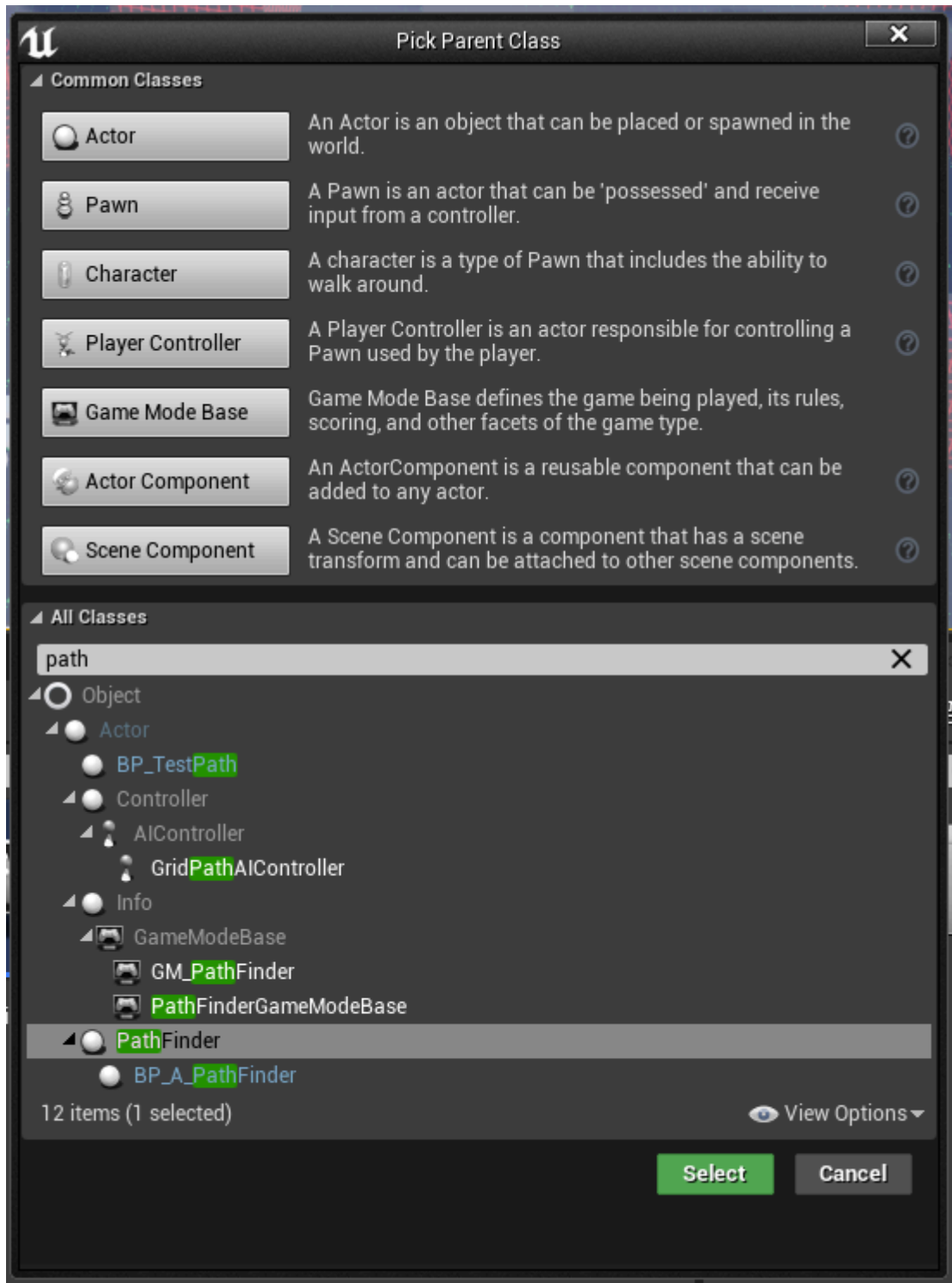
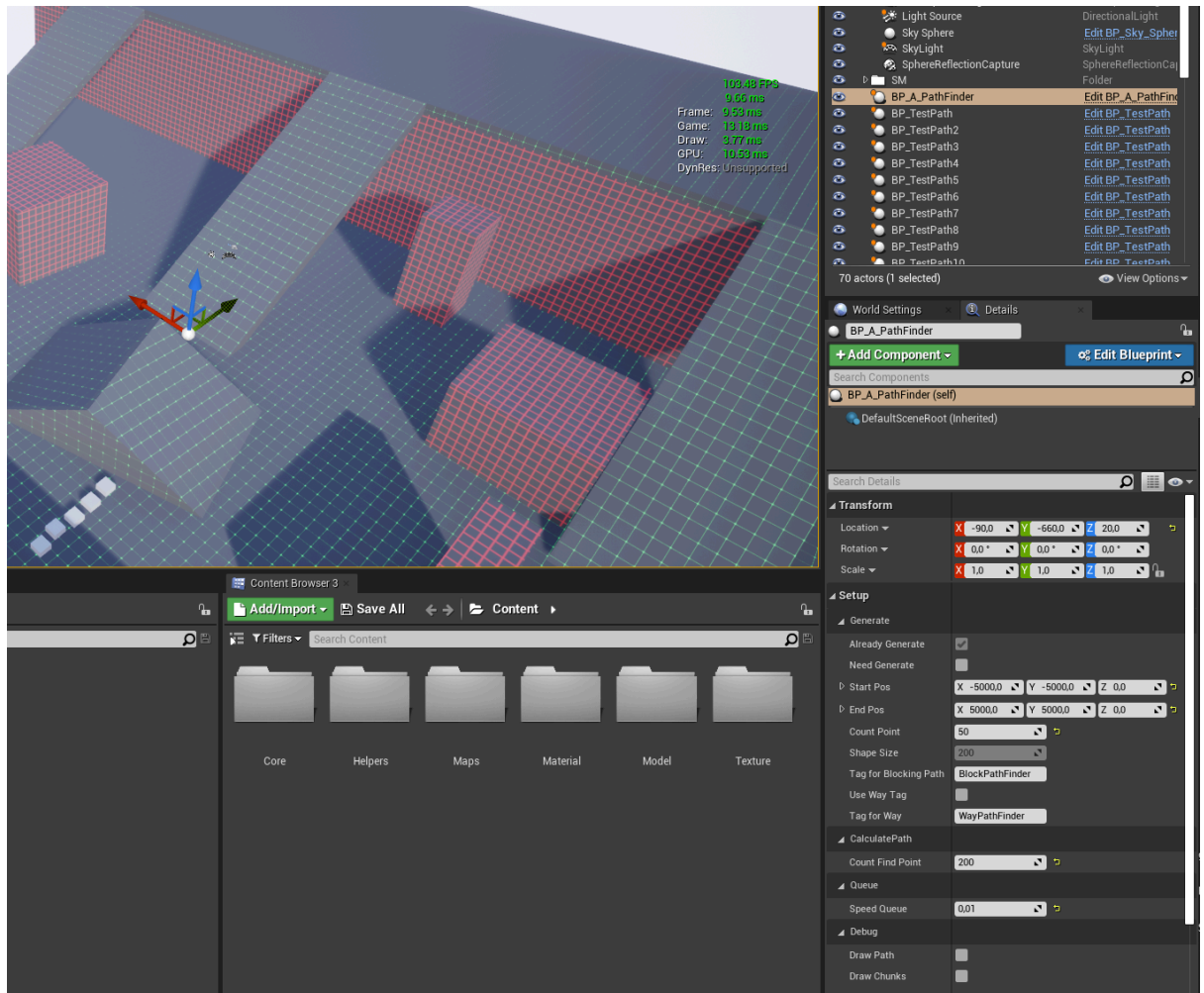


1. Create BP with parent Pathfinder and name it like BP_A_PathFinder



2. Move BP_A_PathFinder to your scene.

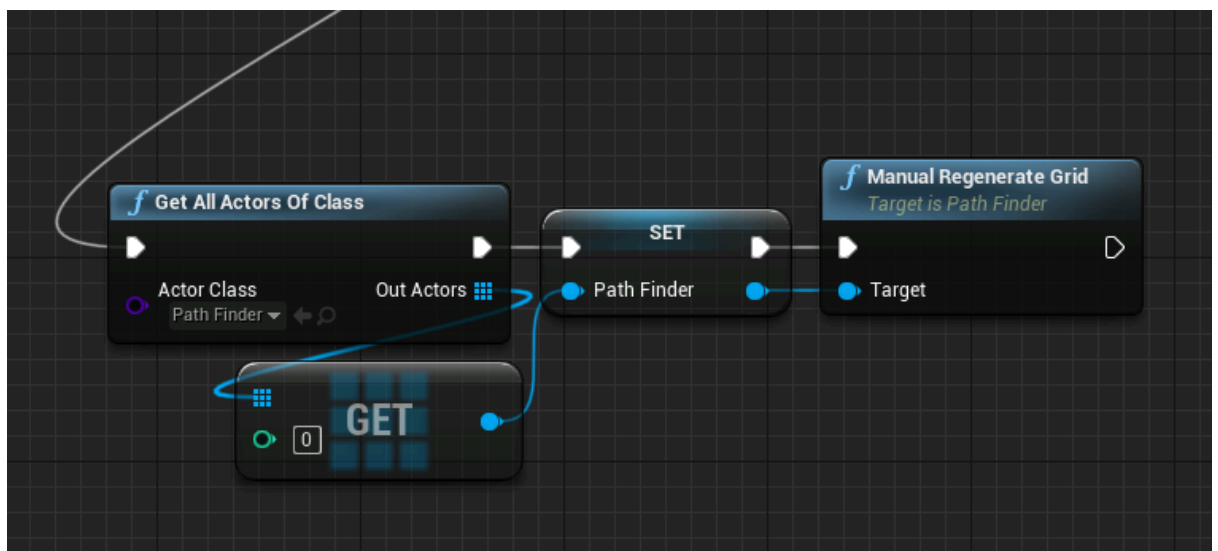


3. Settings:

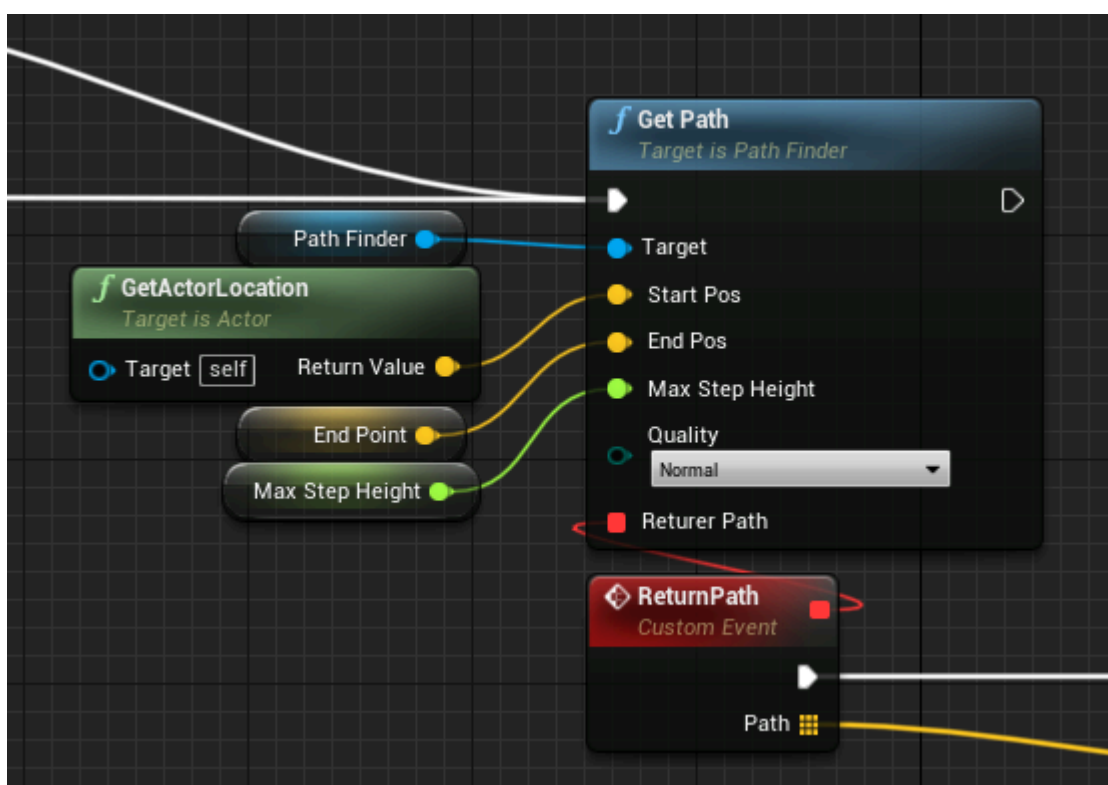
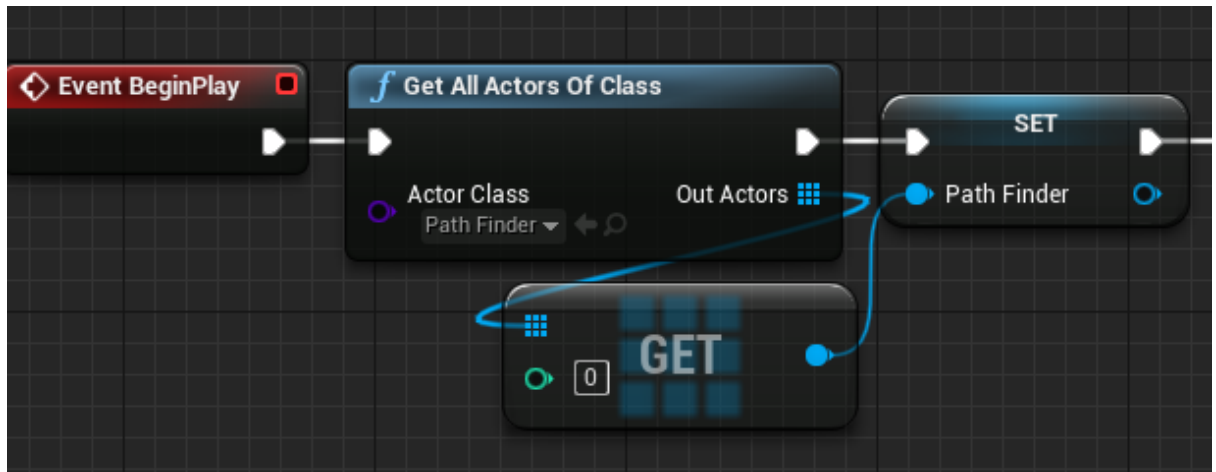
- Need generate - check this check box for generate grid with your settings
- Start Pos - World position of start point to generated grid
- End Pos - world position of end point to generated grid
- Count Point - count by X and Y axes boxes
- Tag for Blocking Path - objects with this tag will be considered impassable and the path will be built bypassing these objects. All other objects will be considered suitable for building a path
- Use Way Tag - if it is necessary to use the checkbox "Tag for the path", then let it be generated only for objects that have this tag, everything else will be considered impassable.
- Tag for Way - tag for the previous item
- Count Find Point - the maximum number of iterations that is available for generating a path. If you have reached the limit, the received path will be returned, which was not completed to the destination point.
- Speed Queue - speed in seconds. the smaller the number, the faster the queue will pass
- Draw Path - after building the path, it will draw it
- Draw Chunks - after building the grid, it will draw the resulting chunks

Setup	
Generate	
Already Generate	<input checked="" type="checkbox"/>
Need Generate	<input type="checkbox"/>
Start Pos	X -5000,0 Y -5000,0 Z 0,0
End Pos	X 5000,0 Y 5000,0 Z 0,0
Count Point	50
Shape Size	200
Tag for Blocking Path	BlockPathFinder
Use Way Tag	<input type="checkbox"/>
Tag for Way	WayPathFinder
CalculatePath	
Count Find Point	200
Queue	
Speed Queue	0,01
Debug	
Draw Path	<input type="checkbox"/>
Draw Chunks	<input type="checkbox"/>

- If you need to regenerate the grid during the game, then BP_A_PathFinder has a function for manually regenerating the grid. You need to call the Manual Regenerate Grid function



5. To get the path in the AI, you need to call the getPath function:



Input:

- Start Pos - location in the world from where you need to build a path.
 - End Pos - location in the world, where you need to build a path.
 - Max Step height - the maximum step height. If you have an object on the stage that a drone can fly into, for example, but a zombie cannot enter, then feel free to play with this value.
 - Quality - The quality of the path search. it has three modes:
 - the first is the fastest, but less accurate;
 - the second one is a little longer, but almost always gives the right path;
 - the third method is the longest, but it gives almost a 100% chance of finding
 - Returner Path - a delegate that will be called after building a path at the output of which your path
6. There is a primitive optimizer of the resulting path, which greatly reduces the volume of the path, but not its quality. To use it, you need to call a separate function

OptimizePath

