Experiment:05 -

The player controller adds ammo to increase the bullet count and display in play-mode

AIM:

To add ammo to increase the bullet count and display in play-mode.

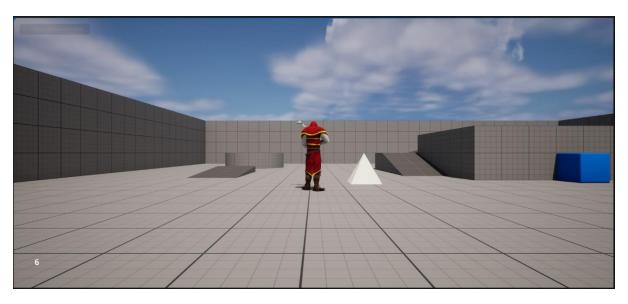
ALGORITHM(for adding bullet count):

- 1. Create a HUD Blueprint:
 - In the Content Browser, right-click in the desired folder.
 - Select Create Basic Asset > Blueprint Class.
 - In the Class Settings window, search for "HUD" and select it as the parent class.
 - Name the Blueprint (e.g., "GameHUD") and click Create.
- 2. Open the GameHUD Blueprint:
 - Open the GameHUD Blueprint you just created.
 - In the Blueprint editor, find the Canvas panel on the left.
 - Add a Text block widget to the Canvas panel to display the bullet count.
 - Position the Text block widget on the canvas as desired.
- 3. Create a reference to the player character:
 - In the GameHUD Blueprint, create a variable of the player character's class to store a reference to it.
 - To do this, go to the Variables panel and click the "+" button.
 - Set the variable type to the class of your player character (e.g., ThirdPersonCharacter).
 - Name the variable (e.g., PlayerCharacter).

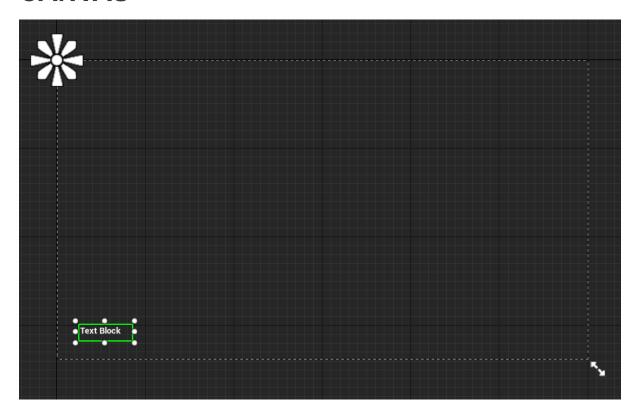
- 4. Update the bullet count display:
 - In the GameHUD Blueprint, locate the Event Tick event.
 - Drag off the PlayerCharacter variable and search for "Get Bullet Count" (assuming you have a bullet count variable in your player character Blueprint).
 - Connect the output of the Get Bullet Count node to the Text block widget's Text property.
 - You may need to format the bullet count value as a string before connecting it to the Text property.
- 5. Set the GameHUD as the active HUD:
 - Open your player character Blueprint.
 - In the Blueprint editor, locate the Event Begin Play event.
 - Drag off the execution line and search for "Create Widget".
 - In the Create Widget node, select the GameHUD Blueprint you created.
 - Drag off the return value of the Create Widget node and search for "Add To Viewport".
 - Compile and save the player character Blueprint.
- 6. Test the bullet count display:
 - Play the game in the editor.
 - Ensure that the bullet count is displayed on the screen as you interact with the game, such as firing bullets or picking up ammo.

OUTPUT:

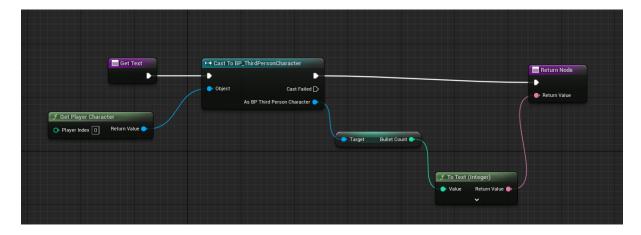
IN PLAY MODE



CANVAS



BULLET COUNT GRAPH



ALGORITHM(for adding ammo):

1. Create an ammo actor:

- In the Content Browser, right-click in the desired folder.
- Select Create Basic Asset > Blueprint Class.
- In the Class Settings window, search for "Actor" and select it as the parent class.
- Name the Blueprint (e.g., "AmmoActor") and click Create.

2. Set up the ammo actor:

- Open the AmmoActor Blueprint.
- In the Blueprint editor, you can add a static mesh or other visual representation to represent the ammo pickup.
- Add a collision component (e.g., Box Collision) to detect the player's interaction.
- Configure the collision component's properties, such as its size and collision settings.
- Create a custom event in the Blueprint to handle the player's interaction with the ammo actor.

3. Implement the player's interaction with the ammo actor:

- Open the player's character Blueprint.
- In the Blueprint editor, locate the event that handles the collision or overlap with the ammo actor.
- Add a new custom event node to handle the interaction.
- Implement logic to increase the bullet count for the player:
 - Access the player's character or controller reference.
 - · Increment the bullet count variable or property.
 - Play a sound or visual effect to indicate the pickup.
 - Destroy the ammo actor after it has been collected.

4. Place the ammo actor in the level:

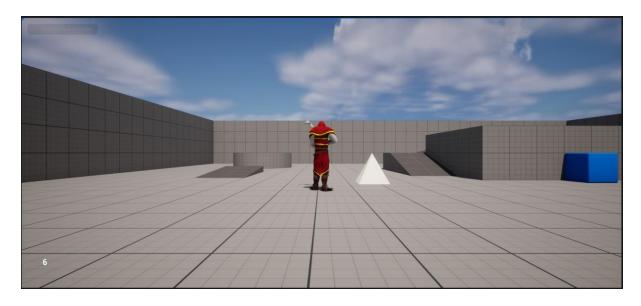
- Drag and drop the AmmoActor Blueprint into the level where the player can interact with it.
- Adjust its position and orientation as needed.

5. Test the ammo pickup functionality:

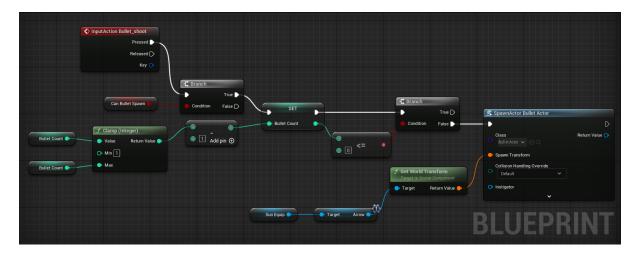
- Compile and save the AmmoActor Blueprint and the player's character Blueprint.
- Play the game and navigate the player character to the ammo actor.
- Ensure that when the player character overlaps or collides with the ammo actor, the bullet count increases, and the ammo actor disappears.

OUTPUT:

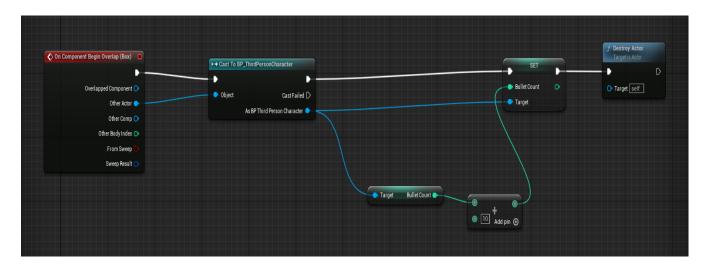
AMMO IN PLAY MODE



EVENT GRAPH



INCREASE THE BULLET COUNT IN AMMO ACTOR



AFTER HITTING AMMO



RESULT:

Thus, added ammo to increase the bullet count and displayed in play-mode.

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