Aim System

+ Target () + Inrange()

- ID # Name ID :S # Slot Amount + Weight : Flo # Move Items ( + Add Items(S' + Drop Items() + Equip (): Attack System Move Items () placement with Add Items(Sto Drop Items() : it no longer acc +Hit () +Miss () Equip () :Equip plausible usua

	Inventory
tr : : Int at	
): ore): :	
: Action of changing the item position in the slots, es	sentially moving the item

The act of removing an item from the inventory and placing it where ever the player currently is in the world position, making

the action of moving the items/weapons/amour into primary slots of the player for quick access and application/use not

re): works in conjunction to the pickup action taking and storing items into the inventory.

cessible unless the player picks it back up.

lly by just storing it in the inventory.

Cast
- ID + Name ID : Str + Race ID : Str + World Position X : Float + World Position Y : Float + World Position Z : Float + Level: Int - Inventory : Int
+ Idle (): Int + Walking (): Int + Running (): Int + Patrolling (): Int + Searching/Looking (): Int + Attacking (): Int + Dodging (): Int + Guarding (Defensive) (): Int + Tired (Sleep) (): Int + Drop (): Int + Parry (): Int
Description:
Idle (): Idle is the default state of the player and AI, when no other state is initiated, with the player simply standing in place doing nothing.

Walking (): Walking is a state used to represent the player or AI moving at a moderate pace, altering the Worldposiiton

of the player and adding to the X V 7 values when set

The reason behind the cast it as a placeholder for m functions that can be inher by multiple objects/classes efficient since the Player,N Boss classes/objects have s apply the sam functions, methods, vari

+ Hungry (I + PickUp () + Drinking

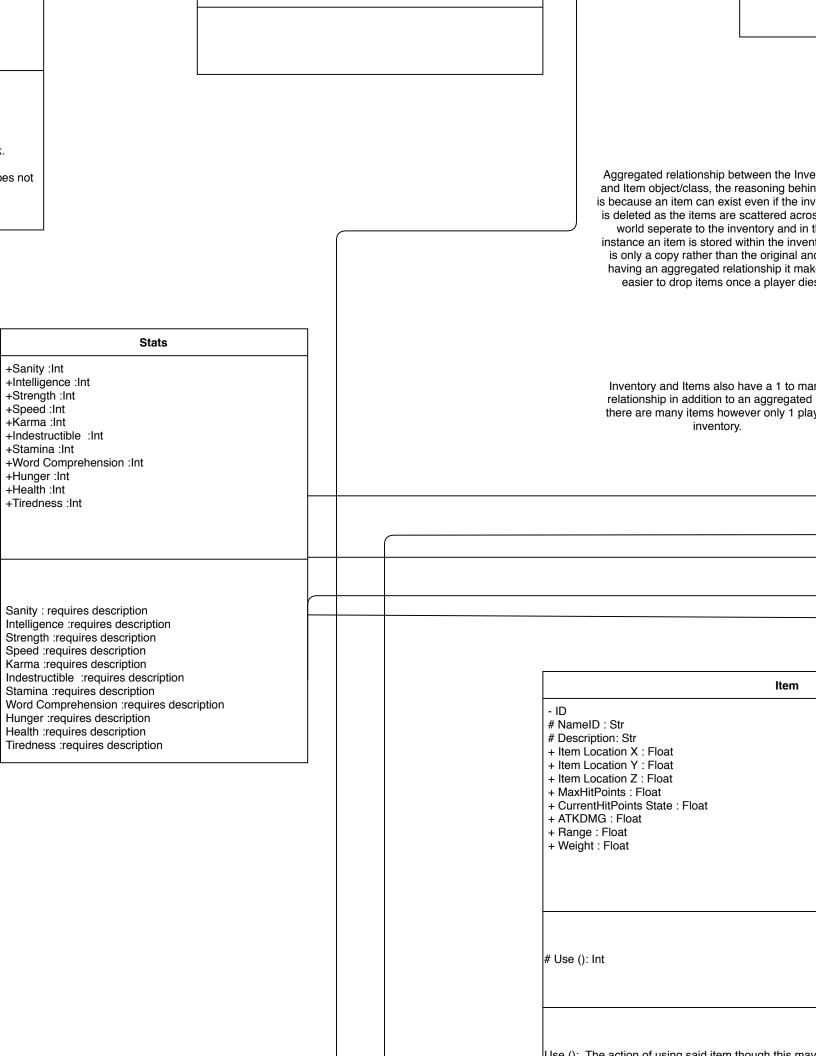
class is to use ethods and ited and used as it is more dob,NPC and similarities and e ables,etc.

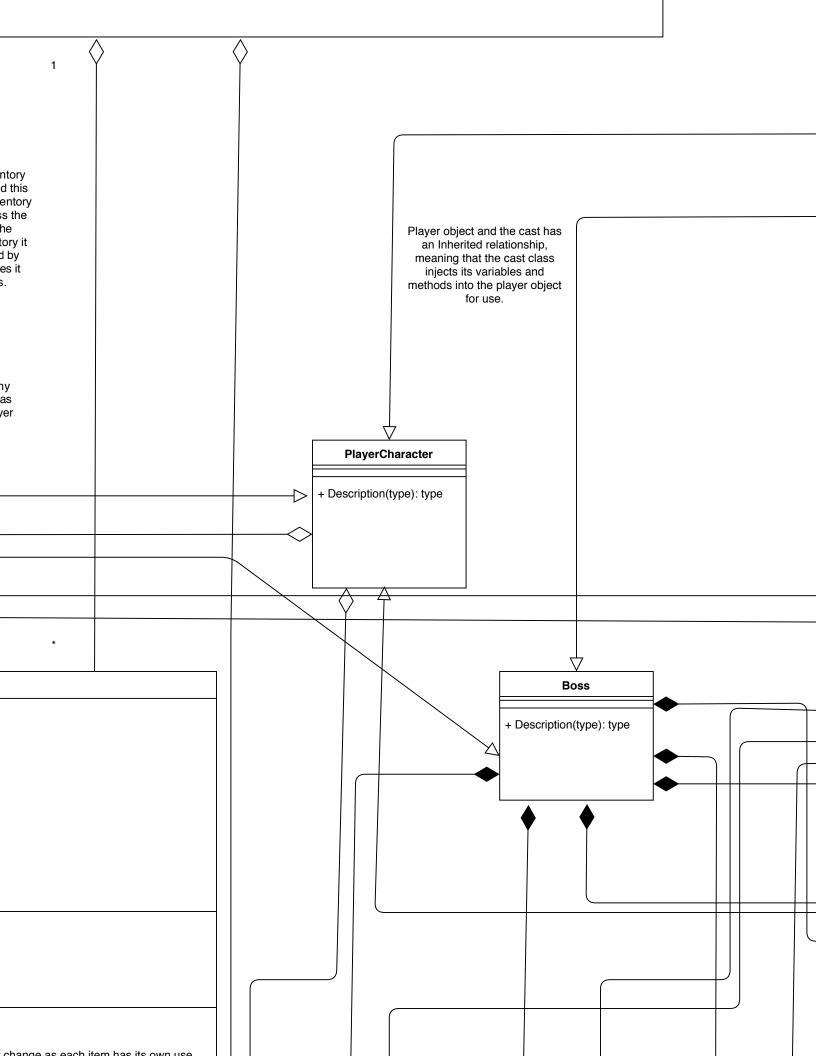
## **Cast Additions**

Eat) ()

Target (): Ta	arget action finds and focuses on a certain Al/enemy for an atta
O 1/	Checks whether any AI are in range for an attack, however this cher the player attacks.

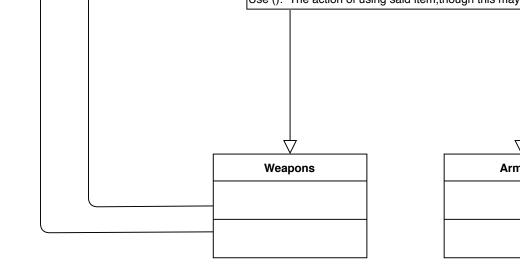
Currency system					

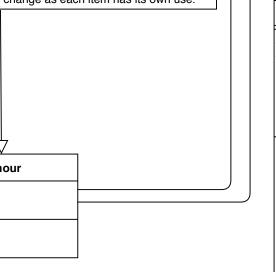




Running (): Running is a state that works similarly to the walk state except the rate in which the player and Al moves is increased with the speed of the X,Y,Z values changing quickening. Hungry (E Patrolling (): Patrolling state is a state primarily for AI used to illustrate the AI following a set pre-mapped path repeating to ensure the and backtracking the path upon completion. The difference between patrolling and the move states 'running' and 'walking' is that the patrolling state functions by having the Al following a set-path rather than a free form roam system. PickUp (): Searching/Looking (): Searching/Looking is a state used as reference for the AI as to the player position, however Drinking () based on range (and terrain if implemented) may effect whether the AI finding said player is successful, at the same time it and AI in relation to looking for items, imitating the action. Attacking (): Attacking state or action used to show and set a player or AI into an attacking phase, relating to the battle system. In this instance the fighting mechanics will see the player being able to attack regardless of the situation, however to properly attack an aim mechanic and something similar to a vat system from fallout 3 will be implemented separating enemy body-parts in sections changing the damage inflicted based on the part chosen and probability of hitting based on the damage inflicted. Dodging (): Dodging is an action or state that can be initiated upon being caught in a fight, a deciding factor in whether a player or AI is hit as upon initiating it is possible to dodge an attack thus not losing health. Though certain stats such as stamina may still go down as is the cost of initiating the action. Guarding (Defensive) (): Similar to the dodge state, the defensive or guarding action nullify's or reduces damage, however unlike dodging, guarding requires the player to take the hit head on meaning that if the level difference/ stats are too large it will not make much of an impact. Tired (Sleep) (): Apply's to both AI and players, this state links to the tiredness stat, which also factors in and affects stamina and sanity. Tired or sleep action is where a player/Al begins the act of sleeping for a period of time not moving, essentially doing nothing, however other stats can still change during this phase. Drop (): Drop state relates to the action of removing and placing/dropping an item on the floor. In this instance the item would drop at a certain X and Y position and upon being in range or on that position it would be possible to pick it back up. Parry (): Parry is the action of warding off (a weapon or attack) with a countermove. Thus turning a bad situation into a favorable one. **NPC** + Description(type): type **Creature Mob** + Description(type): type

nat the player will actua	ally encounter en	
		stored within the internal inventory and storing it.
Drinking associates wi	th the real-life ac	ct of drinking used to represent said act.
	J	





Head
+ DMGMultiplier : Float + HitProbability: Float
+ Description(type): type

## Torso + DMGMultiplier : Float + HitProbability: Float + Description(type): type Left Arm + DMGMultiplier : Float + HitProbability: Float + Description(type): type

Right Arm	Left Leg	Right Leg
+ DMGMultiplier : Float + HitProbability: Float	+ DMGMultiplier : Float + HitProbability: Float	+ DMGMultiplier : Float + HitProbability: Float
+ Description(type): type	+ Description(type): type	+ Description(type): type