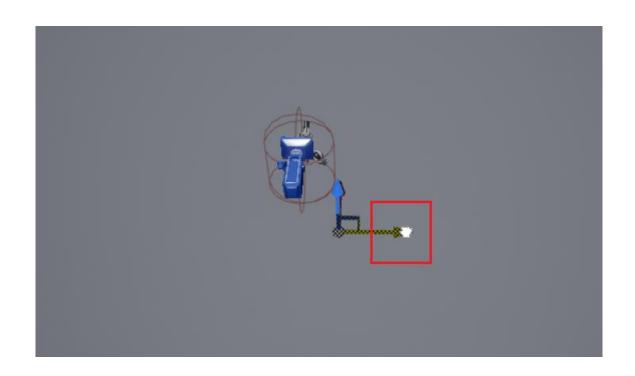


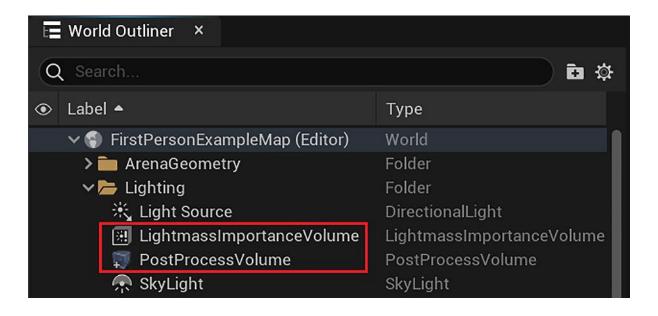


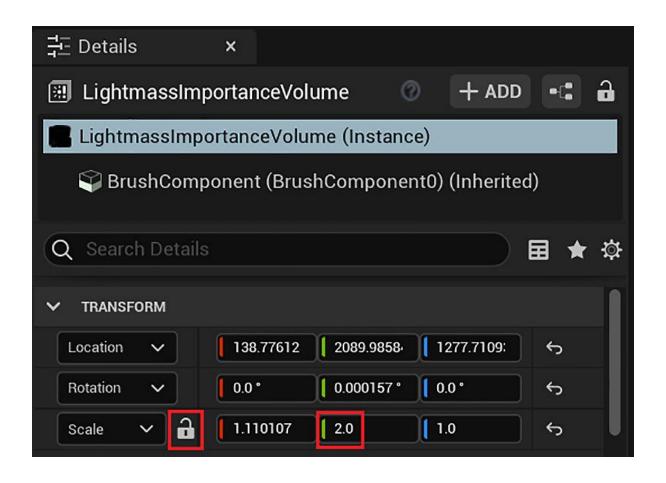
Chapter 9: Building Smart Enemies with Artificial Intelligence

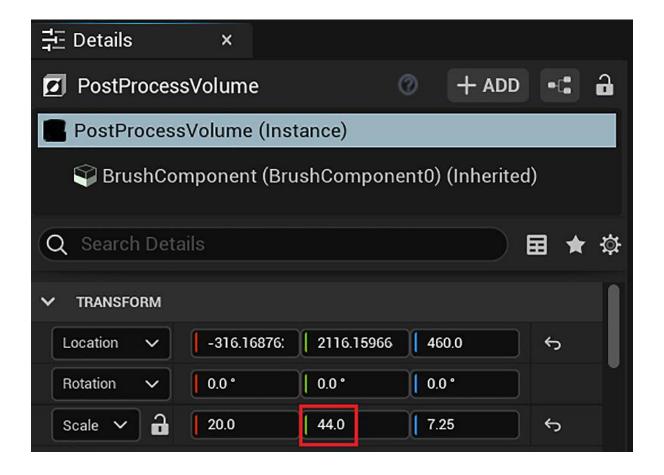


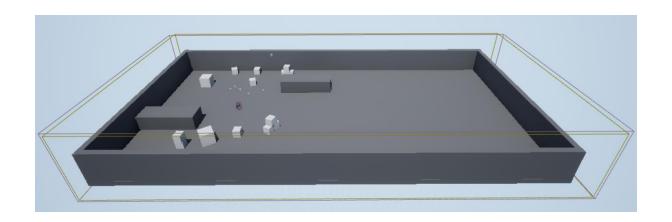


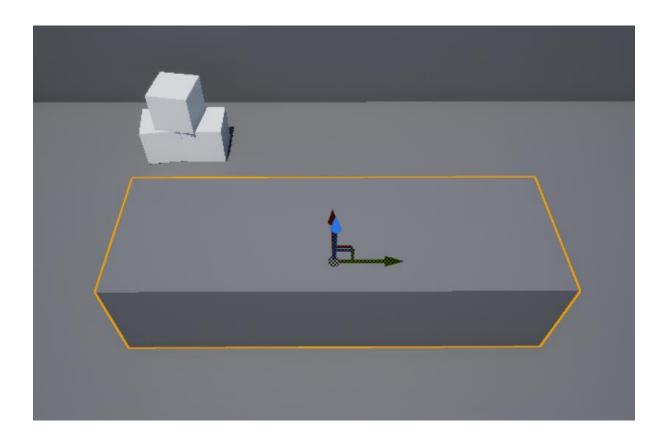


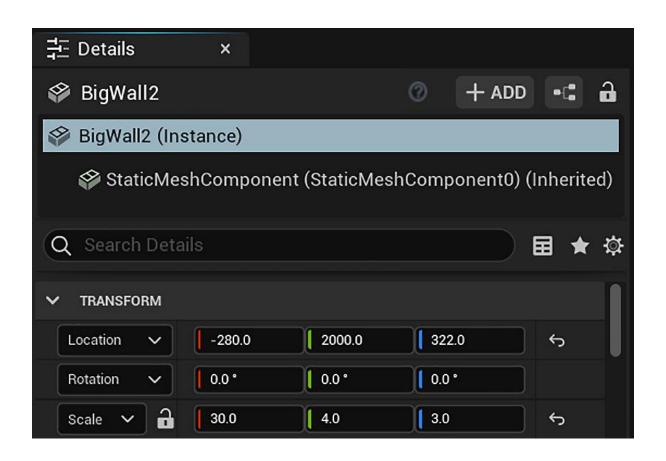


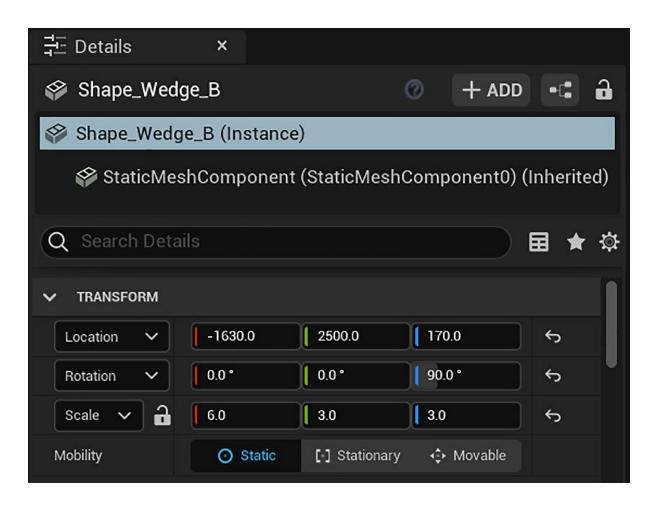


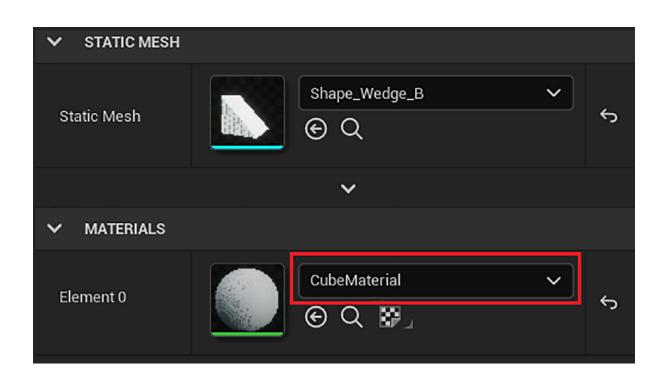


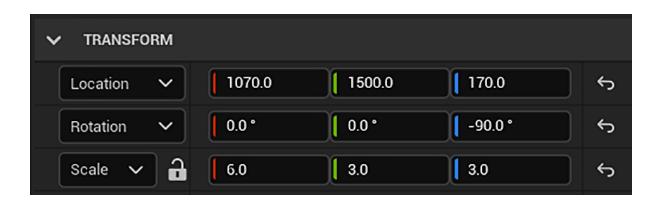


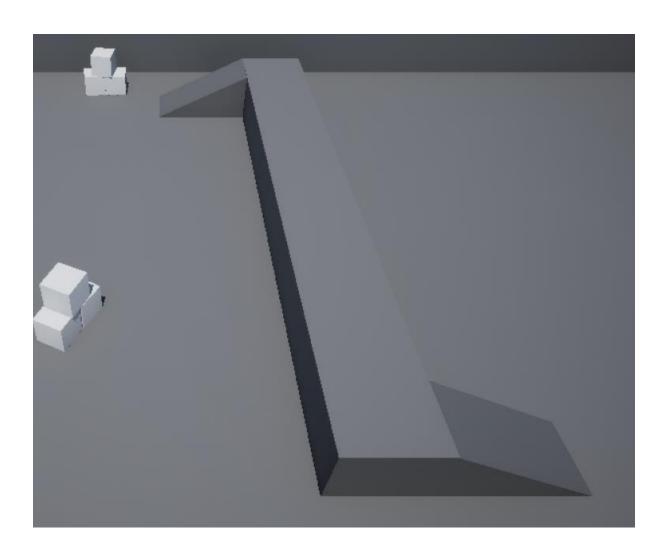


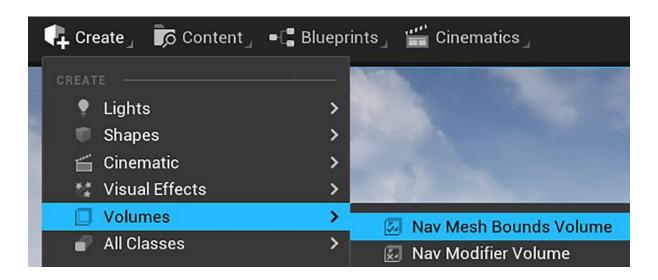


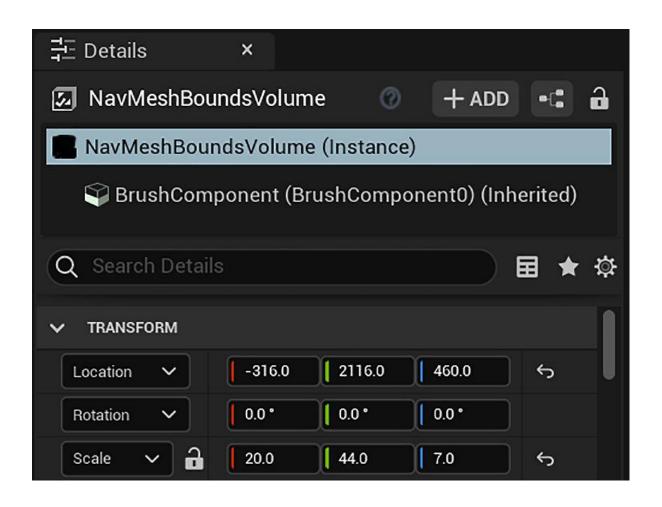




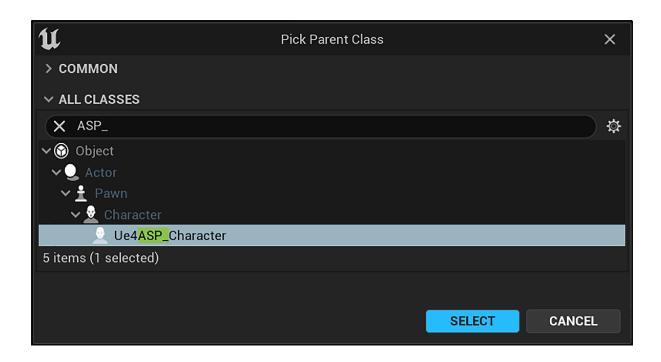


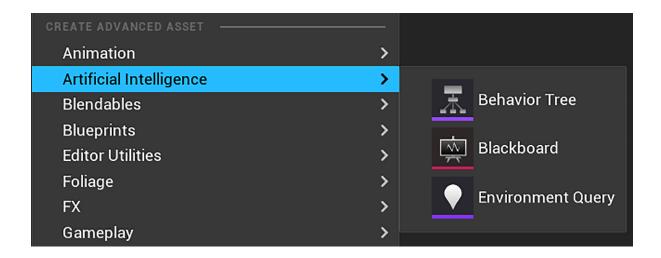


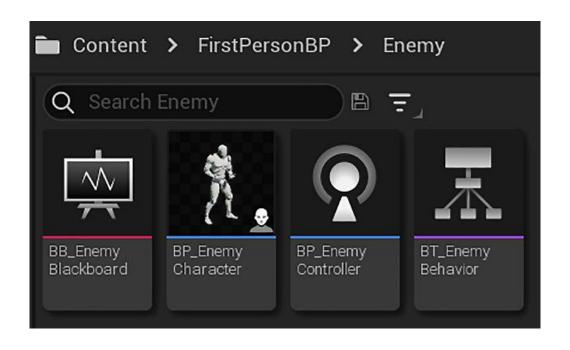


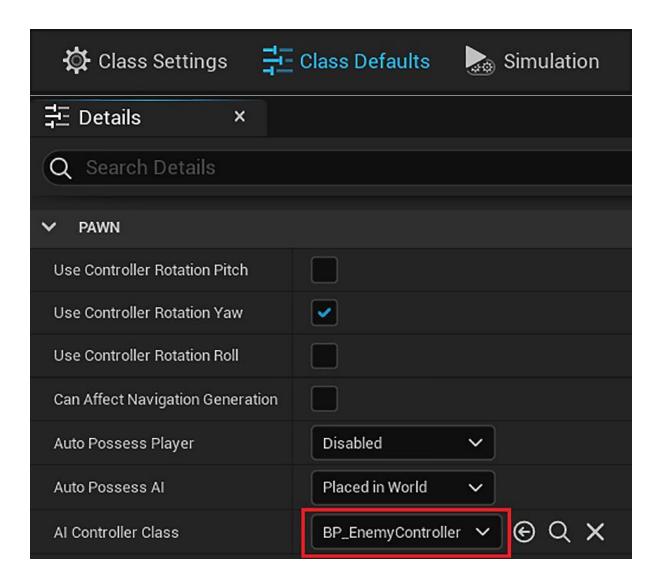


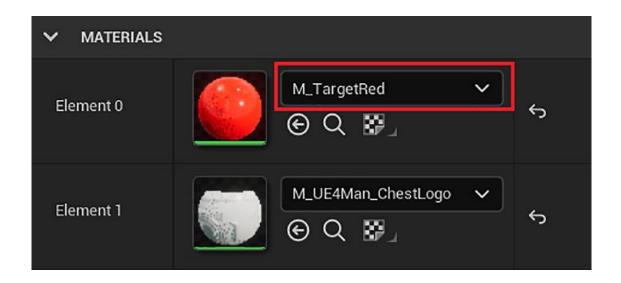


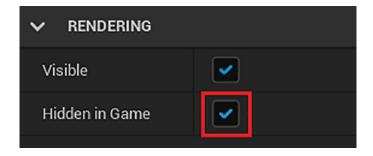


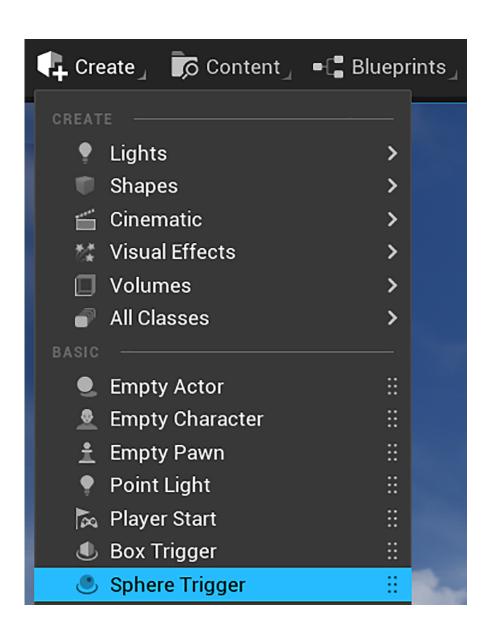


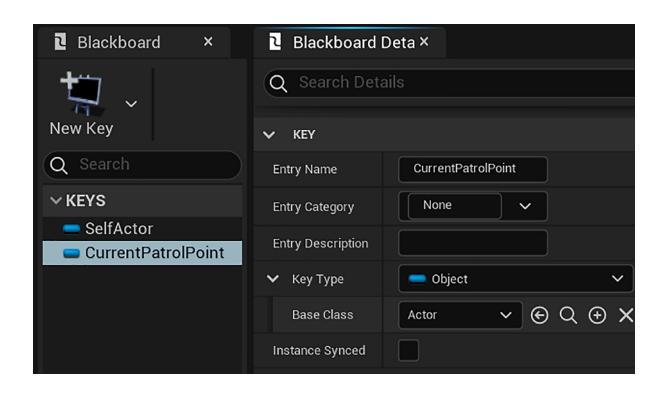


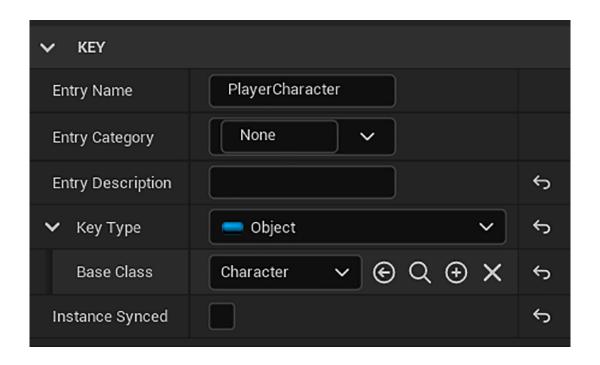


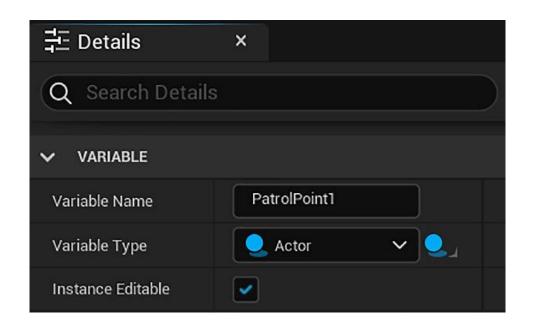


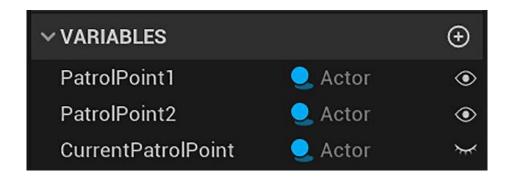


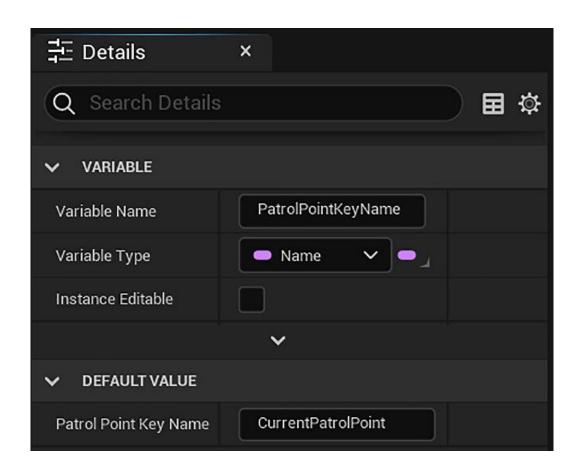


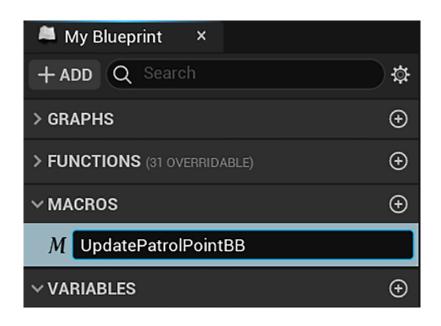


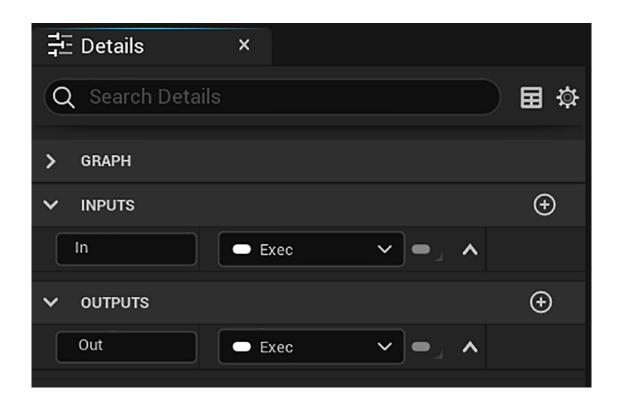


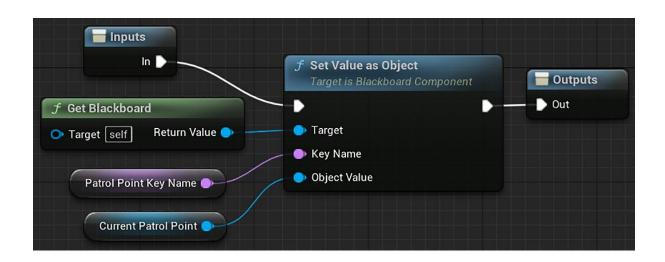




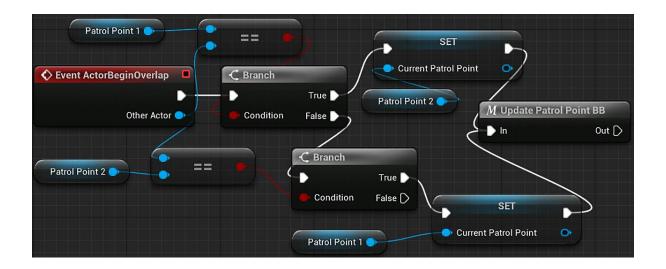




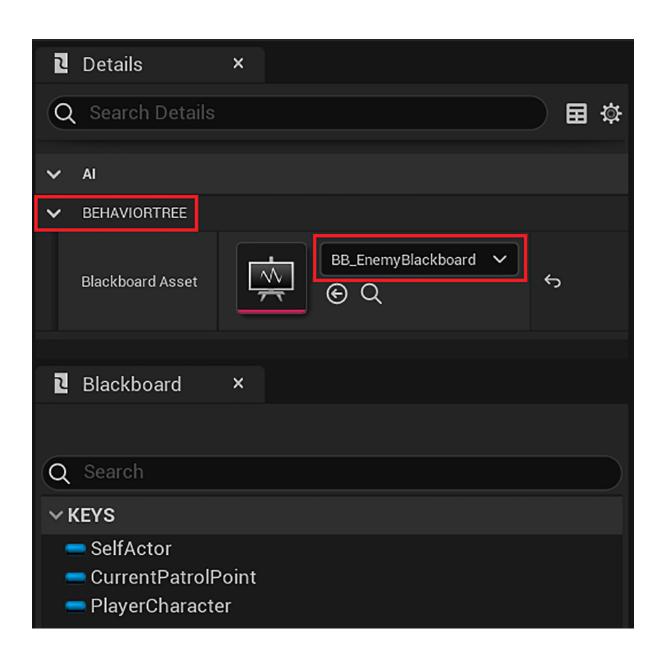


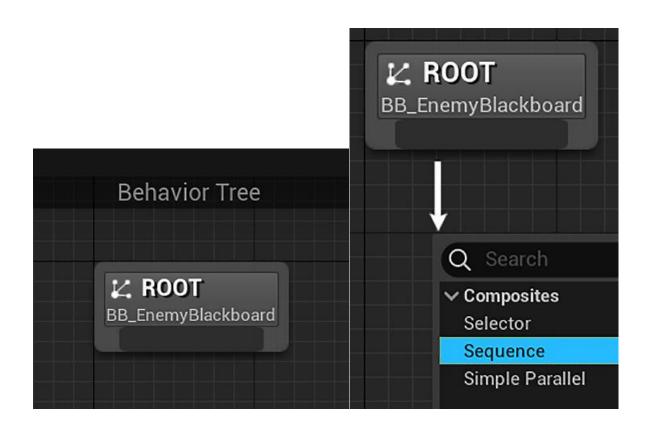


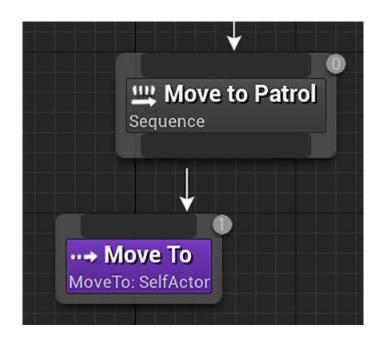


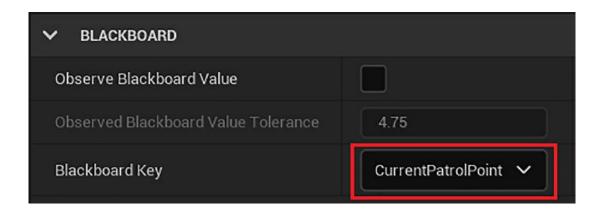




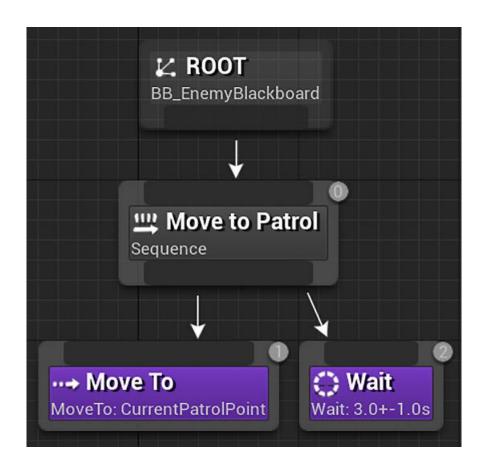


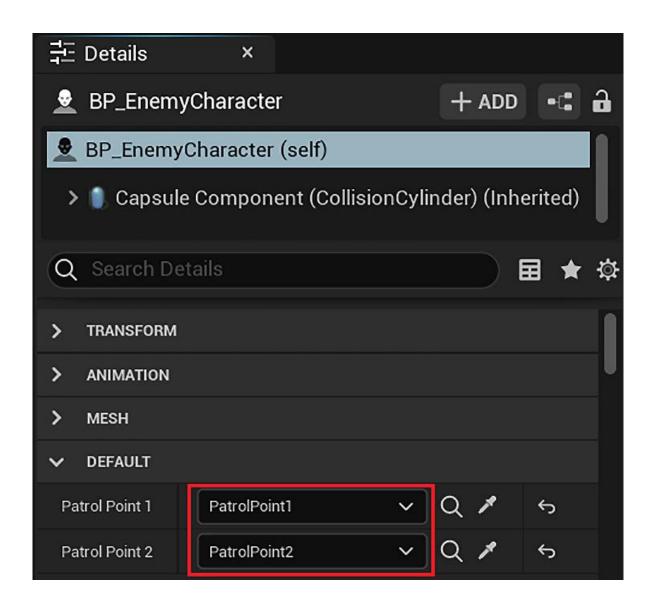


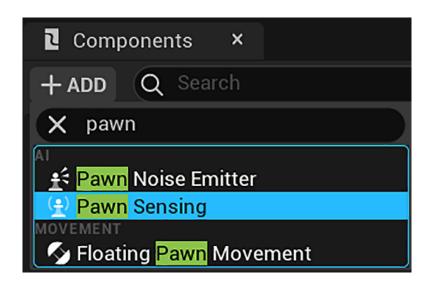


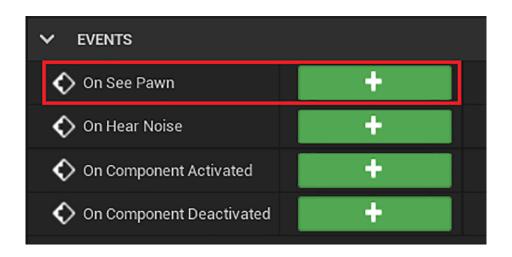


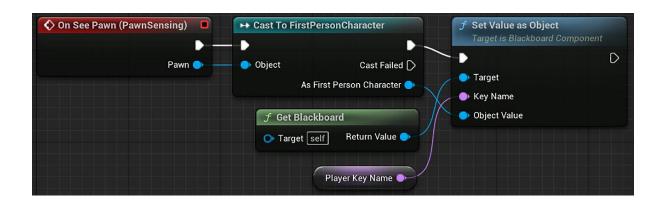


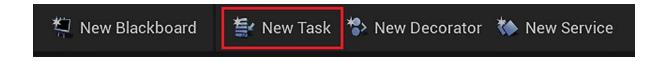


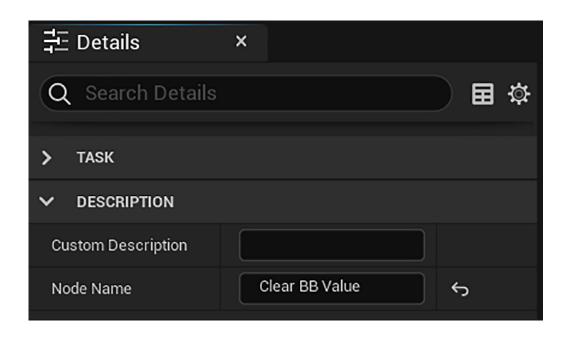


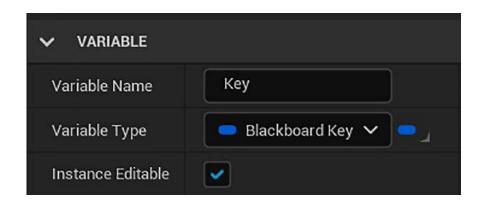


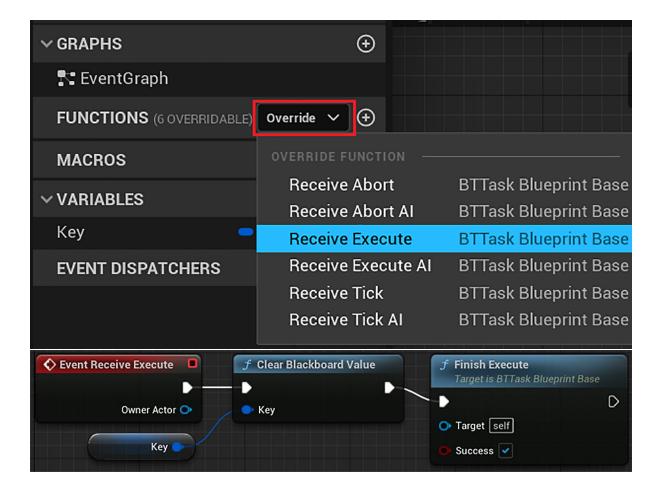


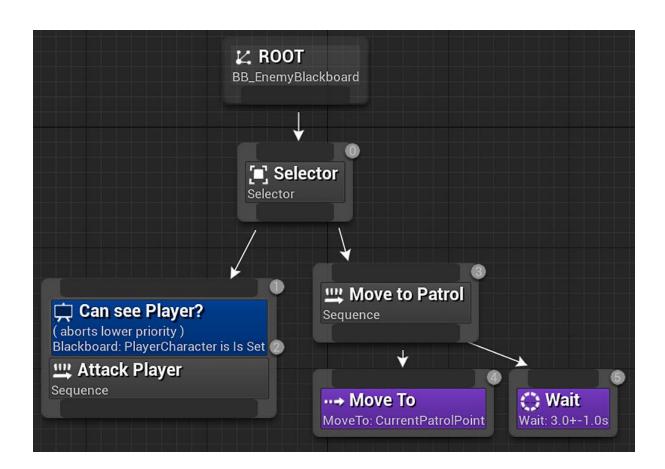


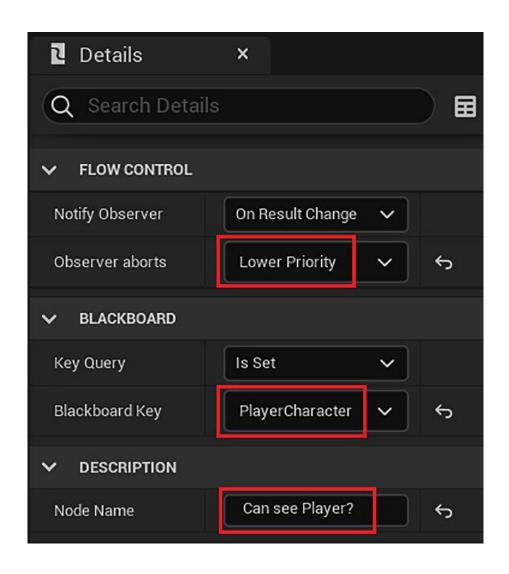


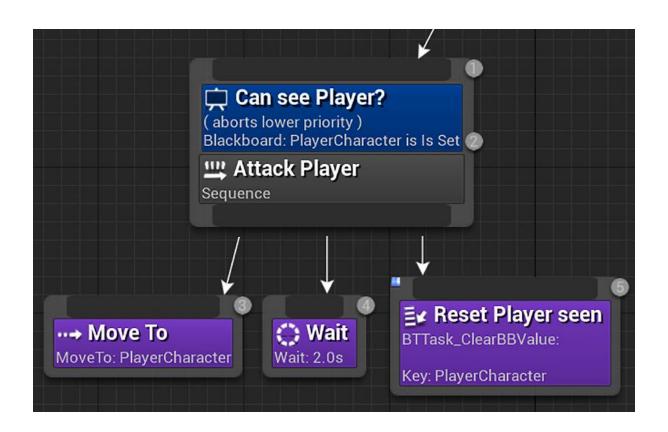


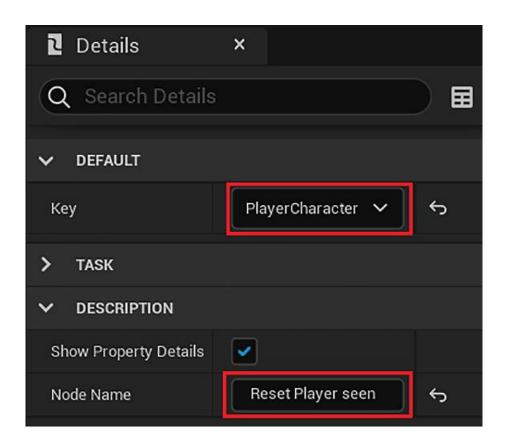




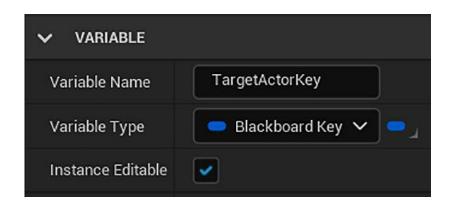


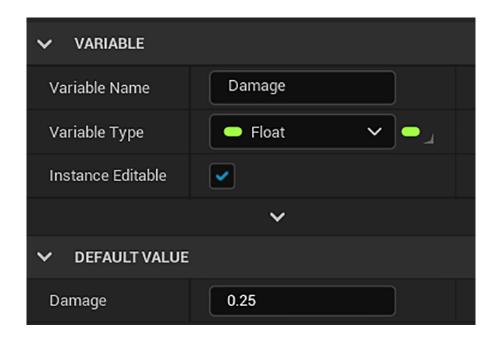




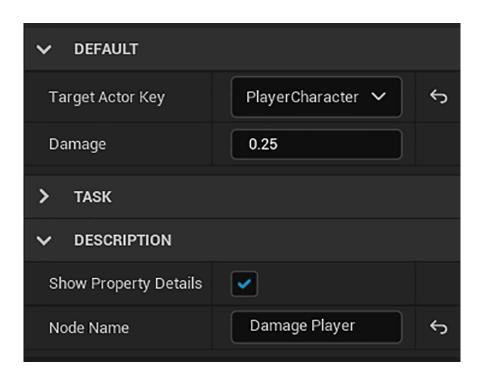


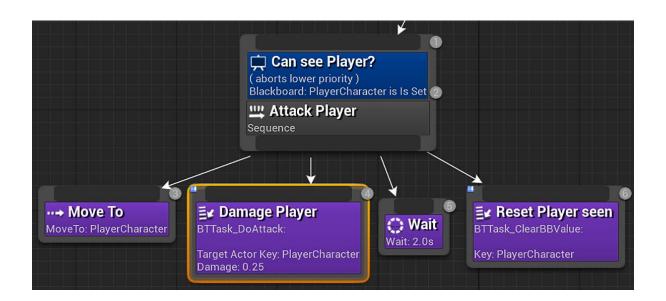
Chapter 10: Upgrading the AI Enemies

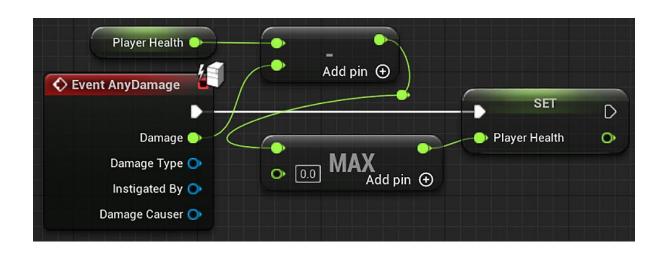


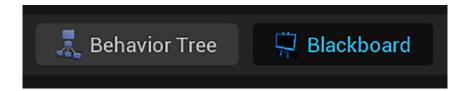


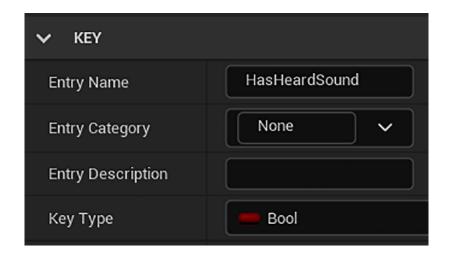


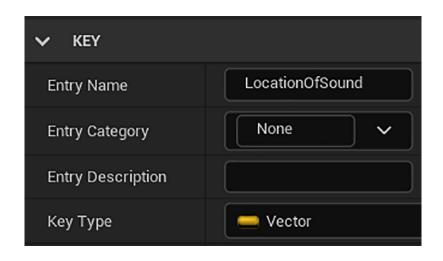


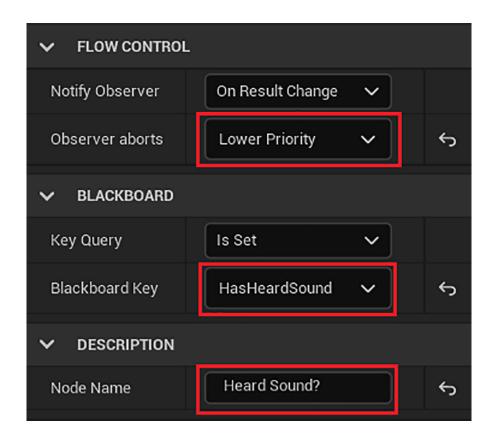


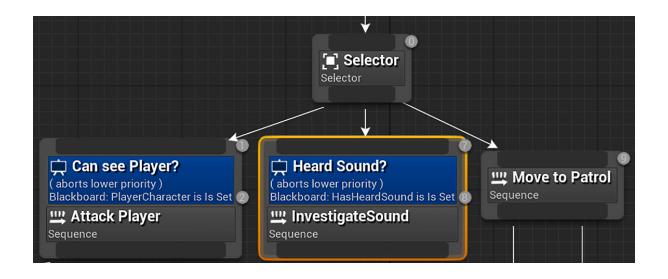


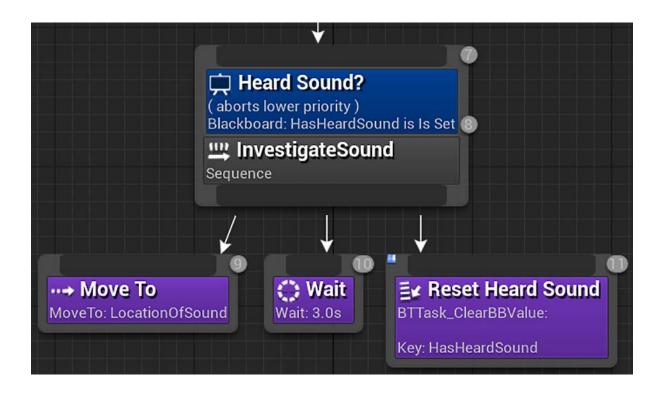


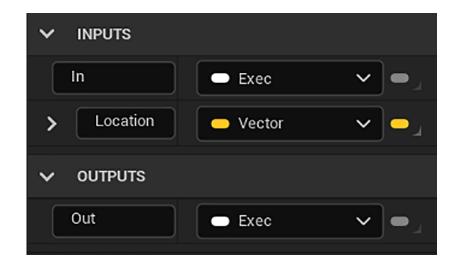


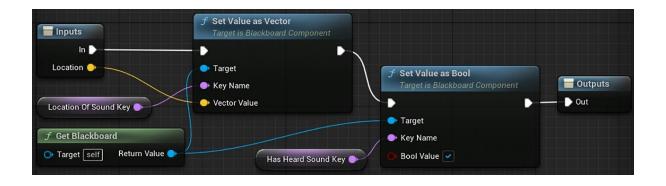


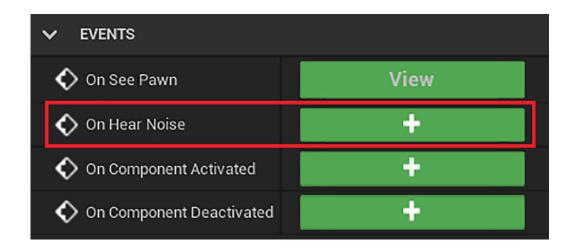


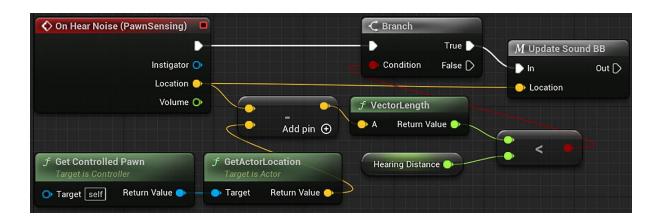


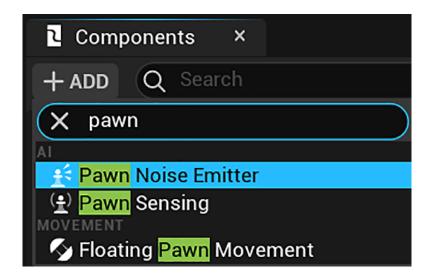


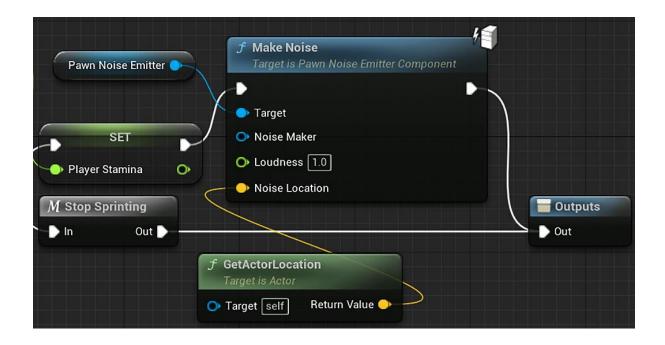


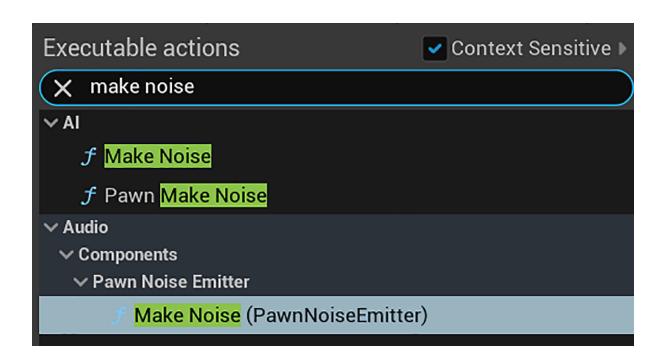


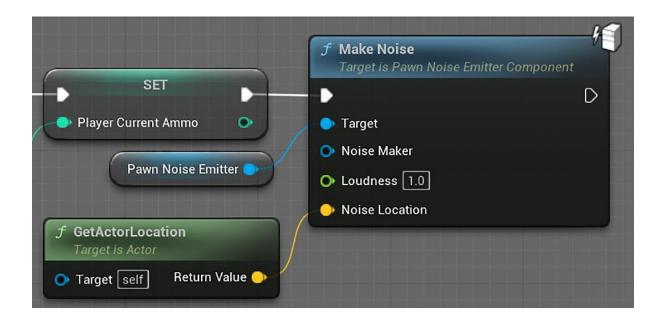


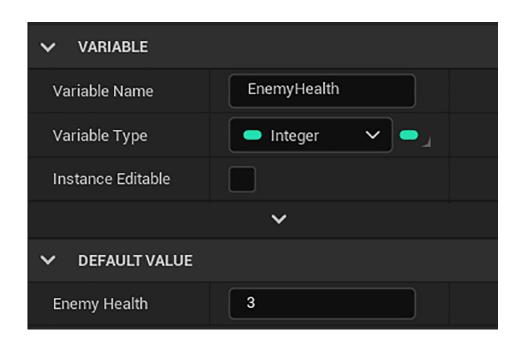


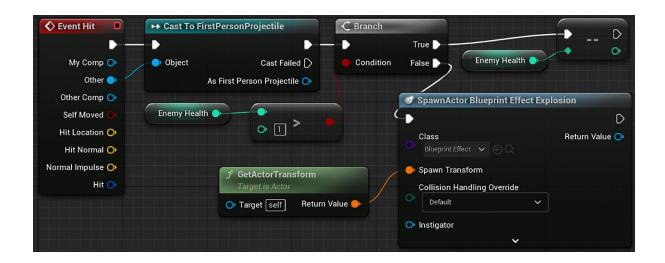


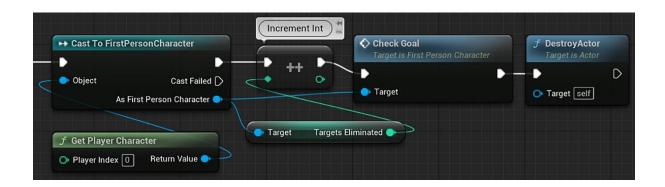


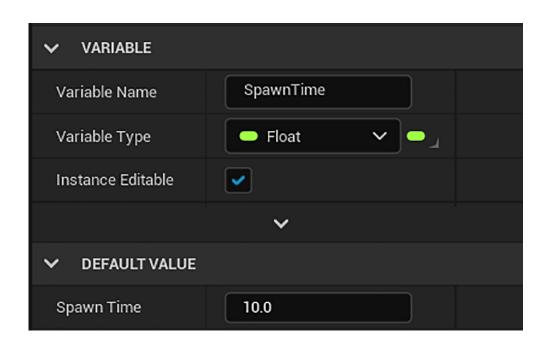


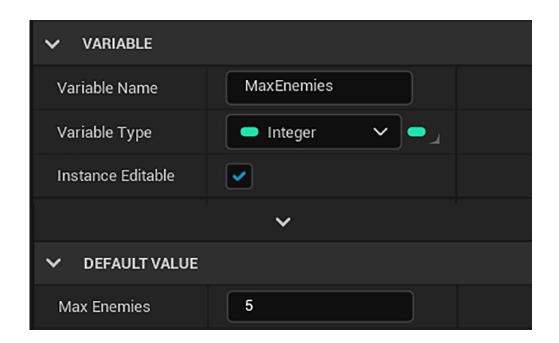


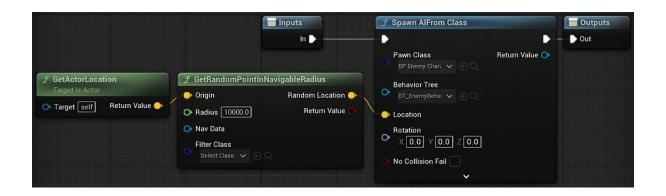


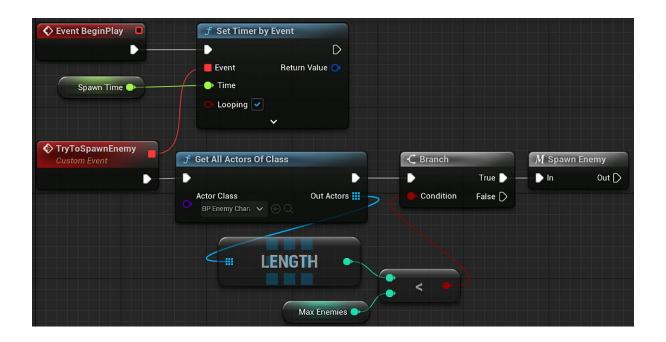


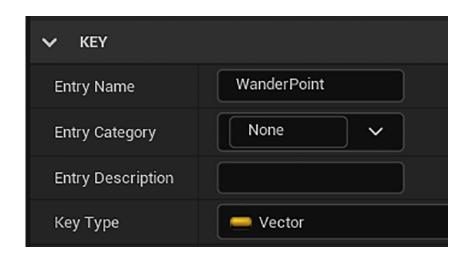


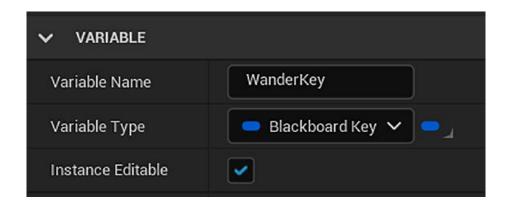


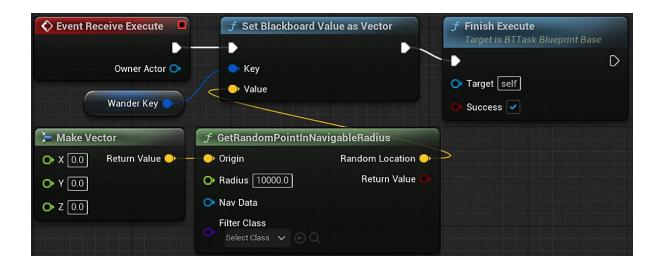


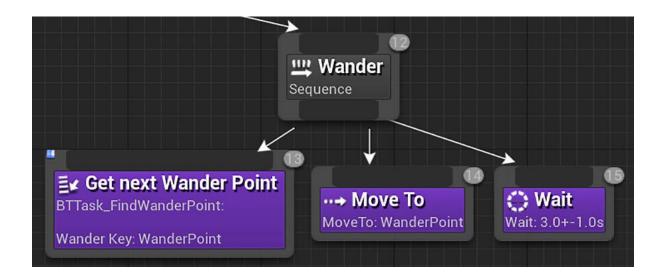


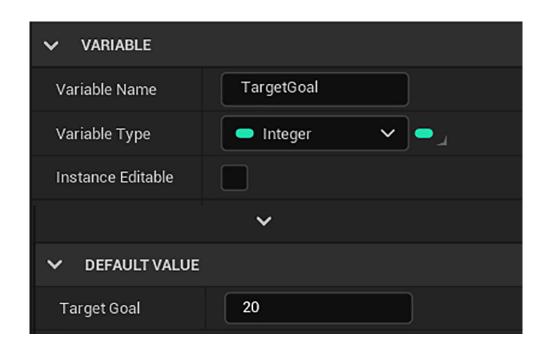


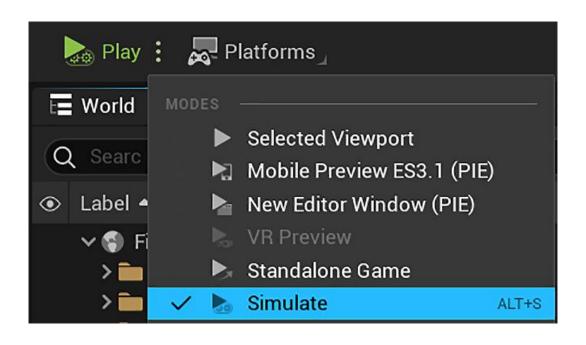




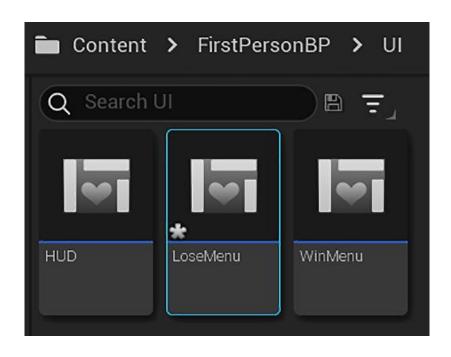


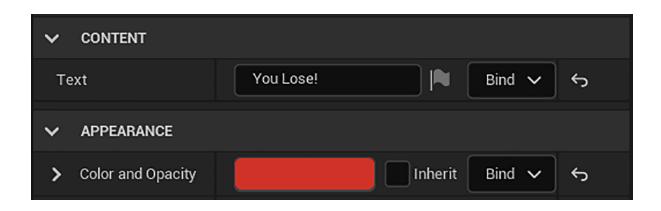


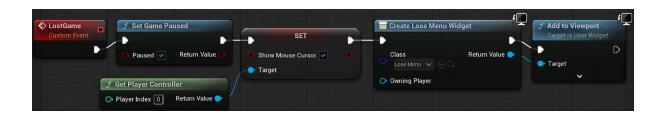


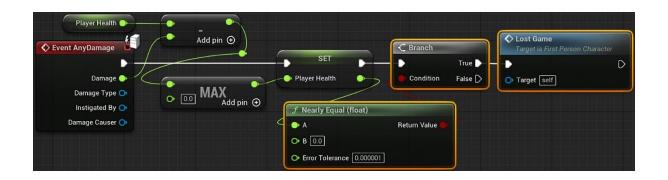


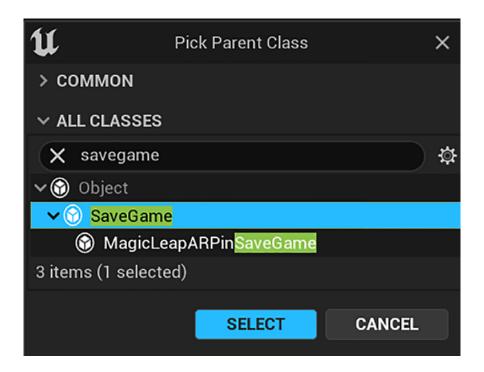
Chapter 11: Game States and Applying Finishing Touches

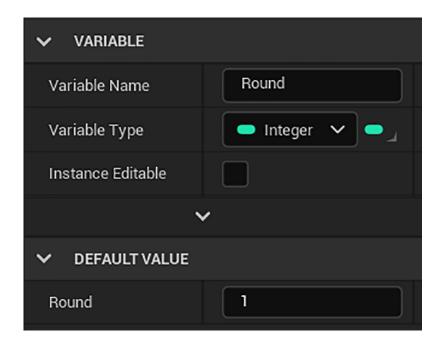




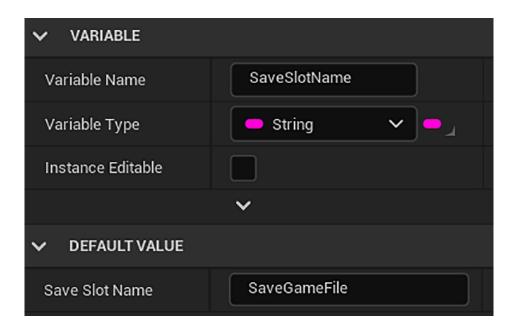


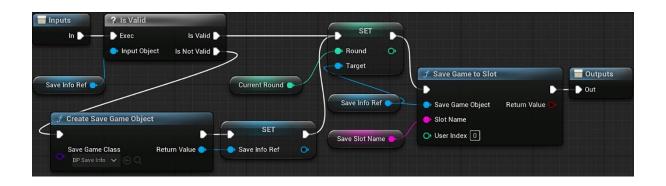


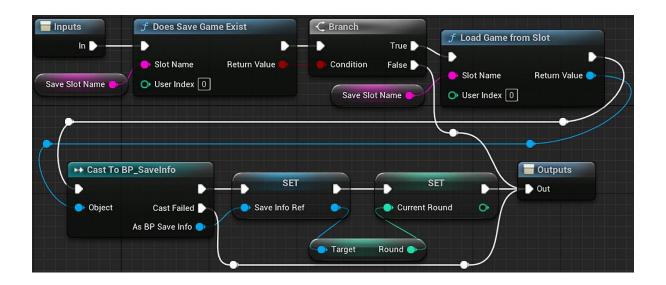


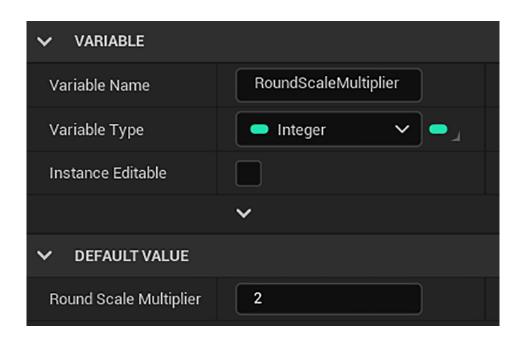


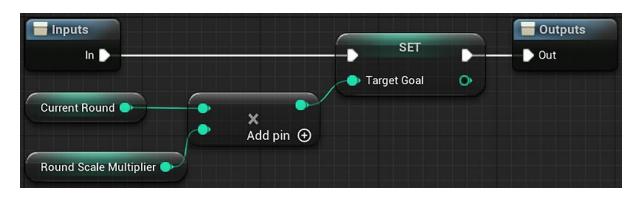




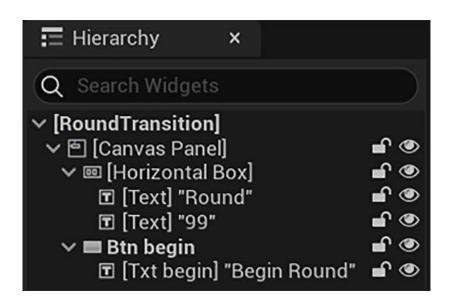


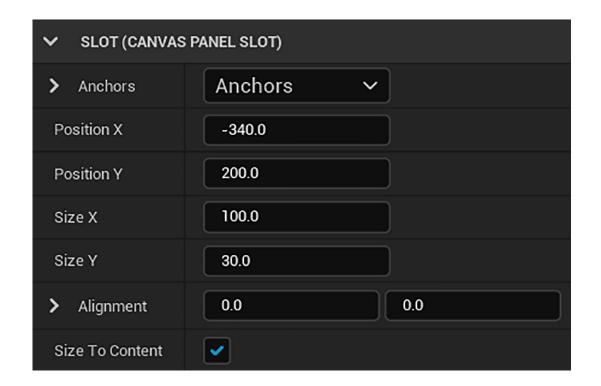


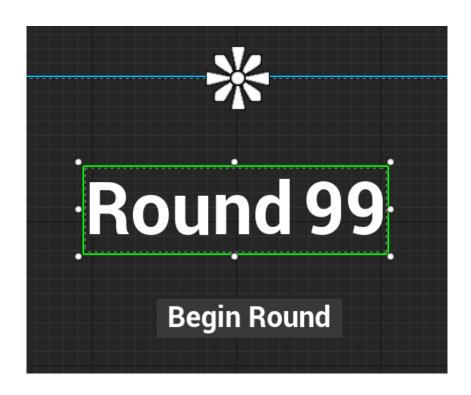


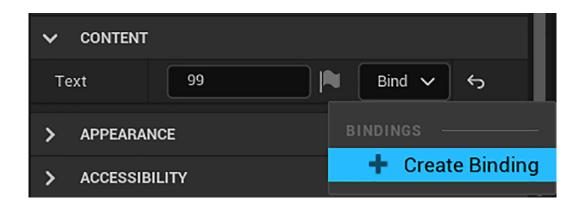


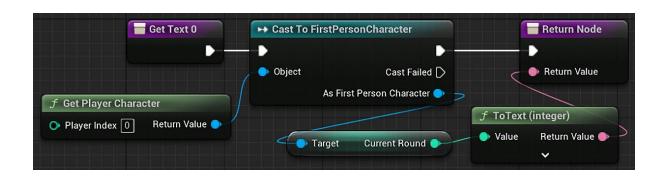


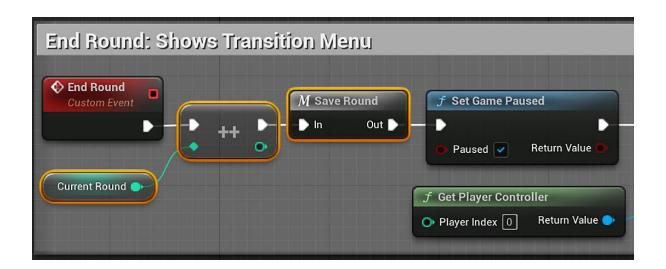




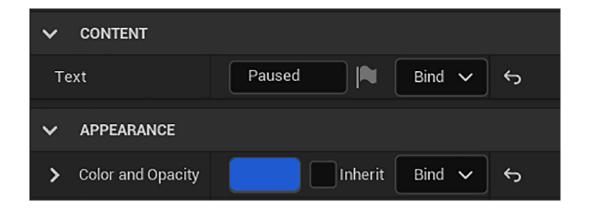


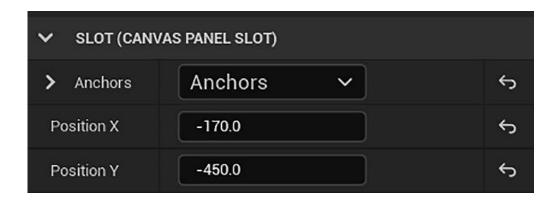


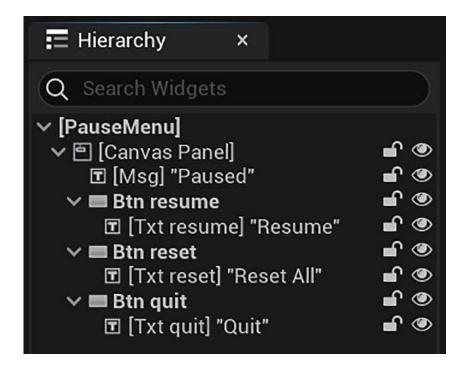


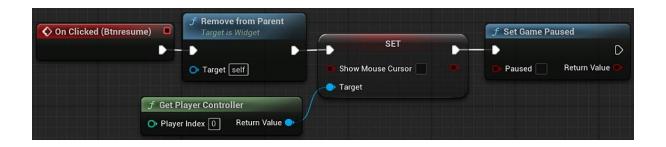


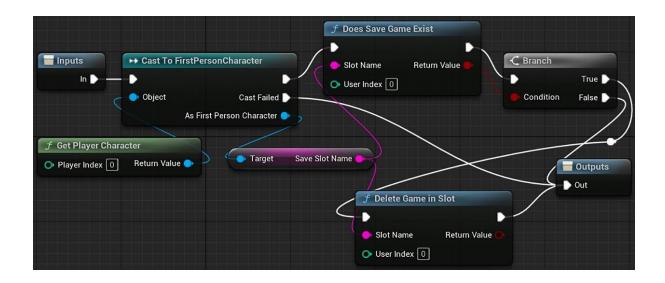


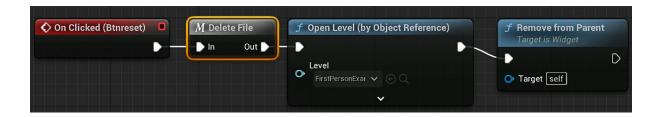


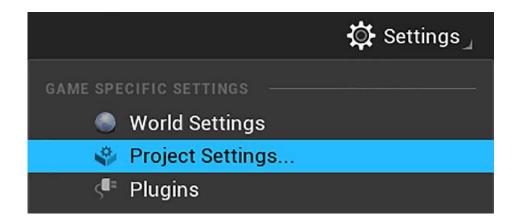


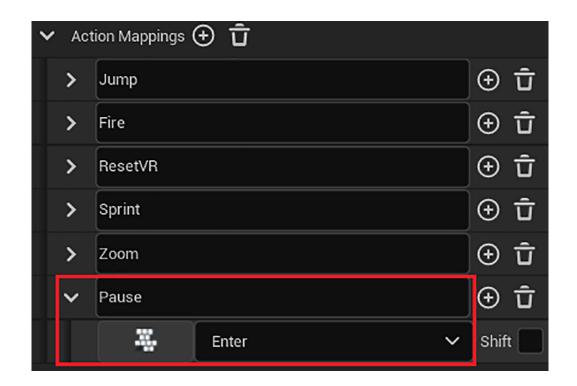






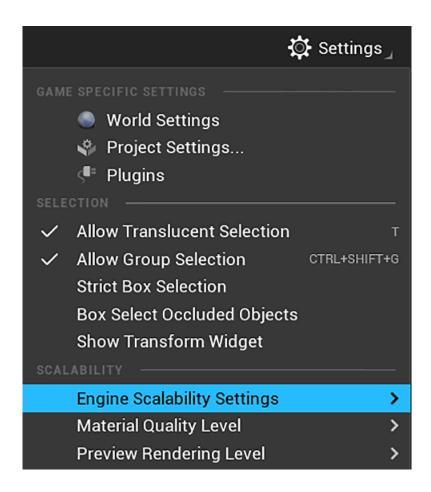




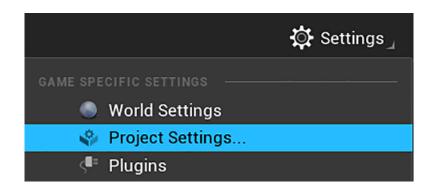


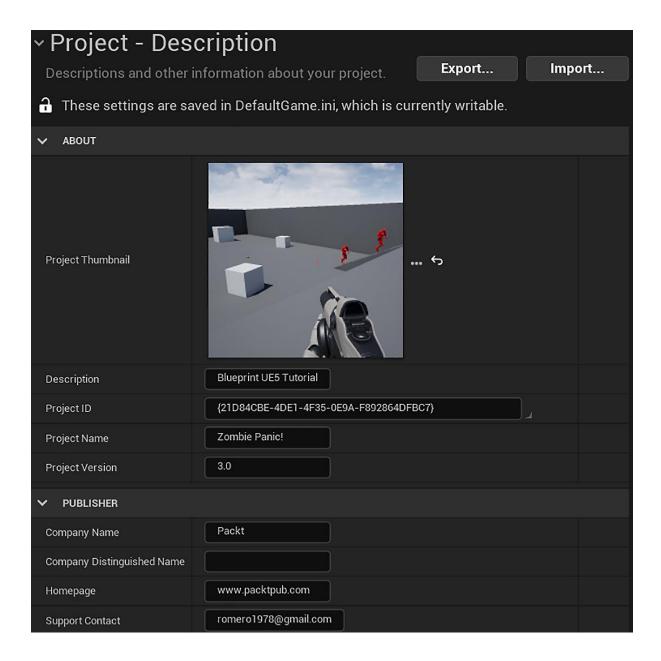


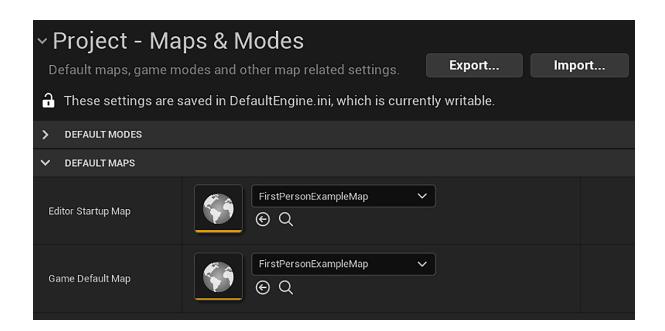
Chapter 12: Building and Publishing



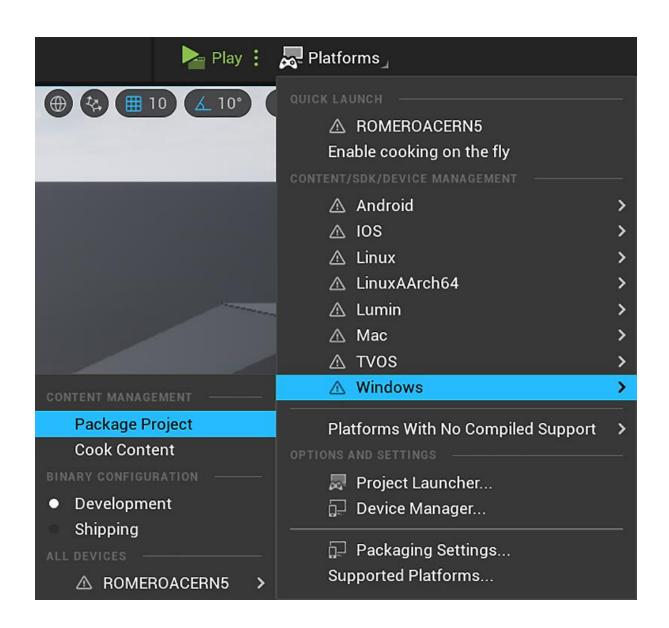
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Shadows	Low	Medium	High	Epic	Cinematic
Textures	Low	Medium	High	Epic	Cinematic
Effects	Low	Medium	High	Epic	Cinematic
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Monitor Editor	Performanc	e?			

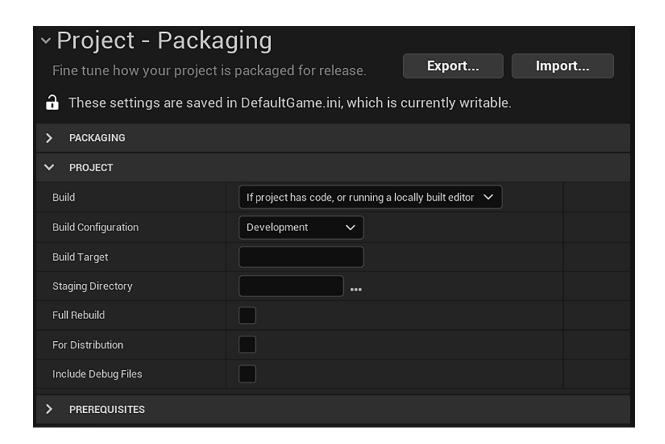


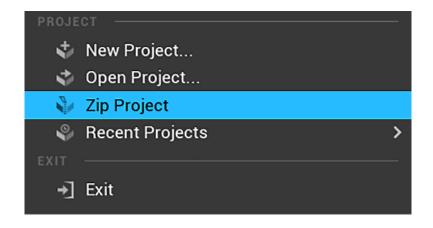




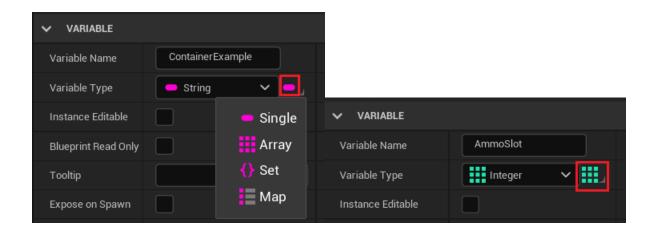






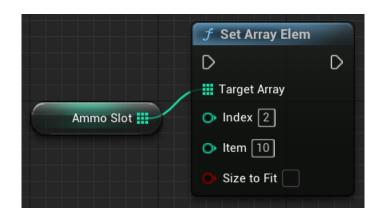


Chapter 13: Data Structures and Flow Control





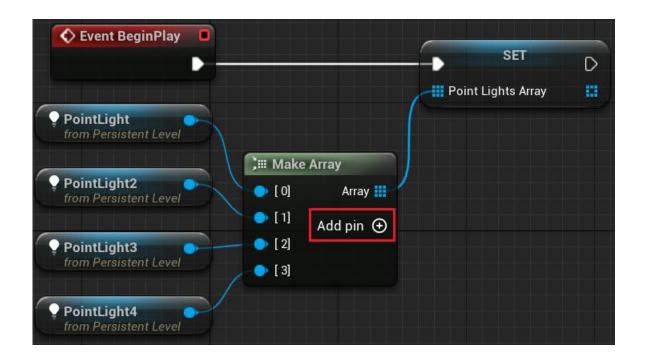


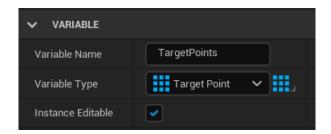


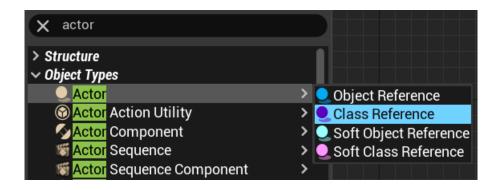


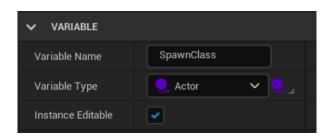


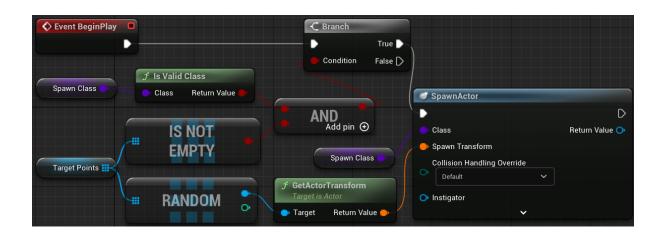


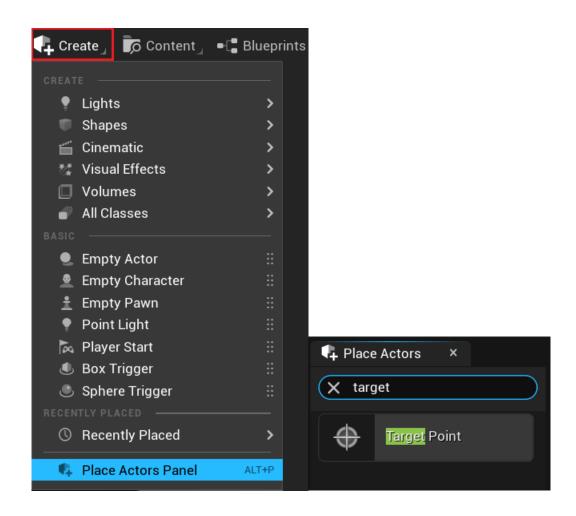


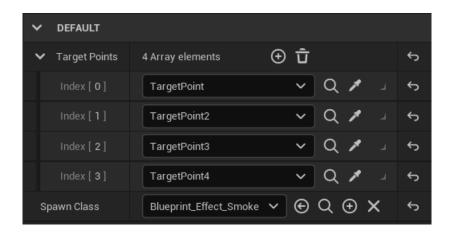




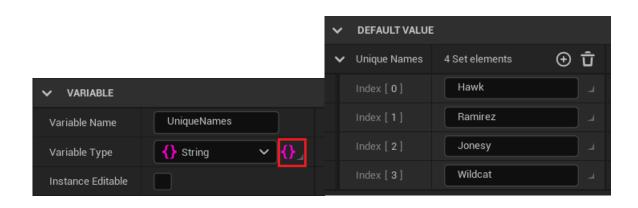








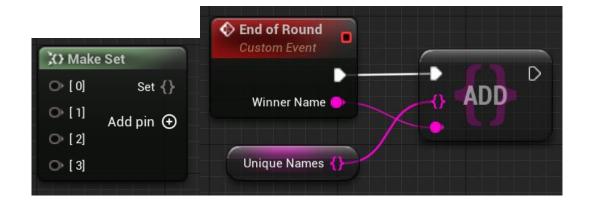




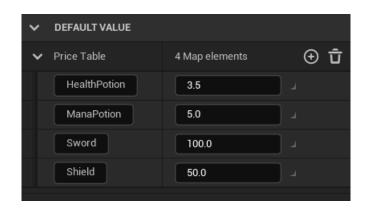






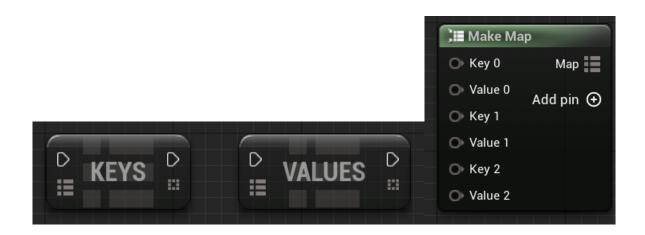


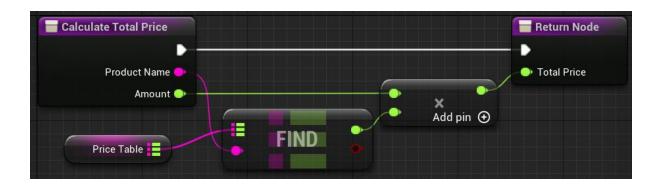


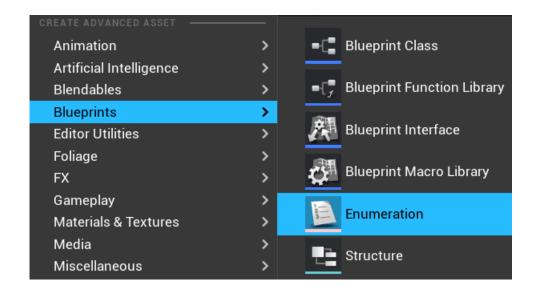


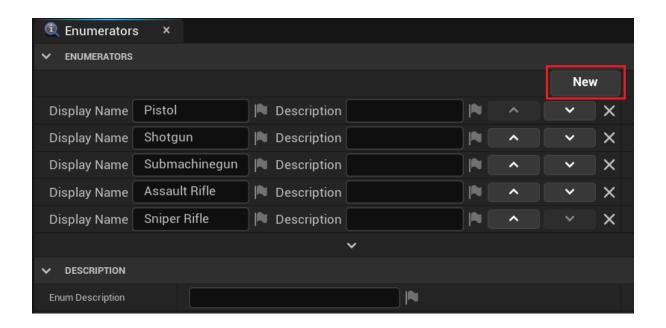


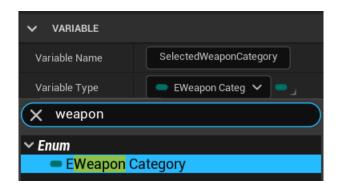


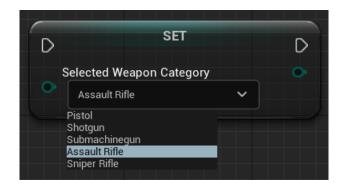


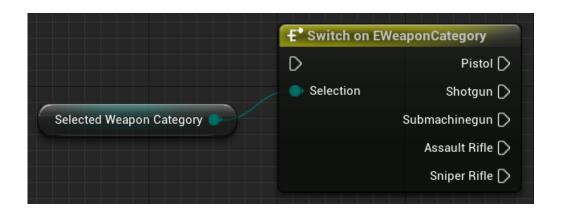


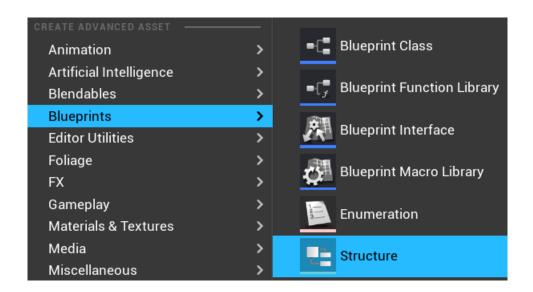


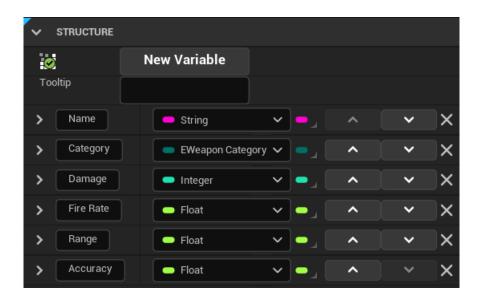


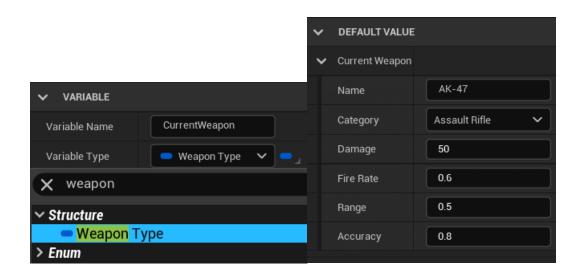


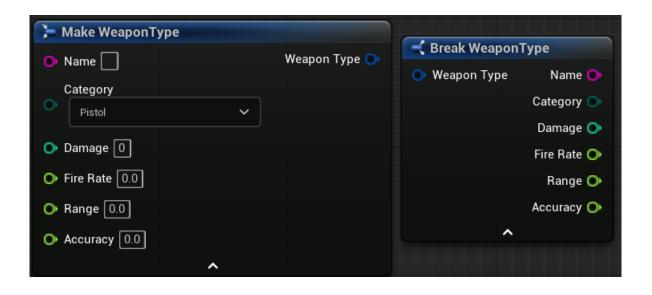


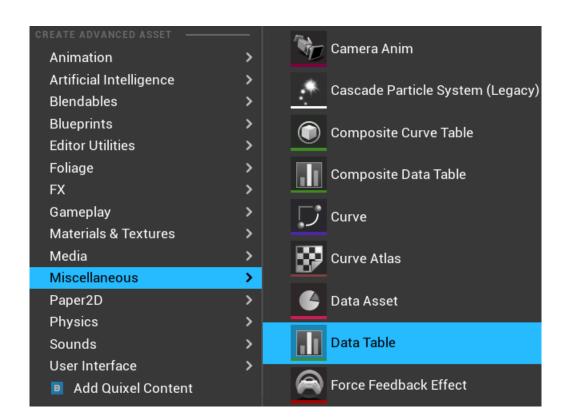


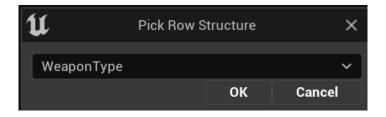


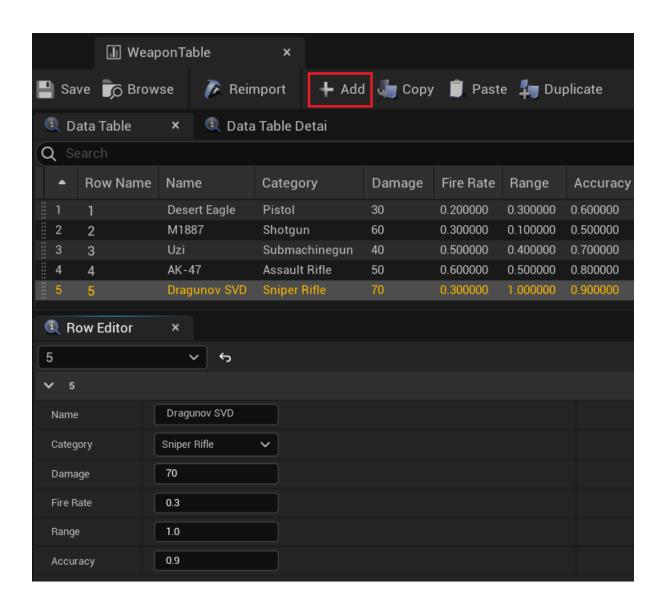












^{---,} Name, Category, Damage, Fire Rate, Range, Accuracy

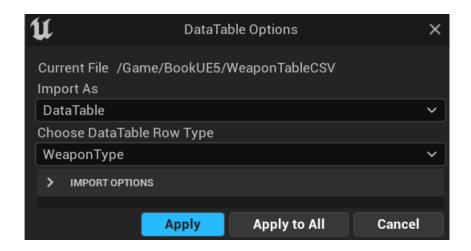
^{1, &}quot;Desert Eagle", "Pistol", "30", "0.200000", "0.300000", "0.600000"

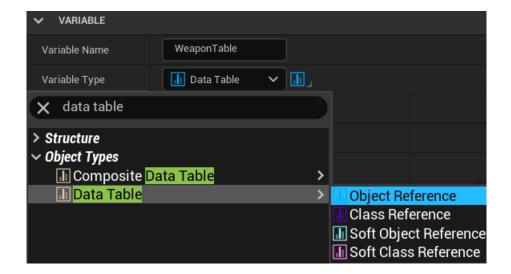
^{2, &}quot;M1887", "Shotgun", "60", "0.300000", "0.100000", "0.500000"

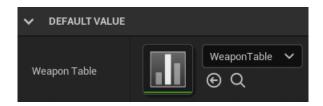
^{3, &}quot;Uzi", "Submachinegun", "40", "0.500000", "0.400000", "0.700000"

^{4,&}quot;AK-47","Assault Rifle","50","0.600000","0.500000","0.800000"

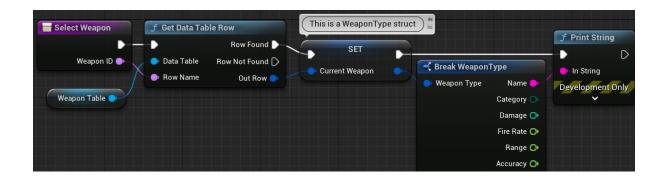
^{5, &}quot;Dragunov SVD", "Sniper Rifle", "70", "0.300000", "1.000000", "0.900000"

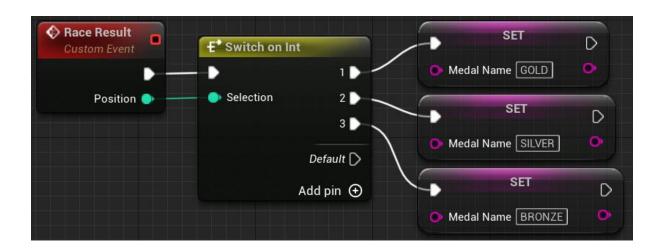


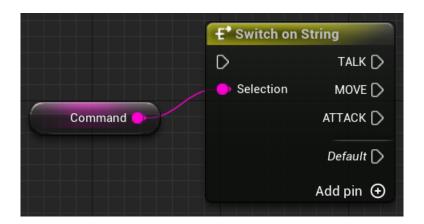


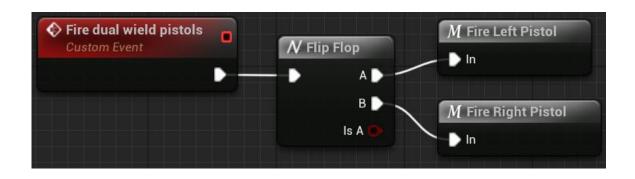


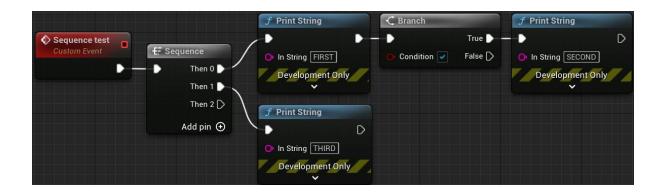


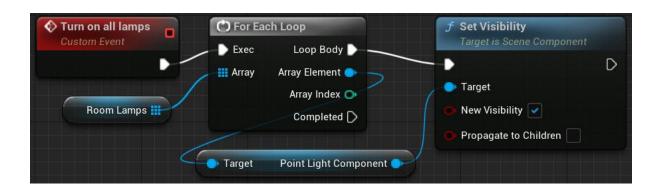


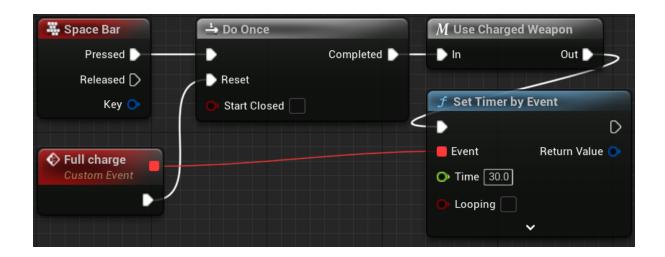


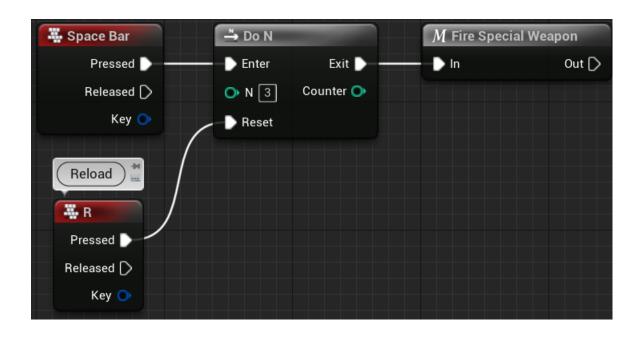


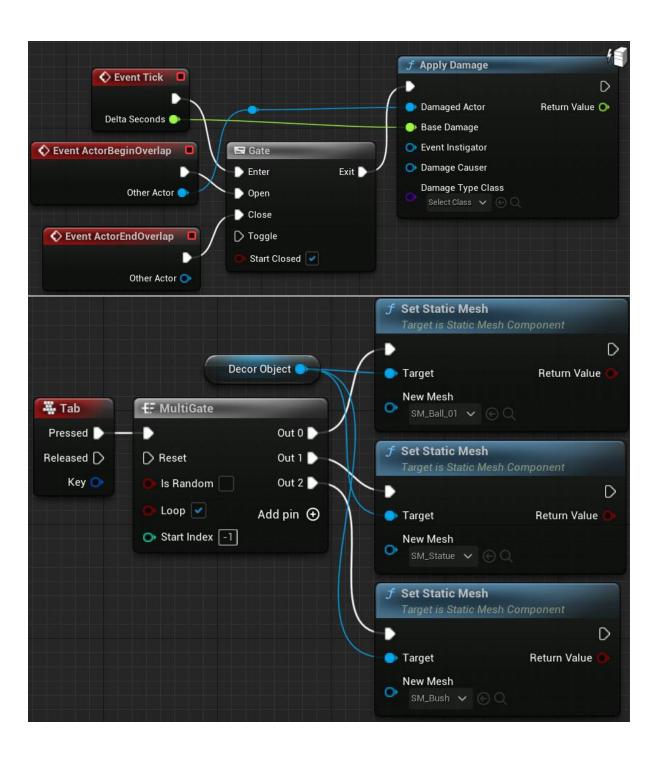






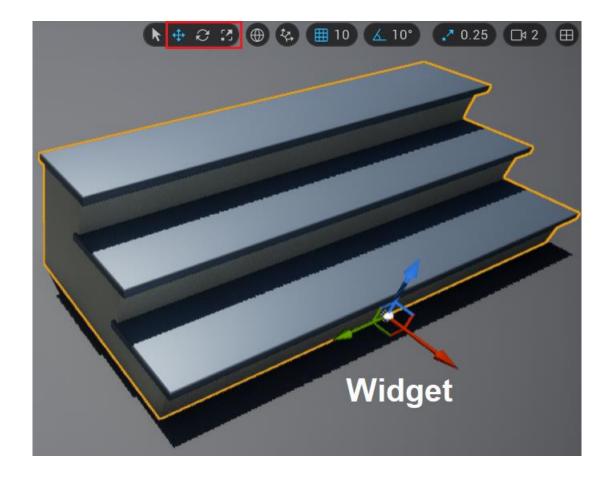




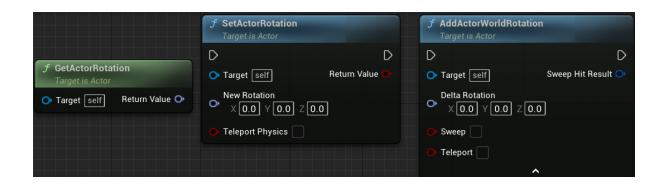


Chapter 14: Math and Trace Nodes

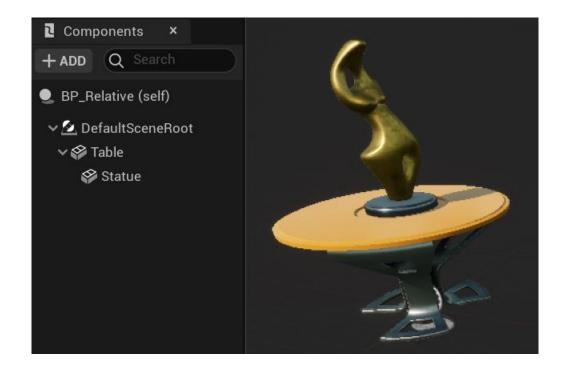


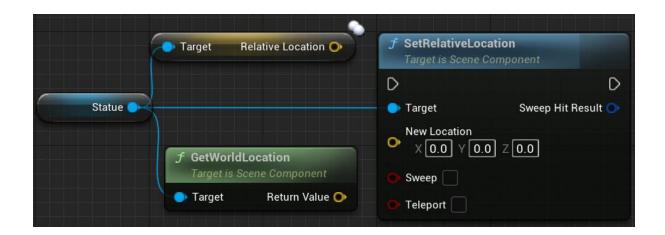




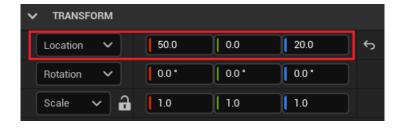


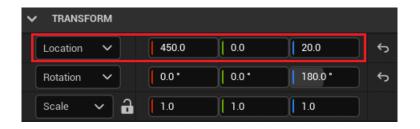


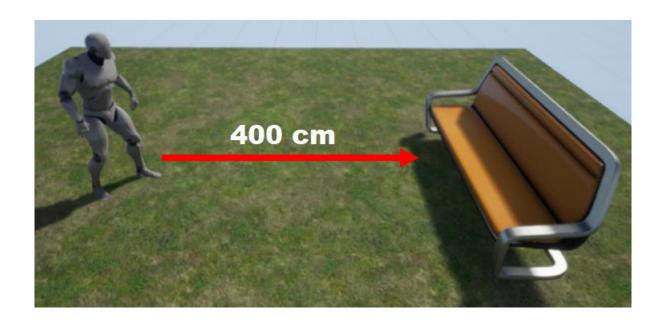


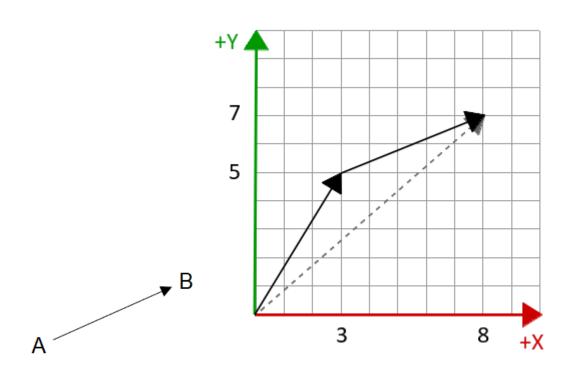




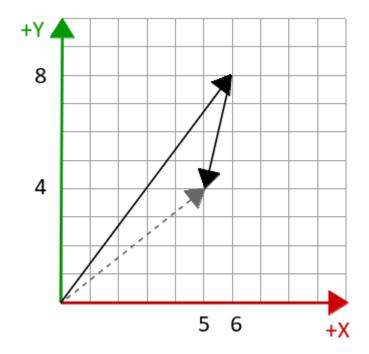




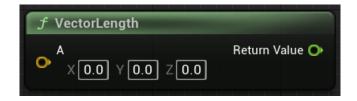


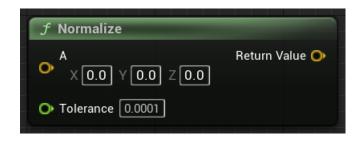






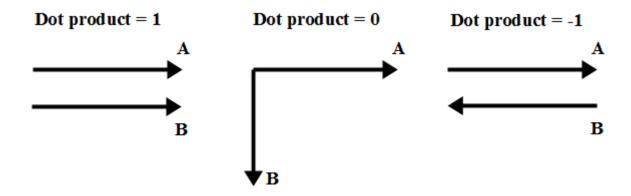


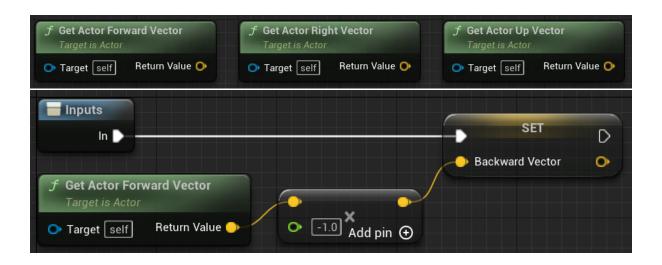




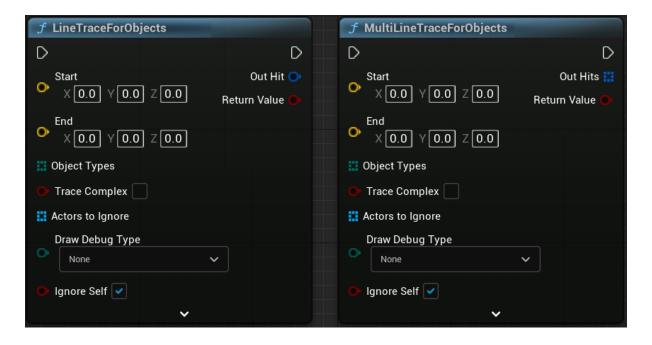


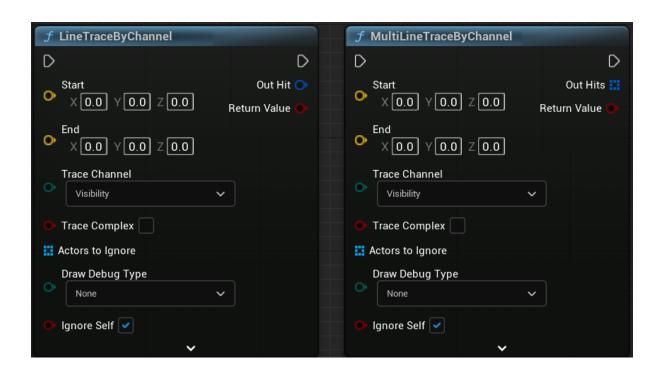


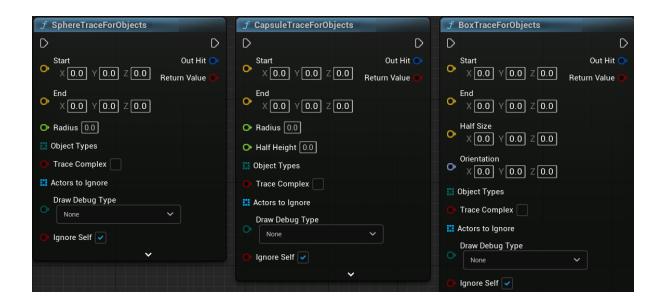


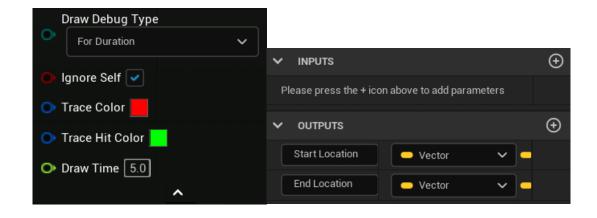


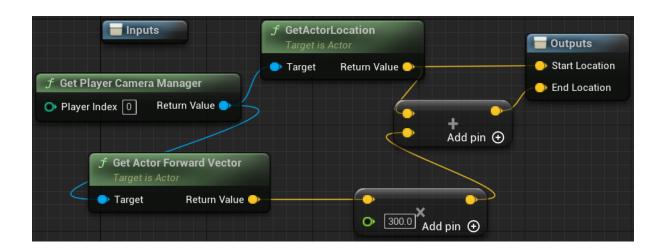


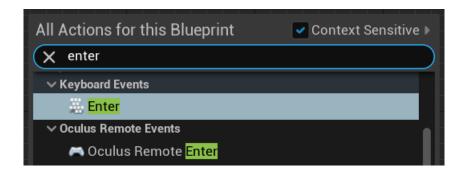


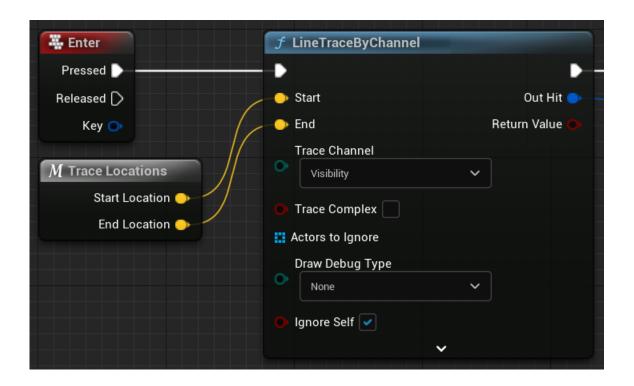


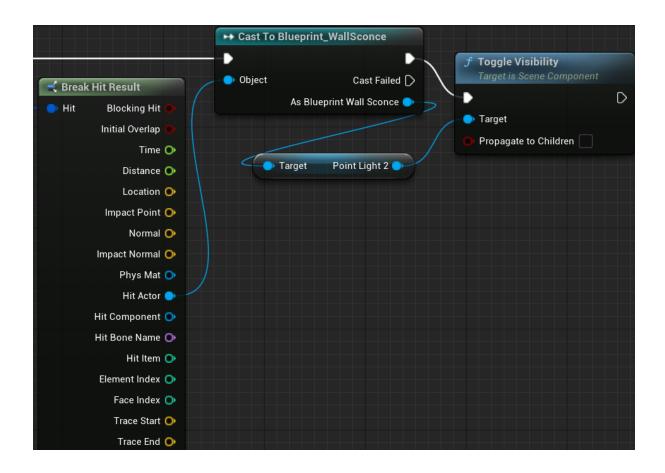


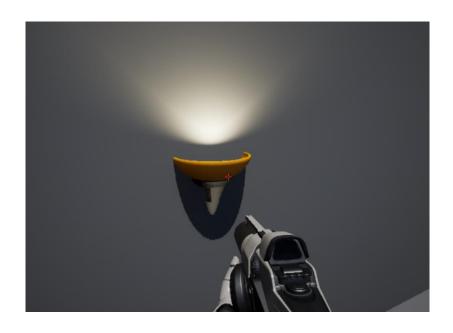








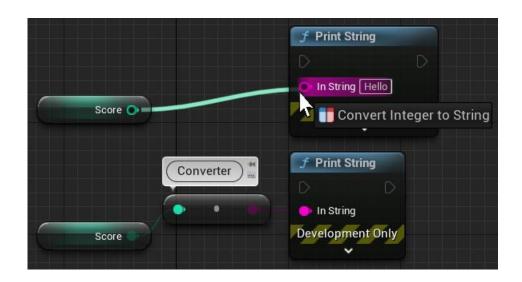


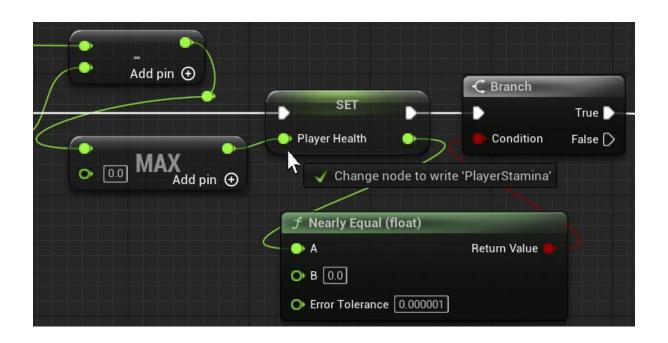


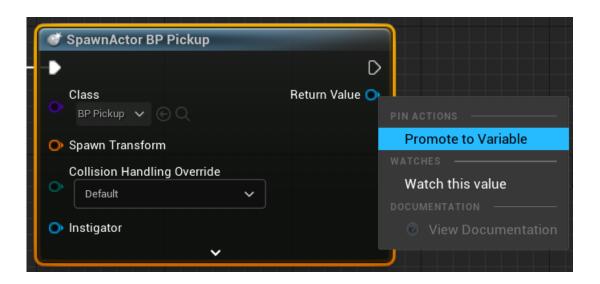
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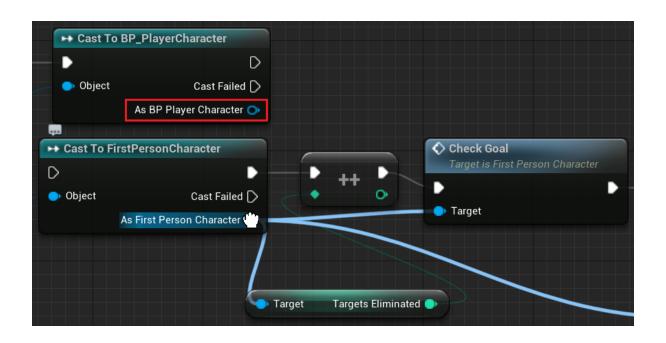


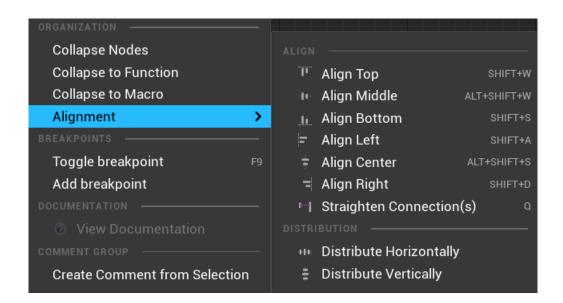




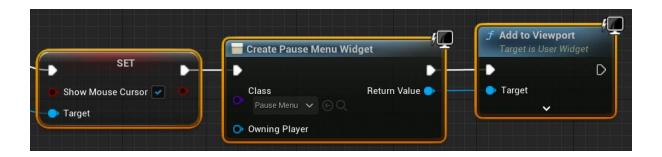


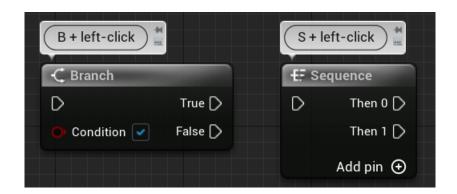


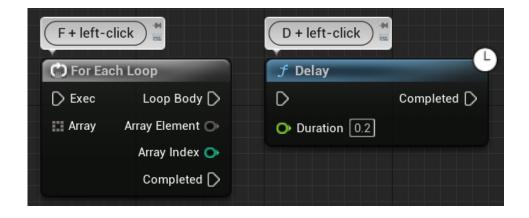


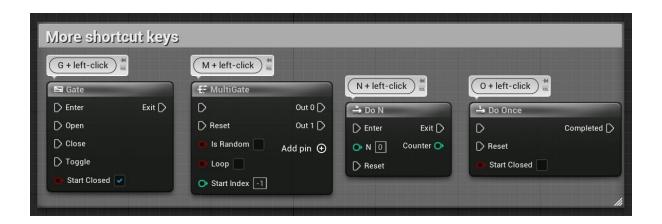


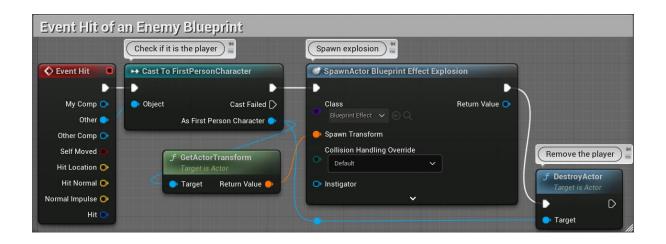




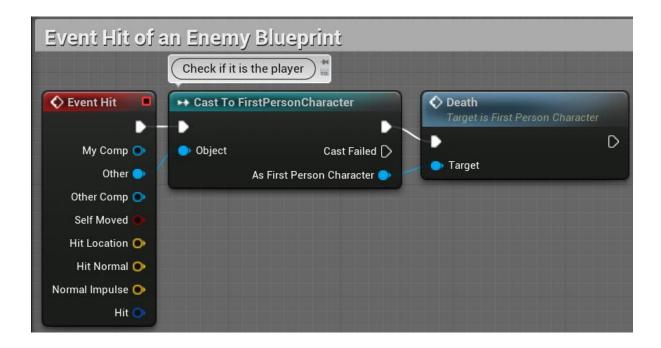


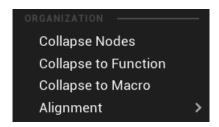




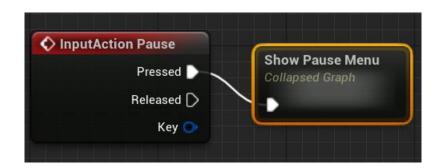


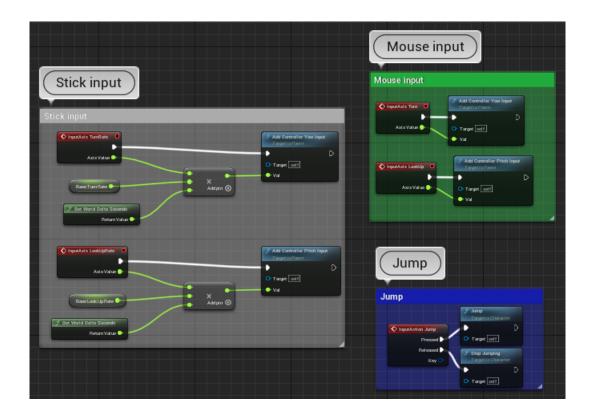


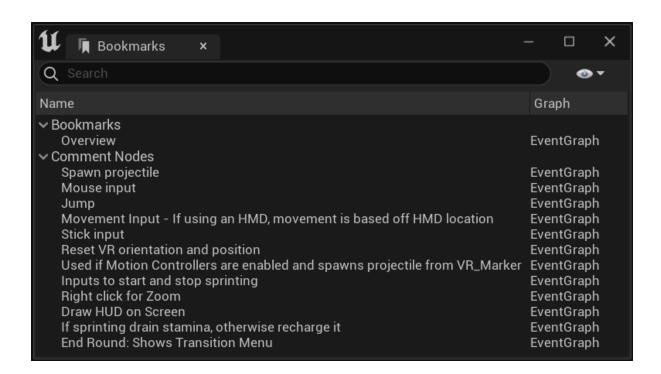


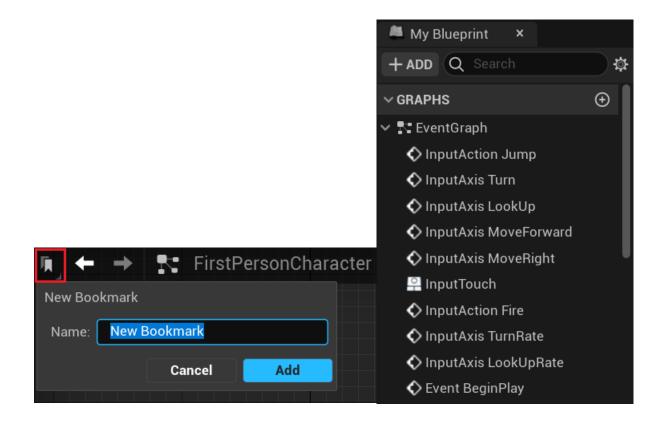


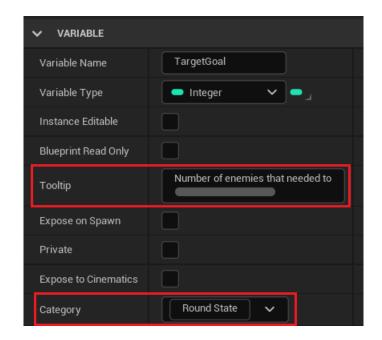


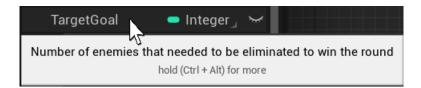


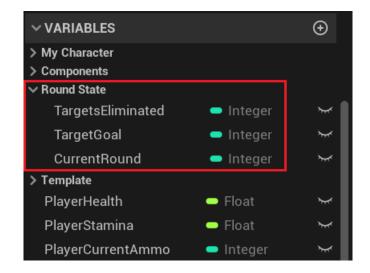


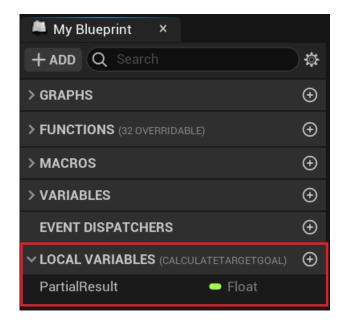


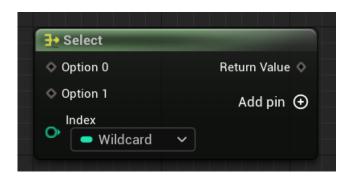


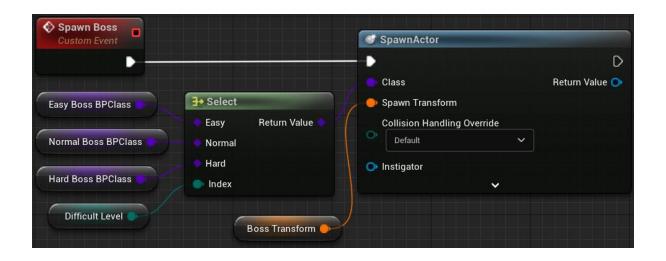


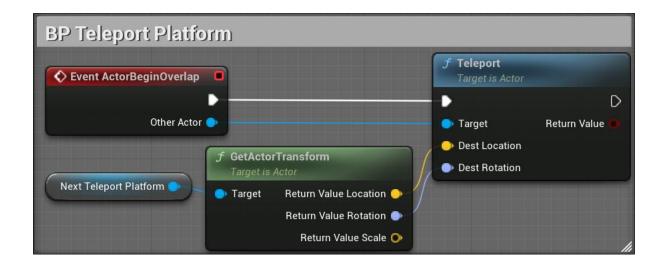


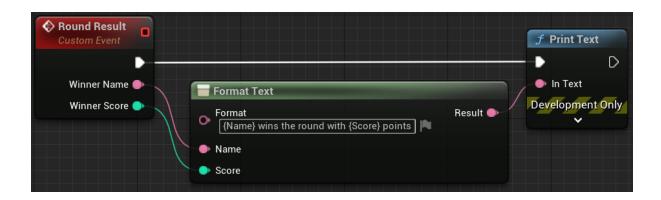




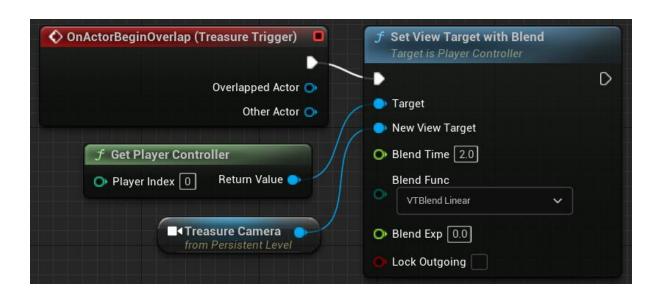


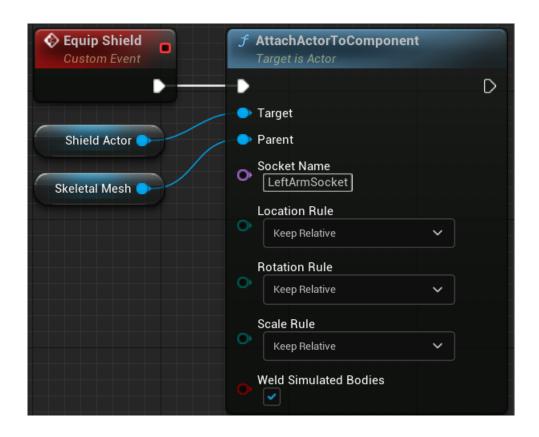


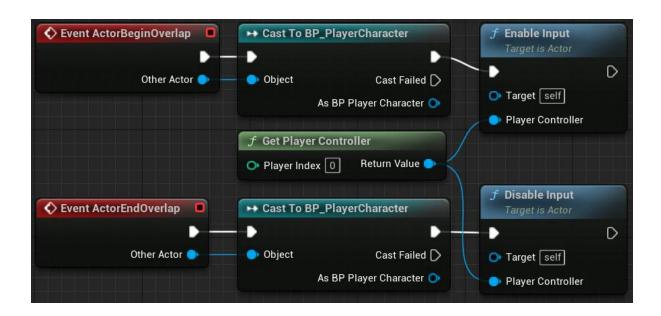


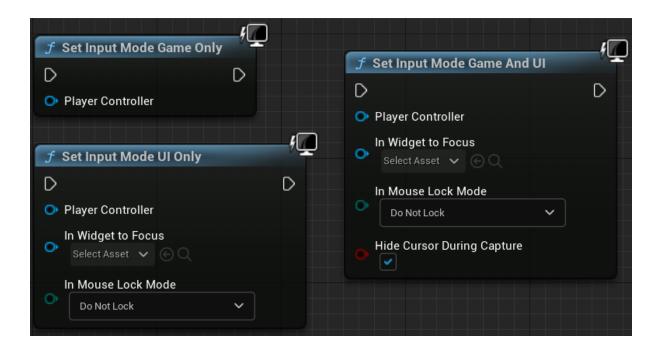




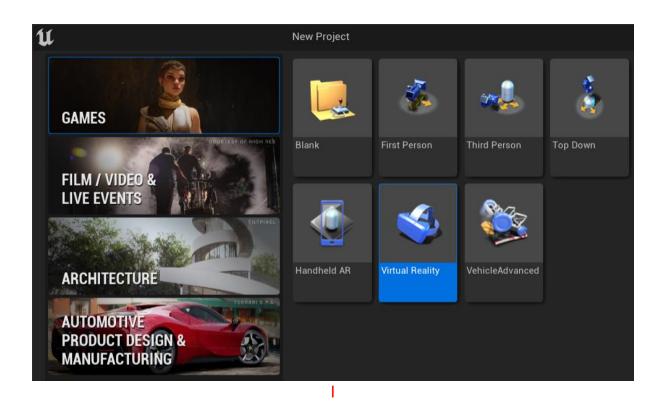


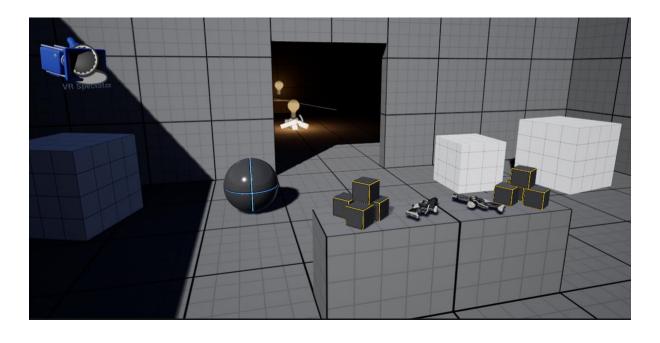


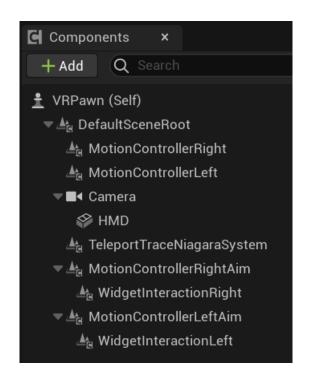


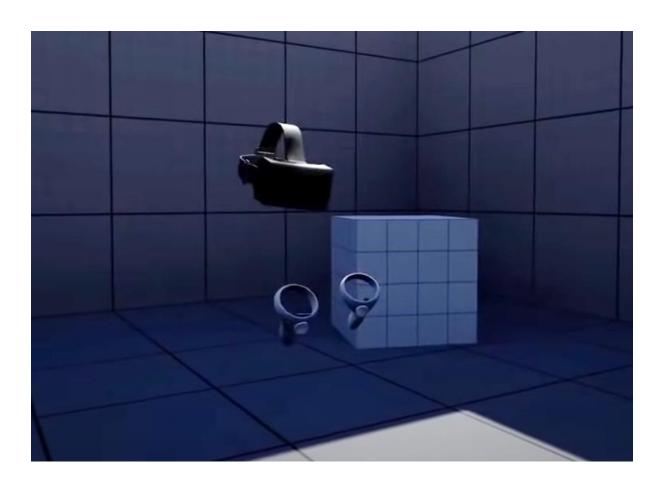


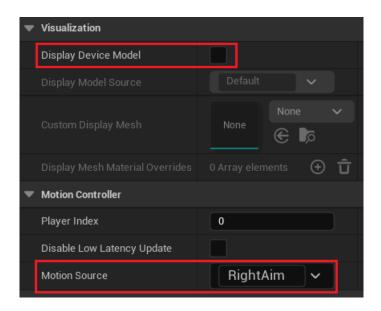
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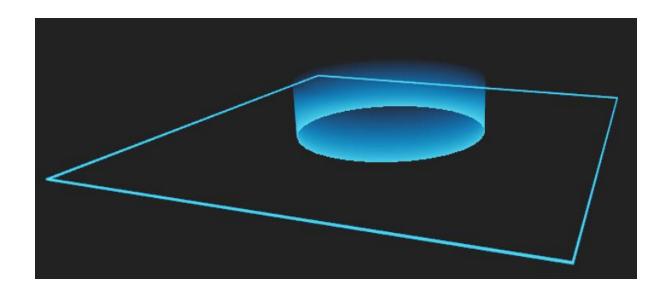


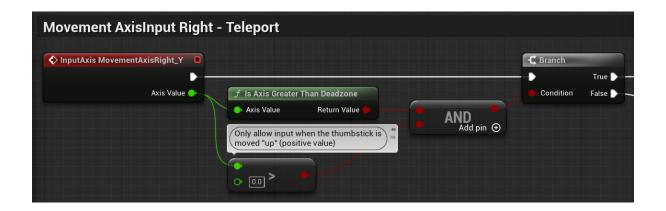


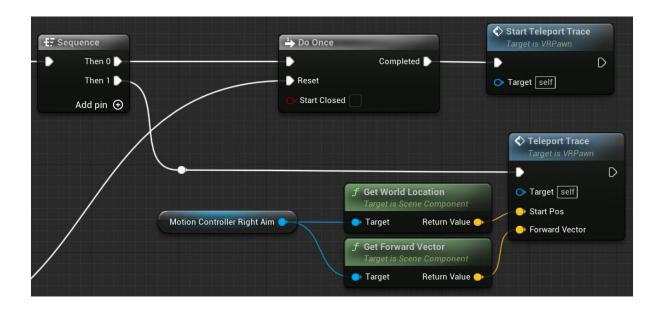


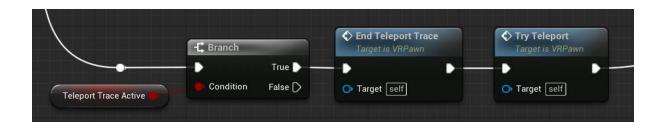


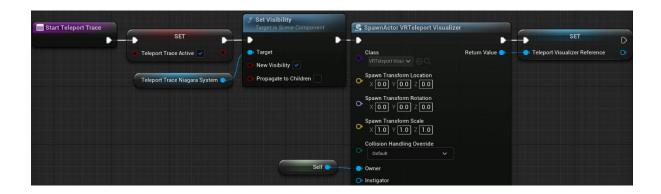




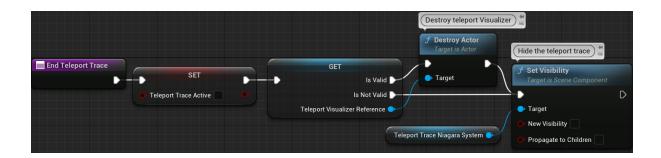


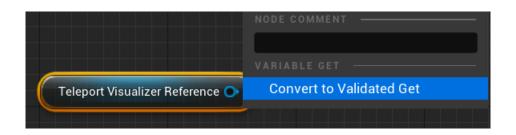


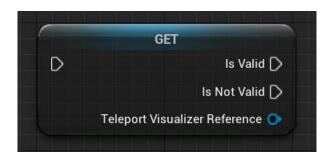


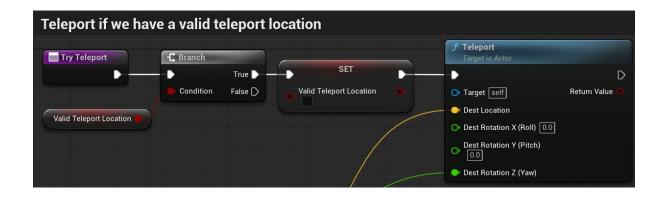




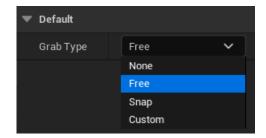


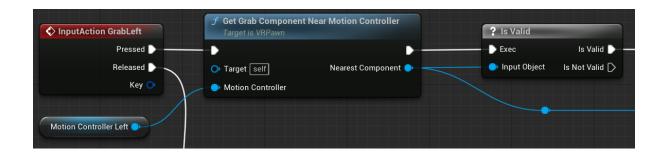


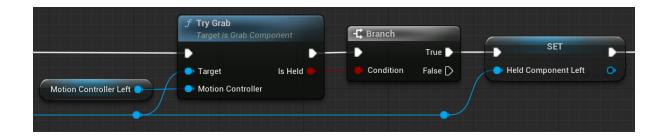


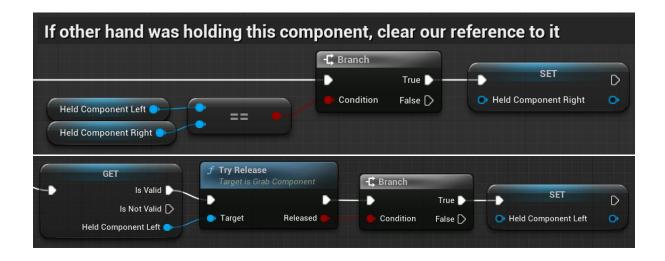


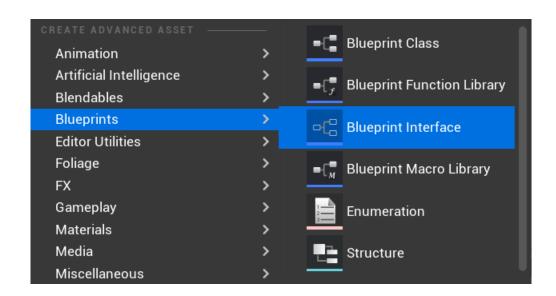


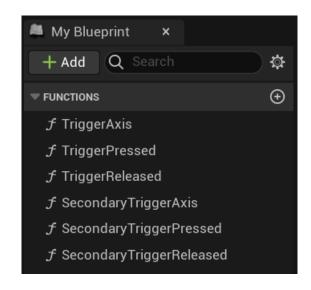


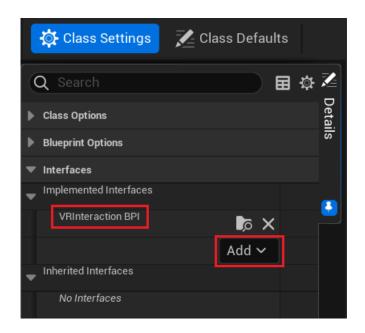








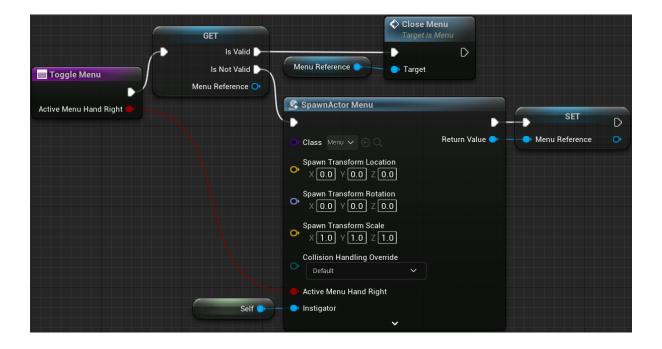


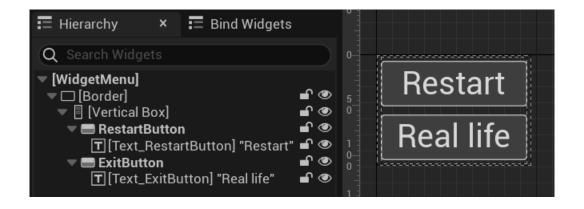


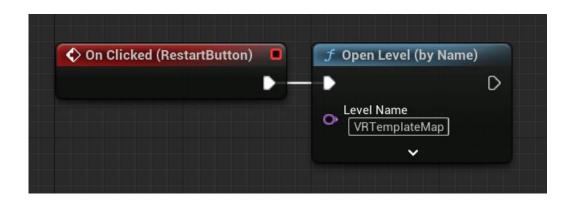






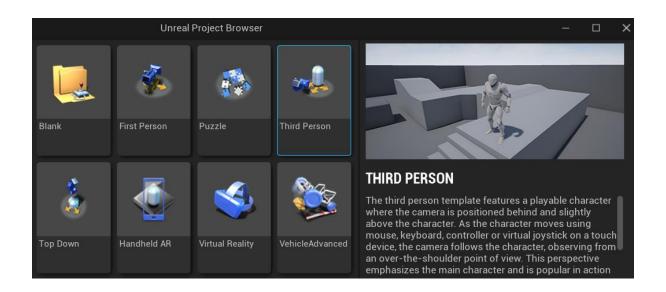




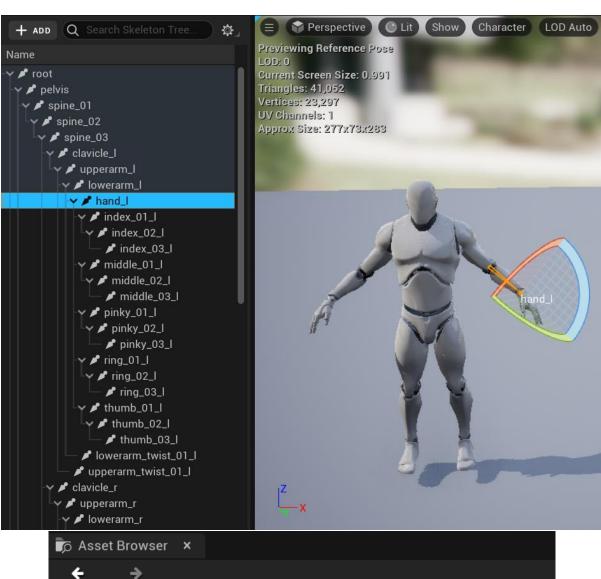


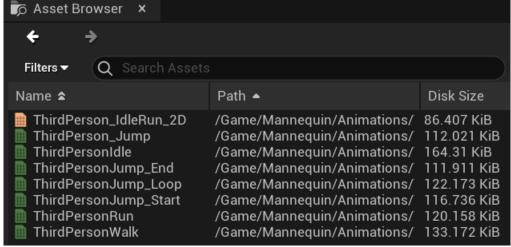


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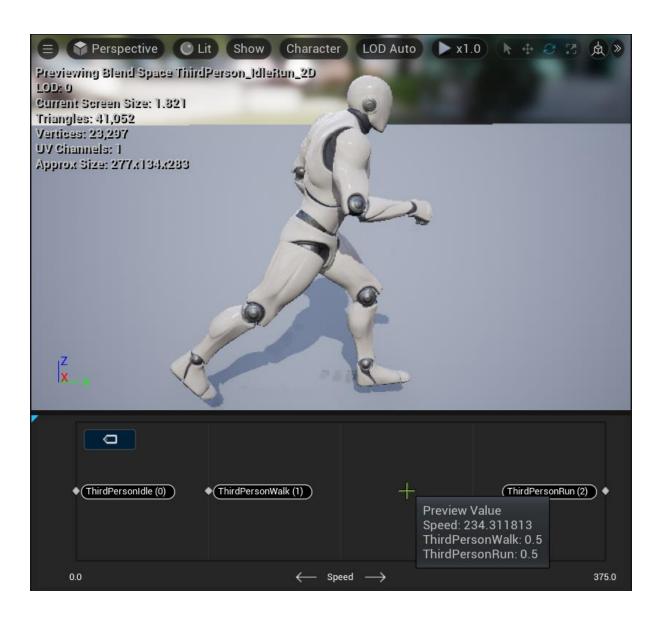


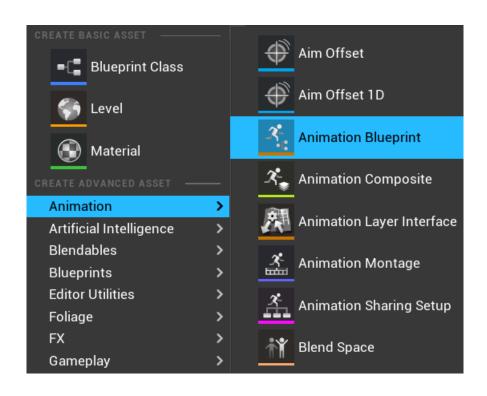


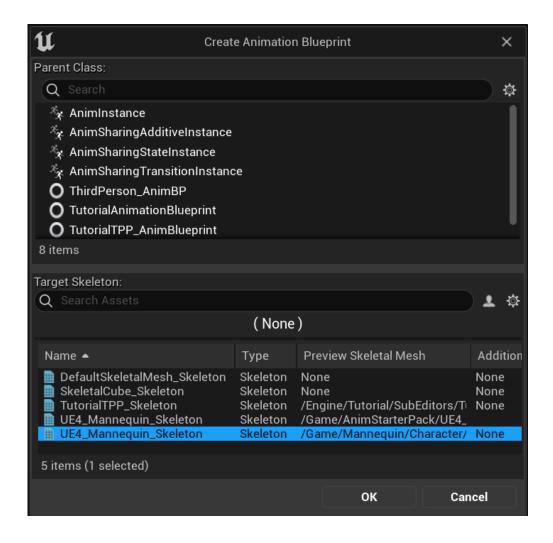


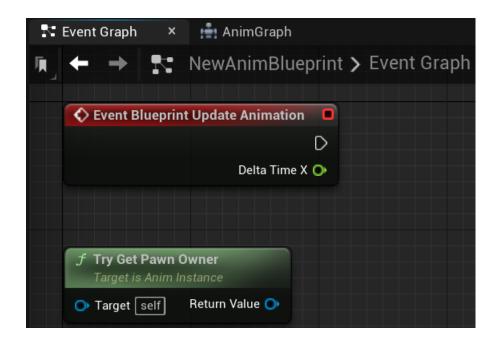




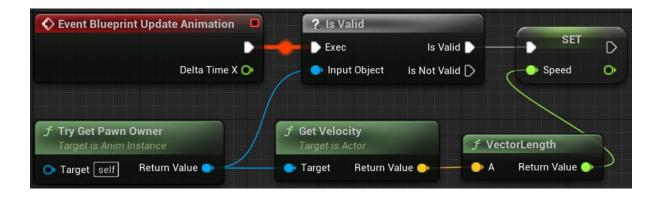


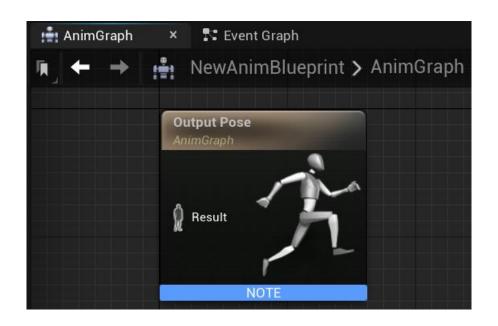


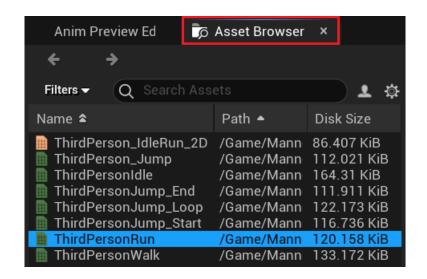


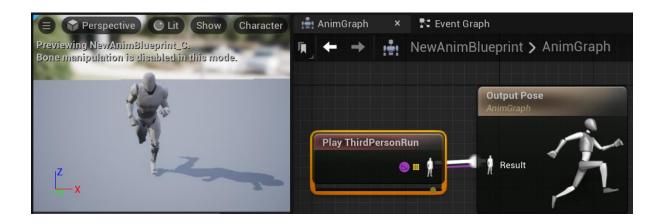


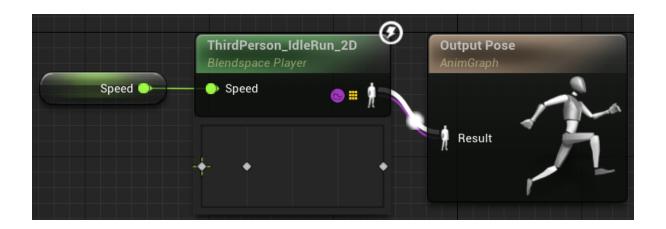


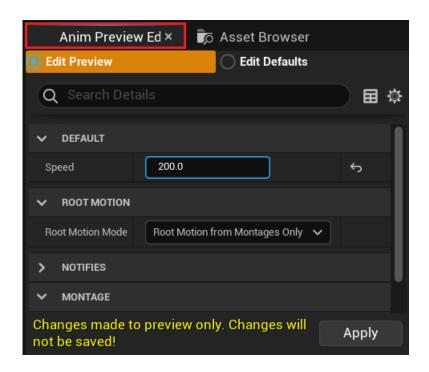


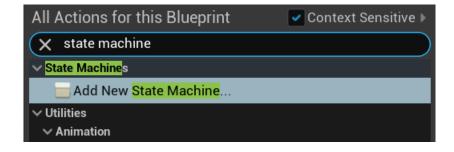


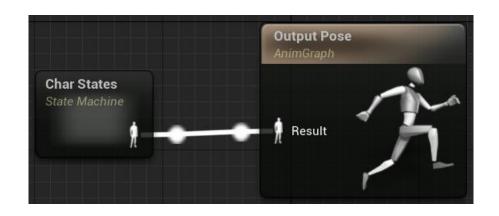






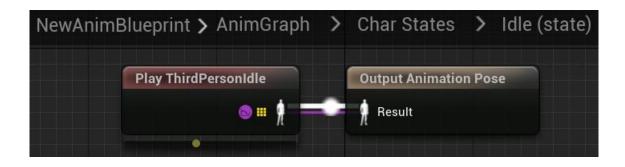


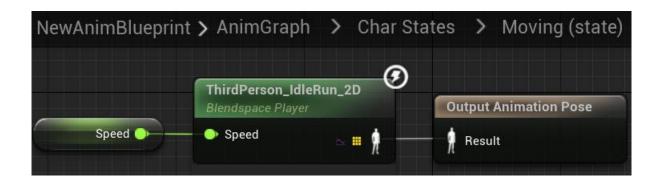


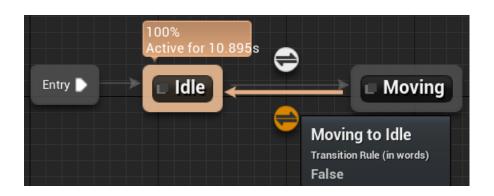


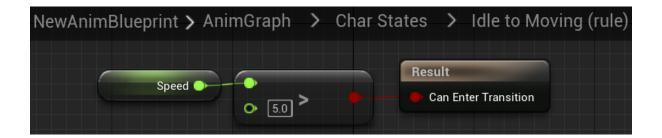


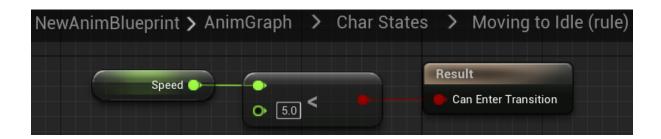


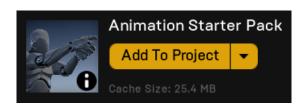


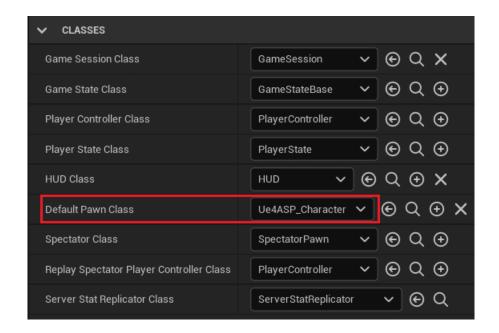


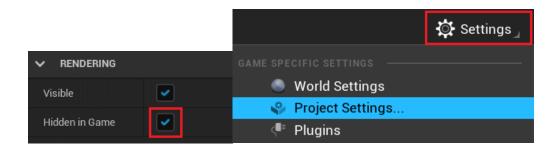


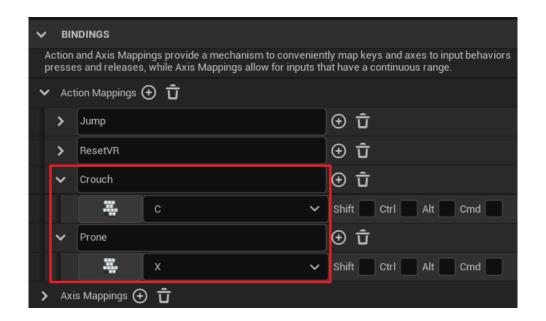


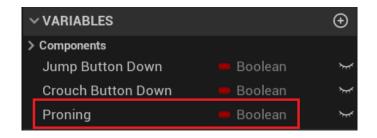


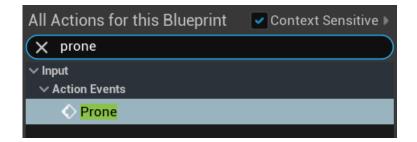


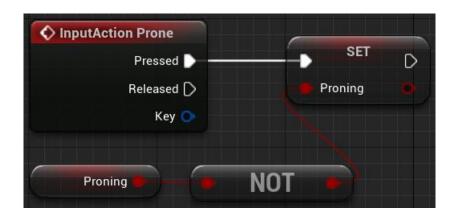


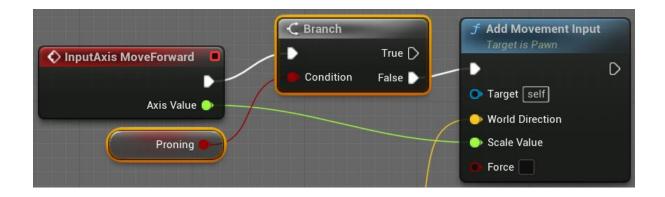


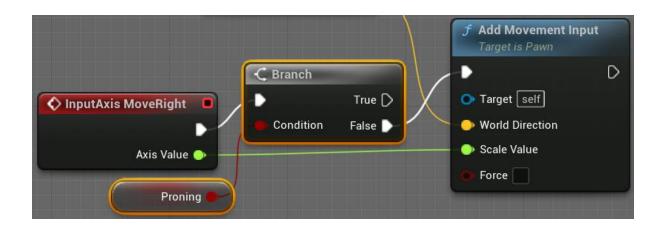


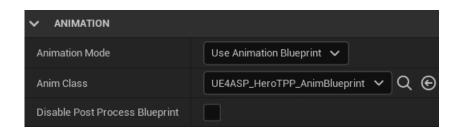


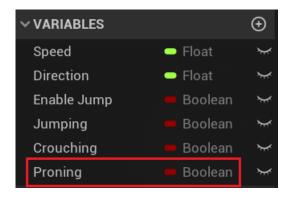


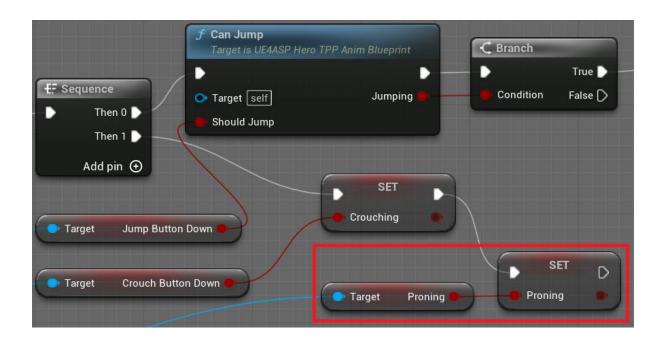


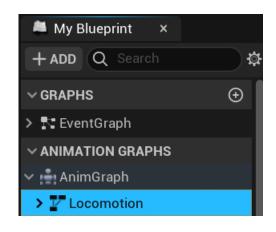


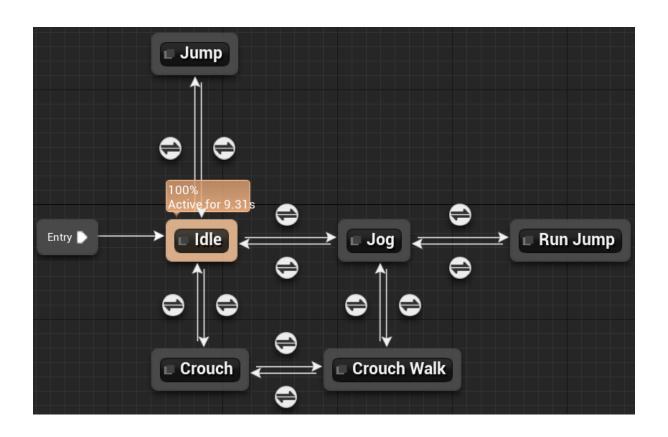


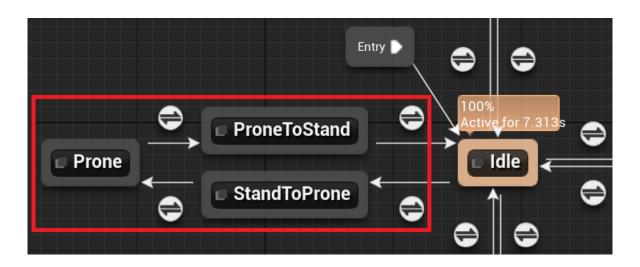


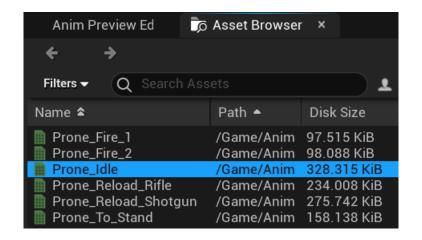


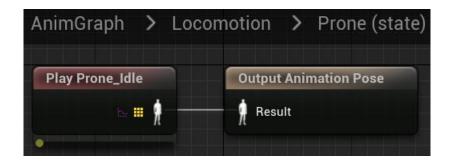


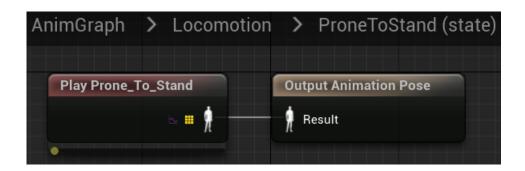


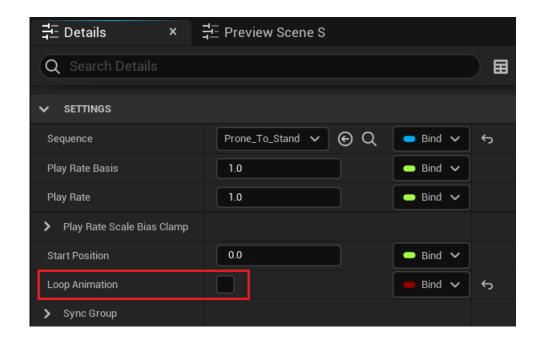


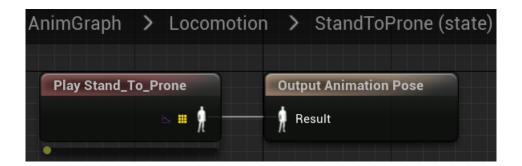




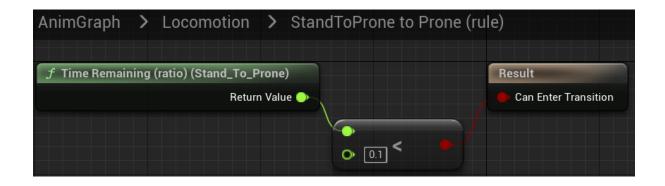


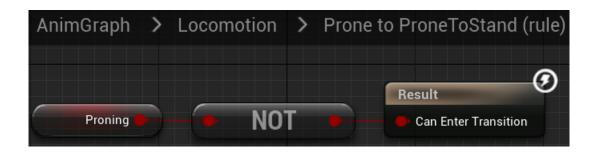


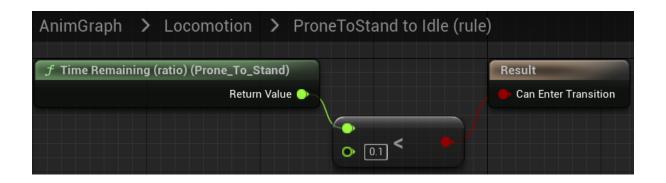


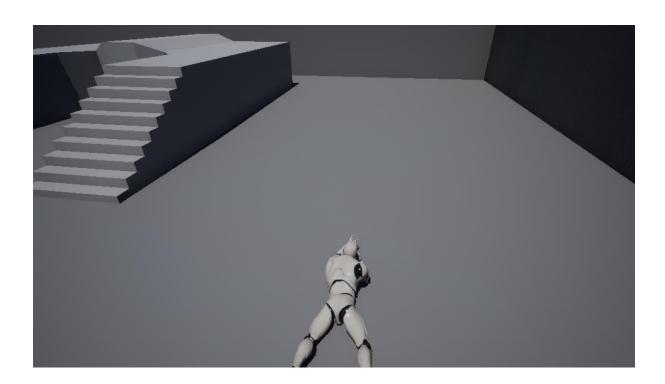




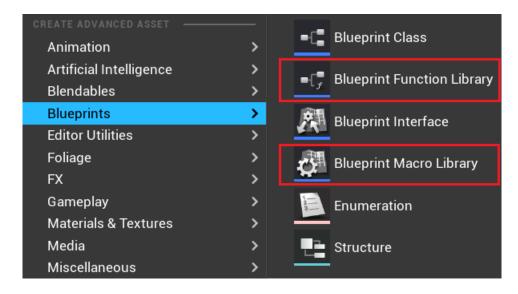


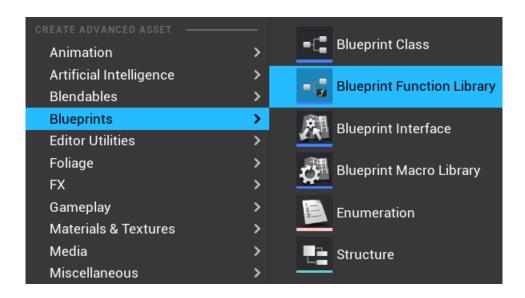






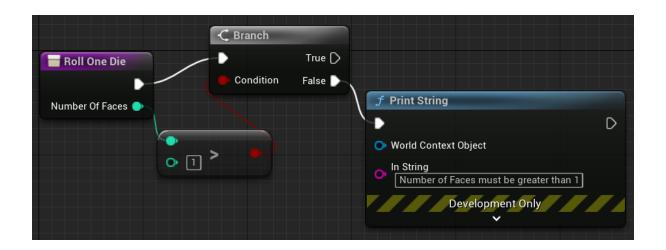
Chapter 18: Creating Blueprint Libraries and Components

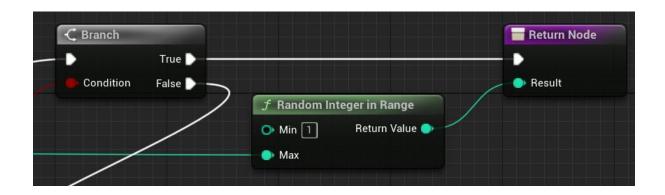


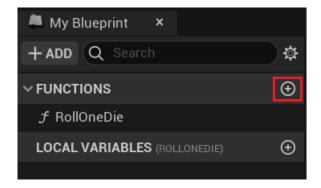




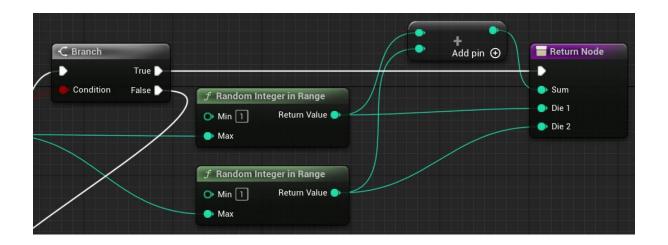


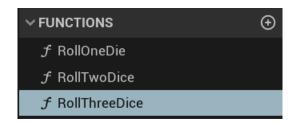




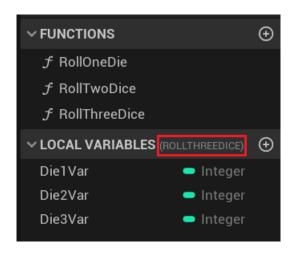


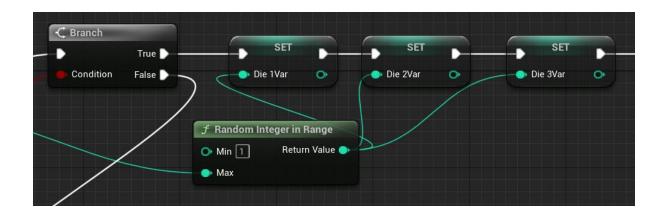


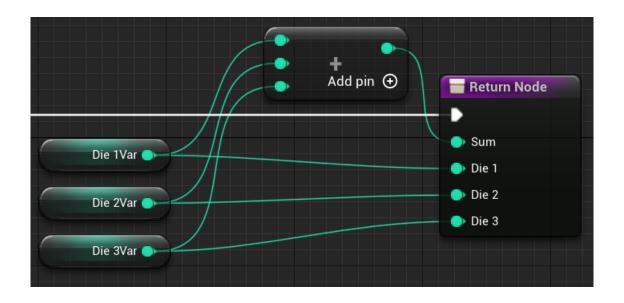


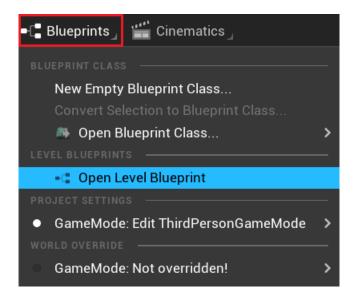




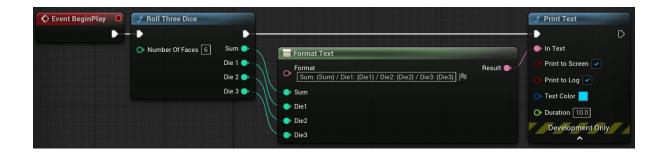




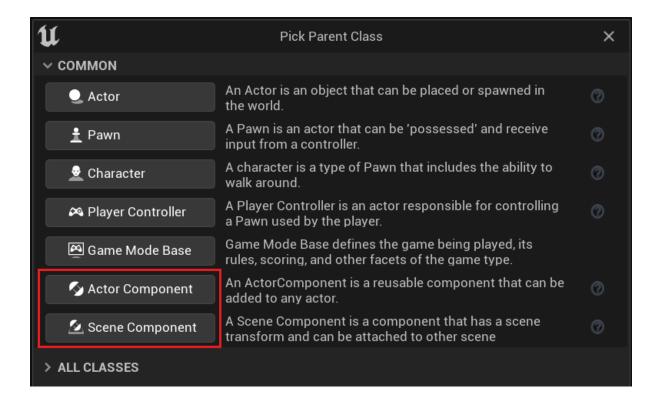






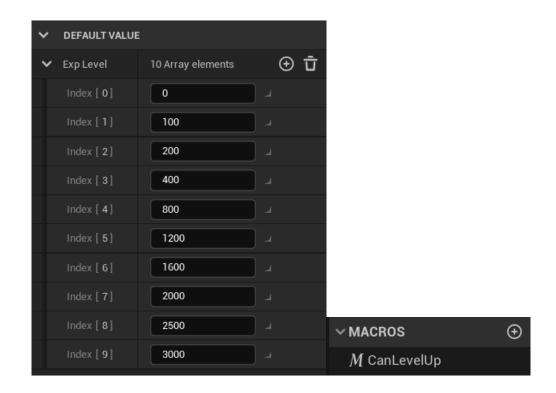


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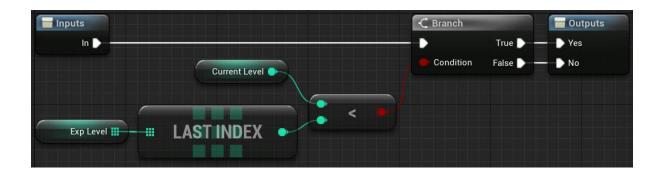


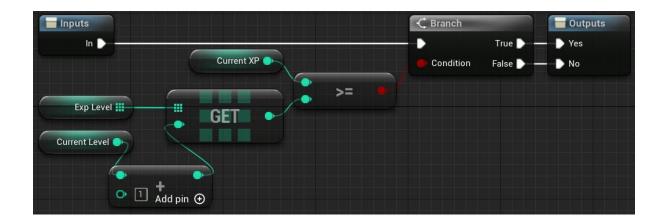






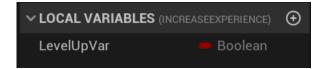


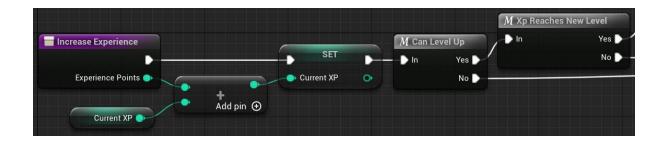


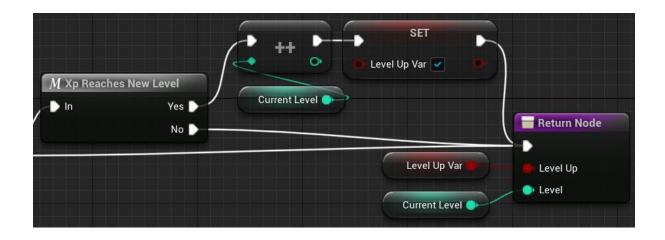


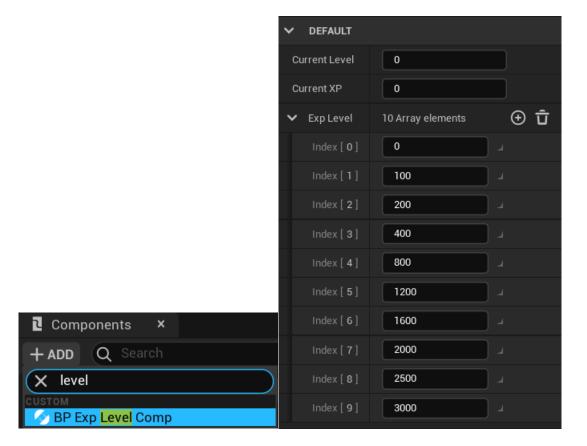


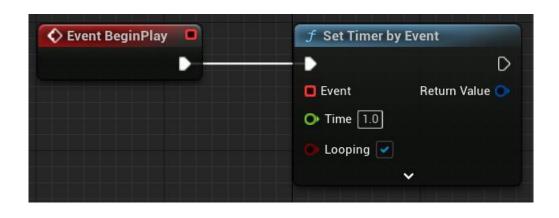


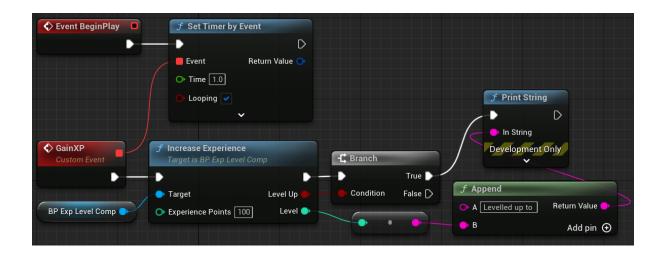


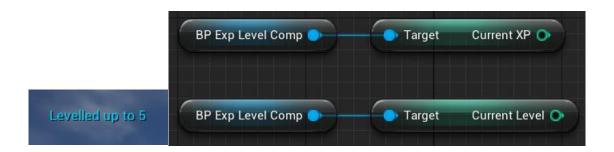


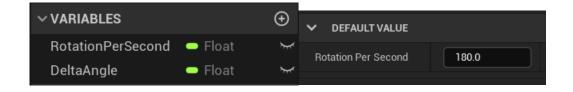


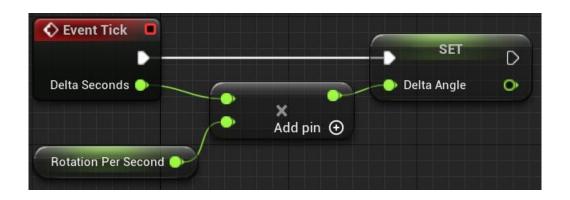


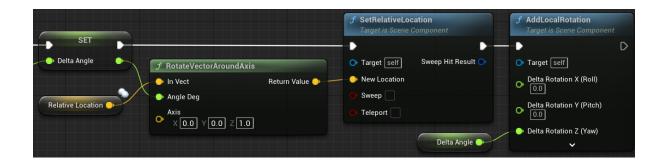


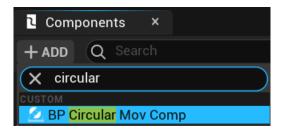


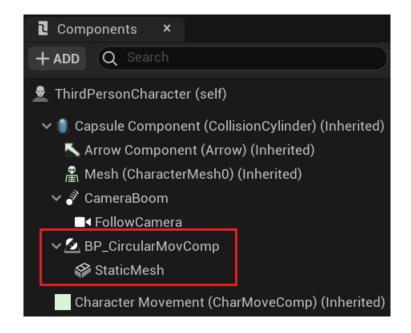


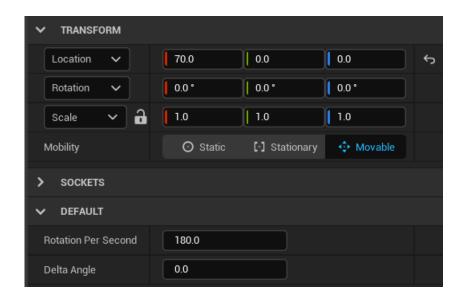




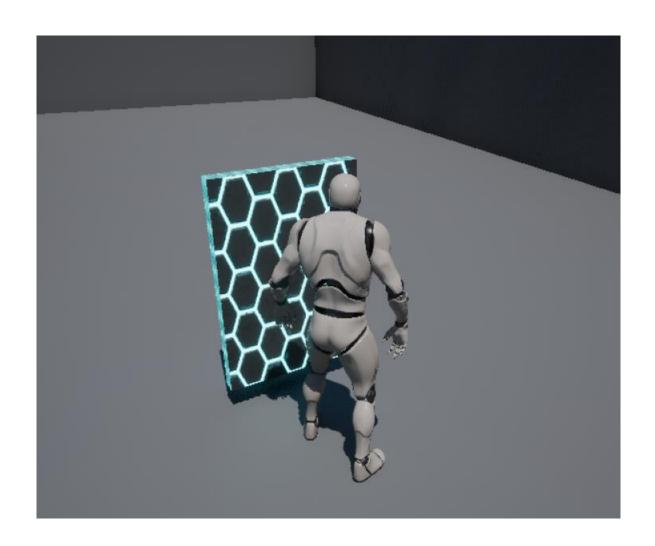




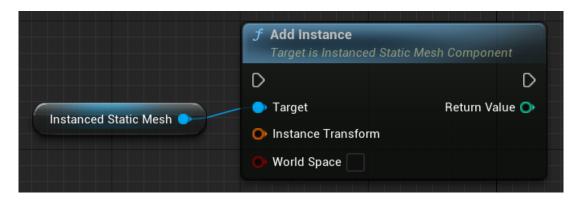


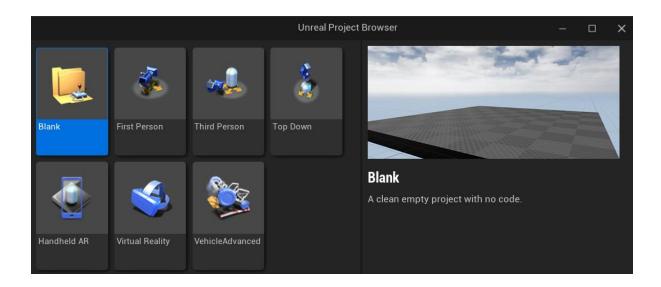


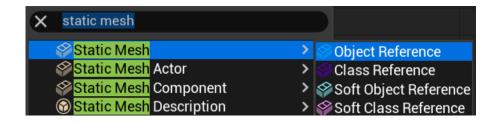


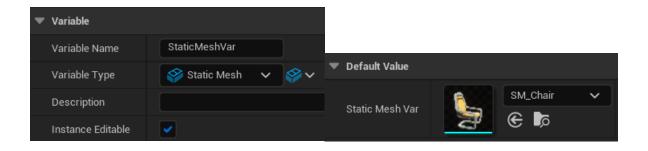


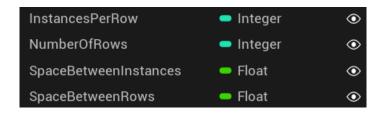
Chapter 19: Procedural Generation

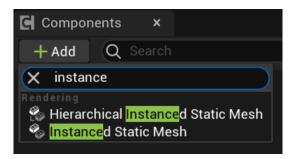


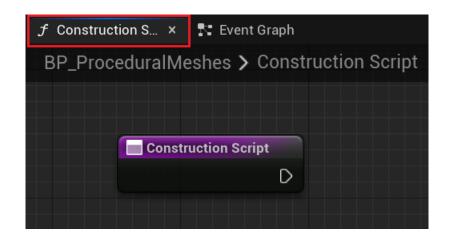


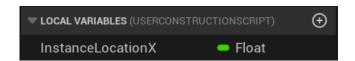


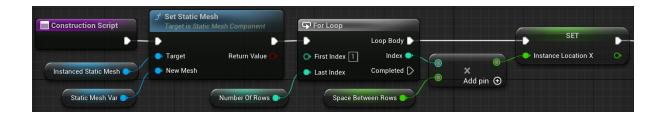


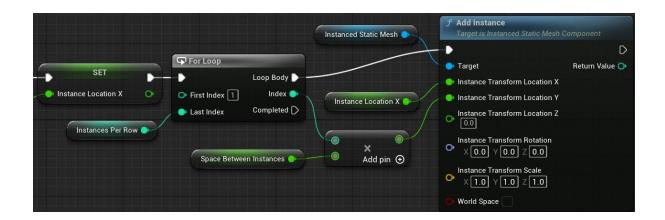


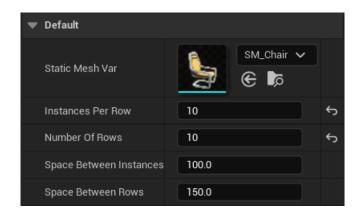


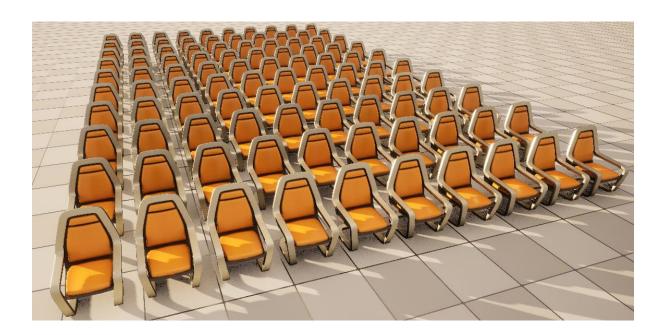


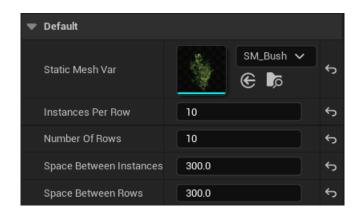


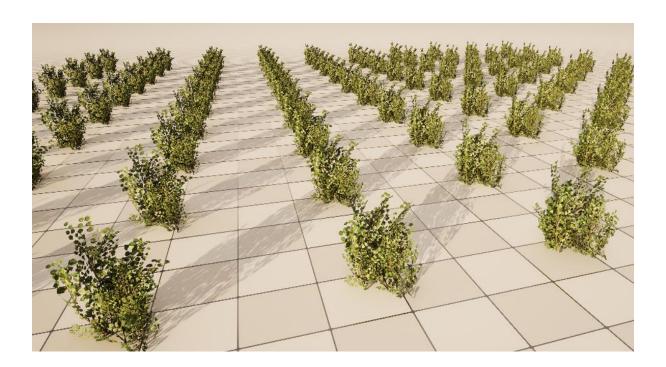


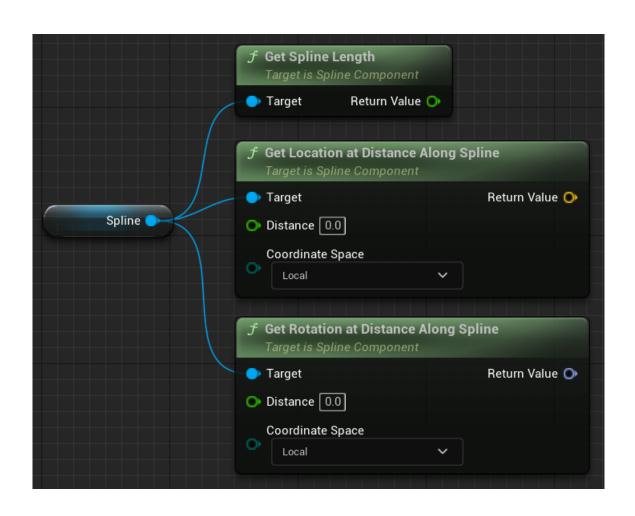


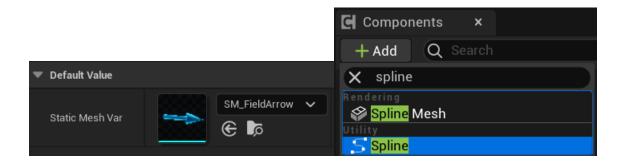


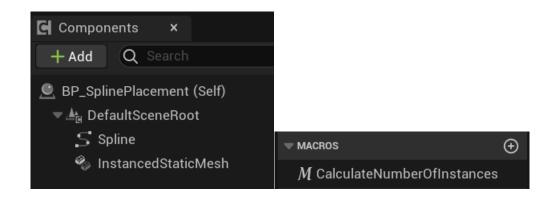


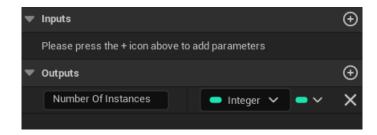


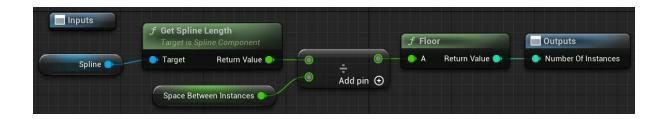


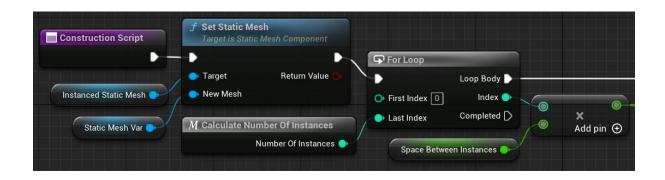


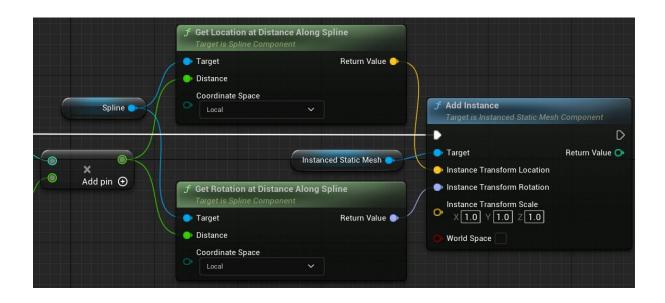


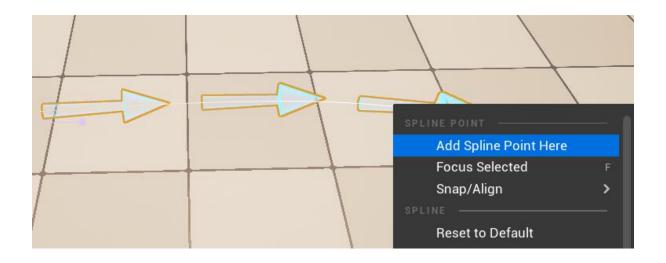


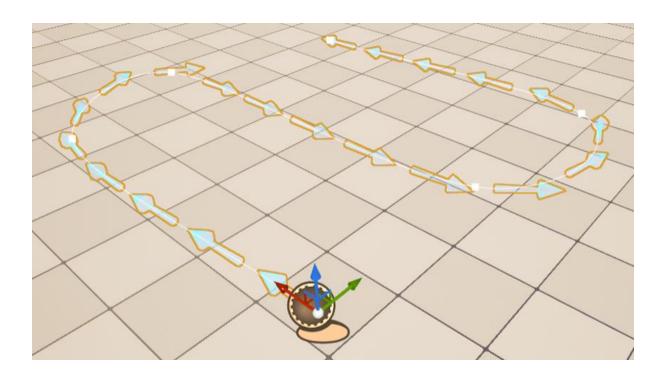


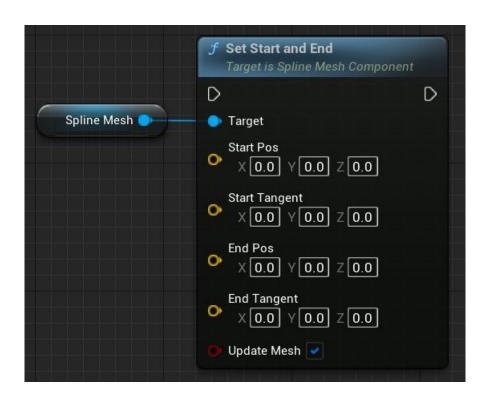




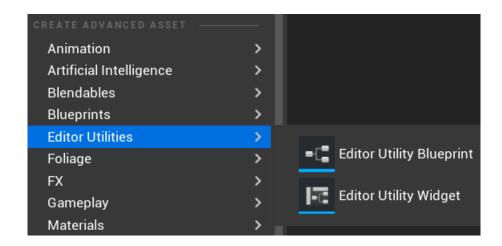


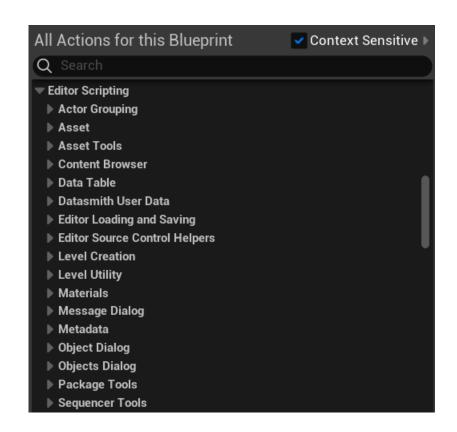


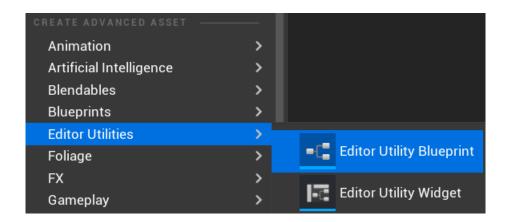


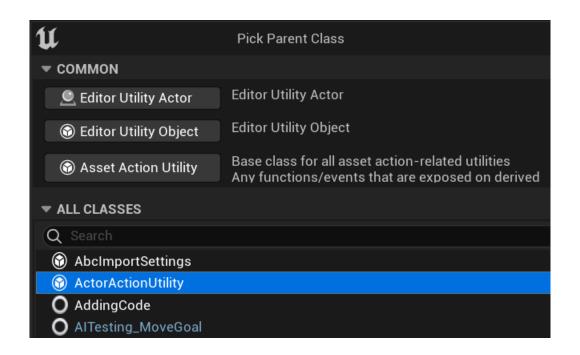


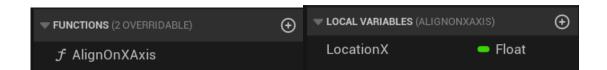




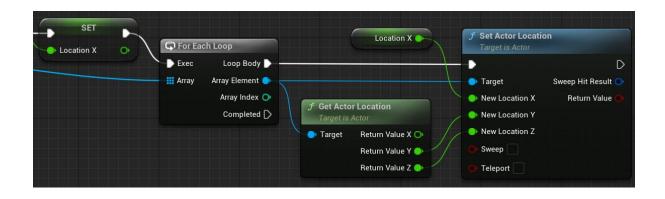


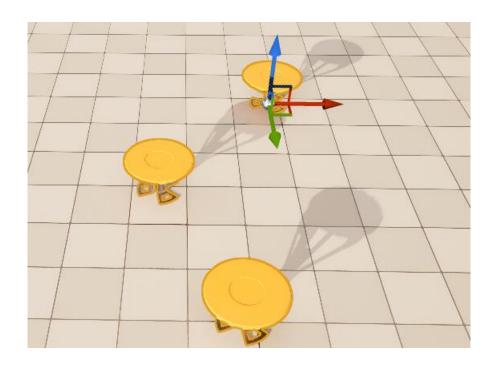


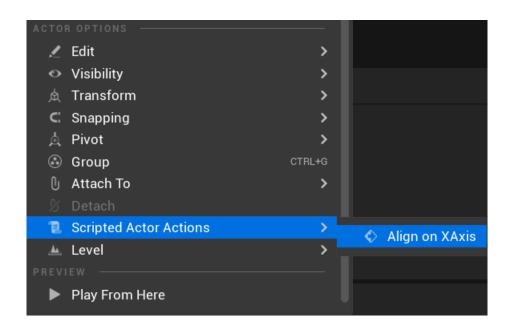


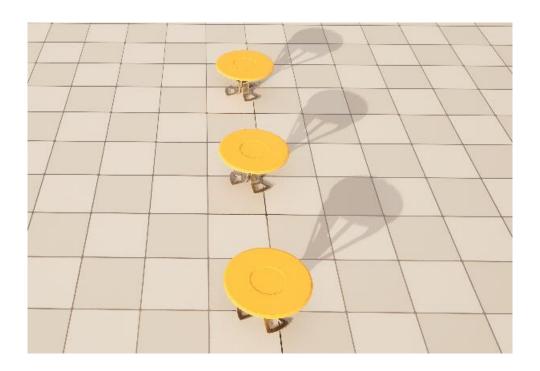












Chapter 20: Creating a Product Configurator using the Variant Manager

