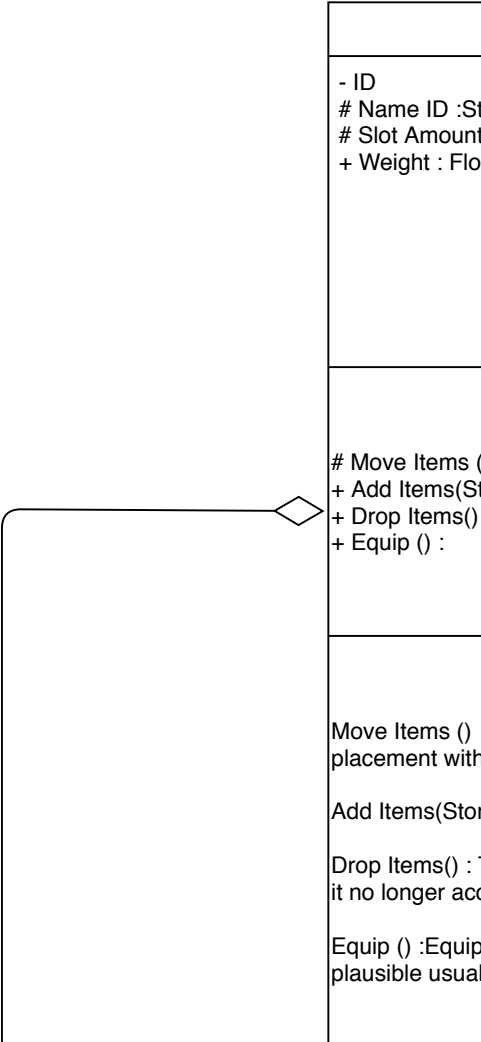
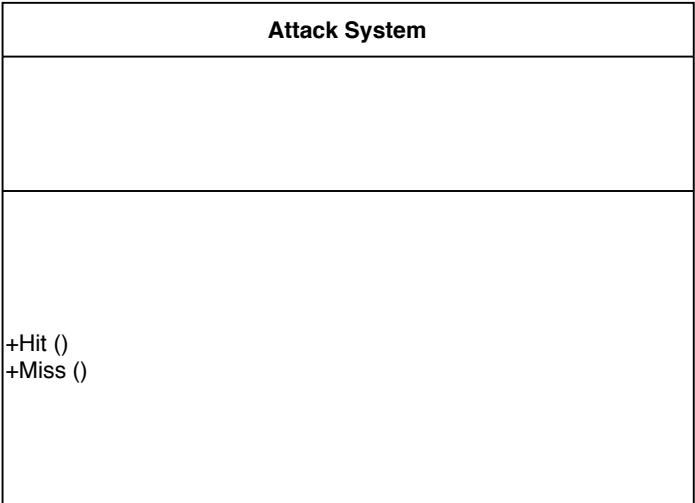


Aim System	
	<div>+ Target ()</div> <div>+ Inrange()</div>



Inventory
<p>tr t : Int at</p>
<p>) : ore) : :</p>
<p>: Action of changing the item position in the slots, essentially moving the item in the inventory.</p> <p>re) : works in conjunction to the pickup action taking and storing items into the inventory.</p> <p>The act of removing an item from the inventory and placing it where ever the player currently is in the world position, making cessible unless the player picks it back up.</p> <p>the action of moving the items/weapons/amour into primary slots of the player for quick access and application/use not ly by just storing it in the inventory.</p>

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 Y Z values when set

The reason behind the cast is to use it as a placeholder for multiple functions that can be inherited by multiple objects/classes, making it efficient since the Player, Mob, and Boss classes/objects have similar functions, methods, and variables.

- + Hungry ()
- + PickUp ()
- + Drinking ()

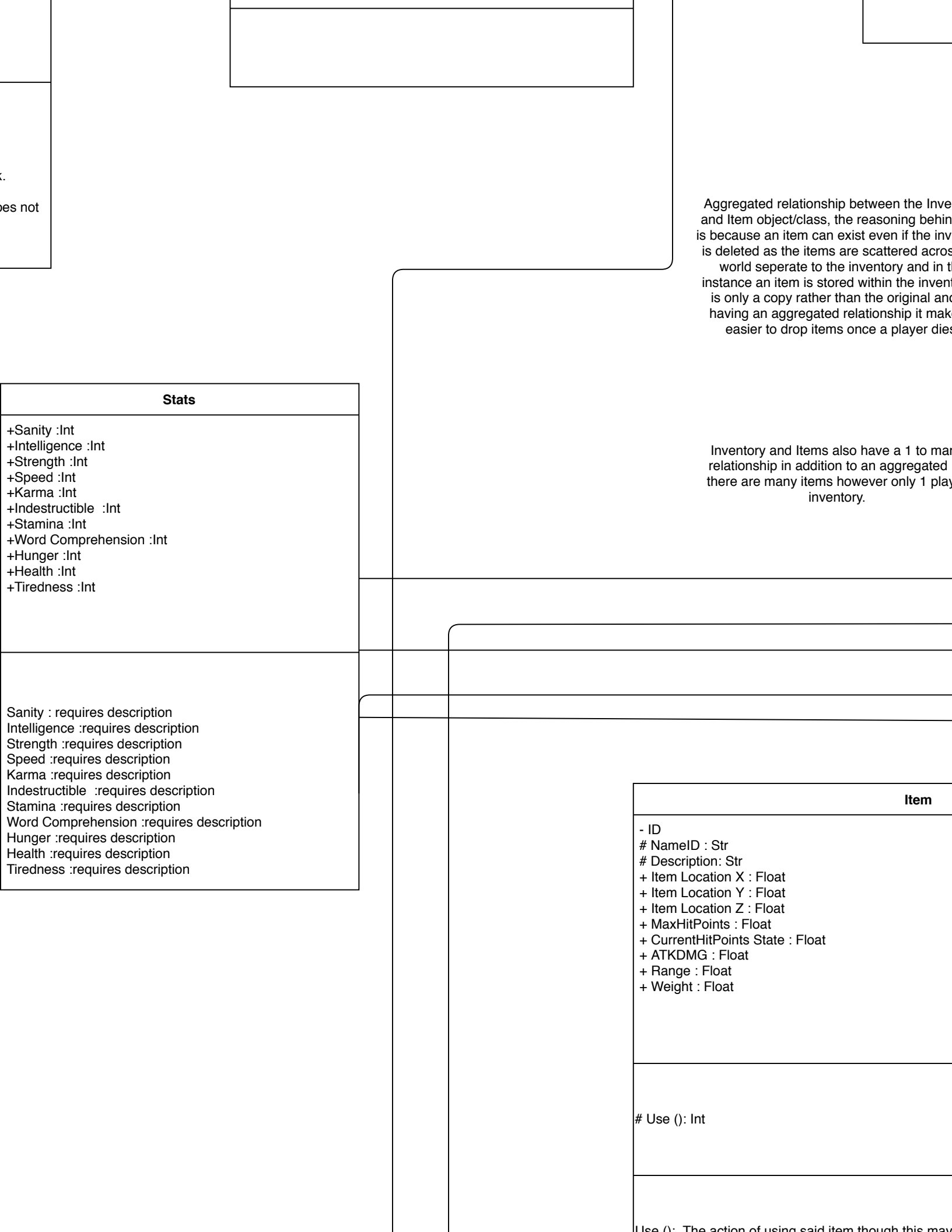
class is to use
methods and
ited and used
s as it is more
Mob,NPC and
similarities and
e
ables,etc.

Cast Additons
Eat) () ()

Target (): Target action finds and focuses on a certain AI/enemy for an attack

Inrange(): Checks whether any AI are in range for an attack, however this does not effect whether the player attacks.

Currency system



k.
does not

Aggregated relationship between the Inven
and Item object/class, the reasoning behind
is because an item can exist even if the inven
is deleted as the items are scattered across
world separate to the inventory and in the
instance an item is stored within the inven
is only a copy rather than the original and
having an aggregated relationship it makes
easier to drop items once a player dies

Inventory and Items also have a 1 to many
relationship in addition to an aggregated
there are many items however only 1 player
inventory.

Sanity : requires description
Intelligence :requires description
Strength :requires description
Speed :requires description
Karma :requires description
Indestructible :requires description
Stamina :requires description
Word Comprehension :requires description
Hunger :requires description
Health :requires description
Tiredness :requires description

- ID
NameID : Str
Description: Str
+ Item Location X : Float
+ Item Location Y : Float
+ Item Location Z : Float
+ MaxHitPoints : Float
+ CurrentHitPoints State : Float
+ ATKDMG : Float
+ Range : Float
+ Weight : Float

Use (): Int

Use (): The action of using said item though this makes

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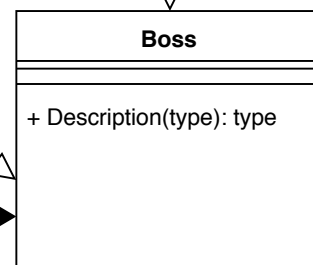
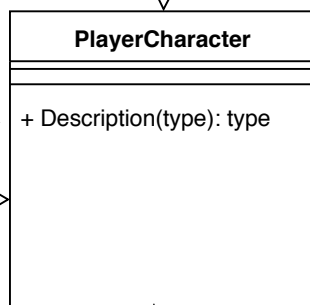
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yer

change as each item has its own use

1

*

Player object and the cast has
an Inherited relationship,
meaning that the cast class
injects its variables and
methods into the player object
for use.



eat) (e):Action of eating, applies to NPC's and Players excluding enemy's and bosses,so as
that the player will actually encounter enemy's.

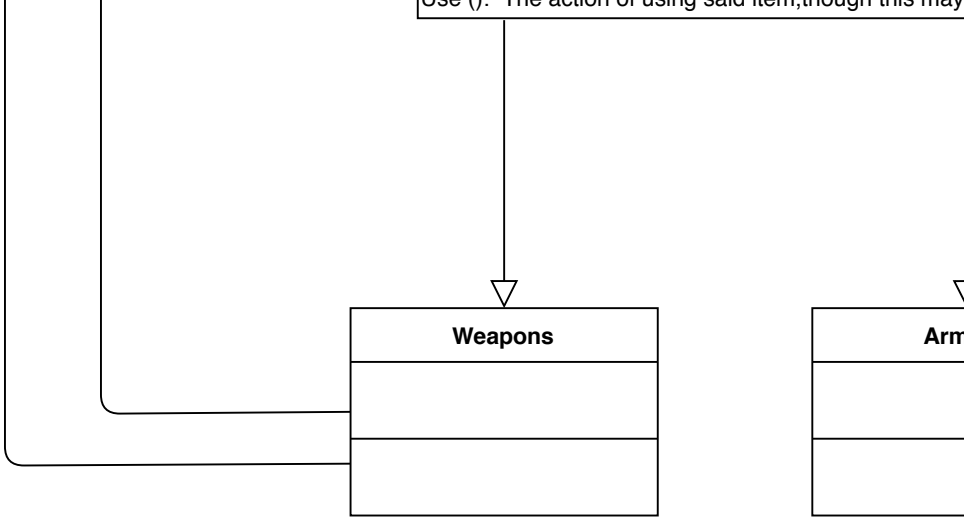
Action of taking an item not previously stored within the internal inventory and storing it.

:Drinking associates with the real-life act of drinking used to represent said act.

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Use (j). The action of using said item, though this may



change as each item has its own use.

our

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

	<table><tr><th>Right Arm</th></tr><tr><td>+ DMGMultiplier : Float + HitProbability: Float</td></tr><tr><td>+ Description(type): type</td></tr></table>	Right Arm	+ DMGMultiplier : Float + HitProbability: Float	+ Description(type): type	<table><tr><th>Left Leg</th></tr><tr><td>+ DMGMultiplier : Float + HitProbability: Float</td></tr><tr><td>+ Description(type): type</td></tr></table>	Left Leg	+ DMGMultiplier : Float + HitProbability: Float	+ Description(type): type	<table><tr><th>Right Leg</th></tr><tr><td>+ DMGMultiplier : Float + HitProbability: Float</td></tr><tr><td>+ Description(type): type</td></tr></table>	Right Leg	+ DMGMultiplier : Float + HitProbability: Float	+ Description(type): type
Right Arm												
+ DMGMultiplier : Float + HitProbability: Float												
+ Description(type): type												
Left Leg												
+ DMGMultiplier : Float + HitProbability: Float												
+ Description(type): type												
Right Leg												
+ DMGMultiplier : Float + HitProbability: Float												
+ Description(type): type												

