

Javascript or C#

This project contain both of Javascript and C# version But we recommended to choose one to prevent the problem.

All of the C# version are in "CsharpExample" Folder

The other outside CsharpExample Folder are JavaScript Version

- If you choose C# you should use all Objects all Prefabs and All Example in "CsharpExample" Folder
- If you choose Javascript version you should **ignore** the "CsharpExample" Folder and use all examples outside that folder



How to Spawn Player

We recommend you to use "SpawnPlayer" Script to spawn Player. First create Empty GameObject(Or any GameObject) and attach use "SpawnPlayer" Script from Script folder to it and assign Your Player's prefab to the Player Variable.

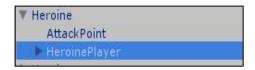
When you start the game Your Player will spawn at the Spawn Point. It can work well althought your player come from the other scene.



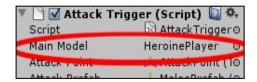
How to Create Player

Easy Tip:

The fastest way to create player. You can use the example character(Heroine) from Prefab folder then replace "HerionePlayer" Model in the prefab with your character Model



After that Assign your character model to the "Main Model" Variable in Attack Trigger script



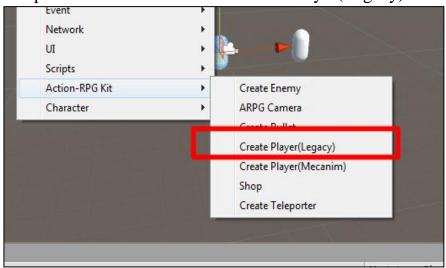
Then set the animation in "AttackTrigger" and PlayerAnimation to match With your character.

Now your character will ready to use.

However you can create the new one by this step.

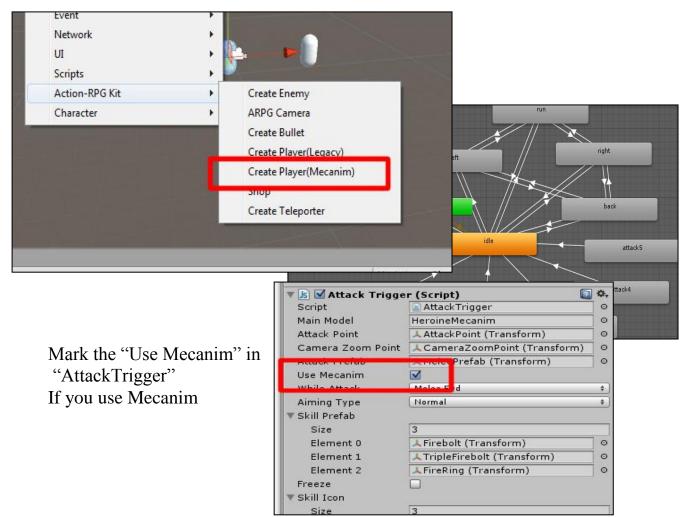
After import your character if you use Legacy animation.

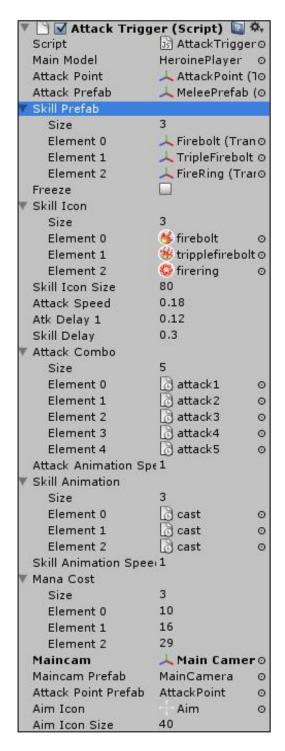
Go to "Component / Action-RPG Kit / Create Player(Legacy)"



If you use Mecanim Animation.

Go to "Component / Action-RPG Kit / Create Player(Mecanim)"





Main Model - Character's Main Model Attack Point - The bullet's start point

Attack Prefab - Store the bullet's variable from "normal attack" in this example, we use MeleePrefab (It locate in Prefab/Skill) which the in fight attack

Skill Prefab - Store the bullet's variable from "skill"

Freeze - If you mark on this, the character will freeze

Skill Icon - The skill icon's graphic

Skill Icon Size - The skill icon's graphic the show in the screen

Attack Speed - The normal attack's speed Attack Delay - The normal attack's delay

Skill Delay - The skill's delay

Attack Animation - The normal attack animation name. Max

Combo depend on Size of Attack Animation

Skill Animation - The skill animation's name Mana Cost - The MP's require for skill

Maincam - Use as camera's reference. If you weren't set

this, the system will find it from Tag

MainCamera.

Aim Icon - Target Icon

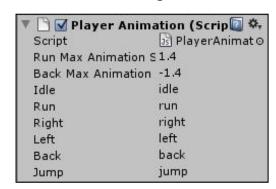
Aim Icon Size - Target Icon's size

While Attack - MeleeFwd = Move forward a little when attack

- Immobile = Can't move while attacking

- WalkFree = Can walk freely while attacking

Now, you can move your character as you like. Next, we will set the character animation in the "PlayerAnimation" script to your character (Your model must split animation first before start this step)



The details are following

Run Max Animation – The animation's speed when character run

Back Max Animation – The animation's speed when character backward

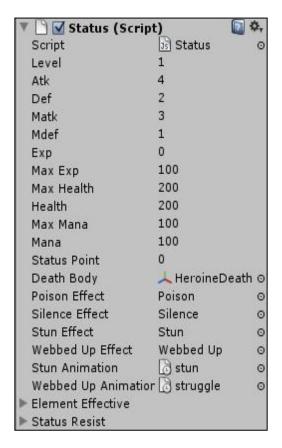
Idle - The animation's name when character is within Idle pose

Run
 The animation's name when character run forward
 The animation's name when character run right side
 The animation's name when character run left side
 Back
 The animation's name when character run backward

Jump - The animation's name when character jump

Now, test the project to see your character various pose while it moves. Next is the heart of our tutorial "The Status system"

First, drag "status's script" to the character. This script will store all of player's basic data such as Level, HP, MP, EXP, Attack and Defend

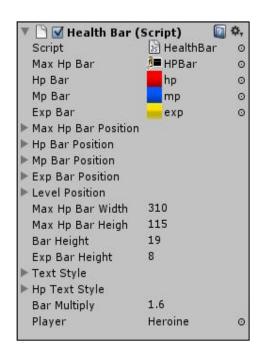


These variable's names are self explanation. However, the Death body's variable is different. When the character is dead, the system will spawn this prefab. So, you have to create the prefab that shows your character's death pose and put in the death body variable. Now, the script can work perfectly.

- Poison Effect , Silence Effect and Stun Effect is the prefab Use when character suffer by those status ailment.
- Elemental Effective use to make elemental defence more value more damage you take from that element
 - Status Resist is the resistance of status ailment.

Next, drag "Status Window's script" into your character. This script can show the character's status by press the C button. In addition, you can upgrade your character's status when your character is level up. This script have a variables name "Text style" and "Text Style 2". Its use for set the font.

The next important one is HP. Drag it to your character. The configurations are following.



Max HP Bar - The Max HP gauge bar graphic

HP Bar - The HP bar graphic
MP Bar - The MP bar graphic
EXP Bar - The EXP bar graphic

Max HP Bar Position - The Max HP gauge bar's position

HP Bar Position - The HP bar's position
MP Bar Position - The MP bar's position
EXP Bar Position - The EXP bar's position
Level Position - The Level's position
Max HP BarWidth - The HP bar's width
Max HP BarHeight - The HP bar's height

Bar Height - The HP and MP bar's height

EXP Bar Height - The EXP bar's height

Text Style - The level number's text style HP Text Style - The HP and MP's text style

Bar Multiply - The HP bar's width when the character's

hp is 100% by multiple with 100. For example, if the gauge width is 160 pixel. You have to multiple by 1.6. if the gauge width is 300 pixel. You have to

multiple by 3.

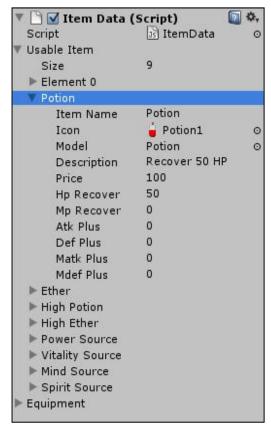
Player - Incase that you didn't set this, the system will

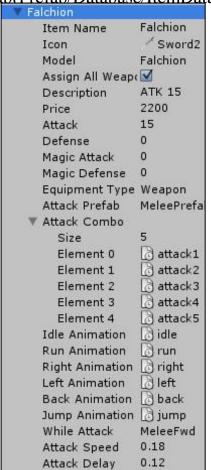
automatically find the object from "Player" Tag

Items and Inventory

You can use "ItemDatabase" prefab(Prefab/Database/ItemDatabase)

As a Database





You can add new item data by edit Size in "Usable Item" and "Equipment"

The Element number is an ID of your item. It very important to use with the Shop and Inventory

Equipment

Assign All Weapons – If your character carry more than 1 weapon

(ex. Dual sword). When you swap weapon

It will swap all weapon mesh.

Attack Combo - Change Player Attack Animation when equip

this weapon

Idle , Run , Right , Left , Jump Animation - Change Player movement animation when equip this weapon

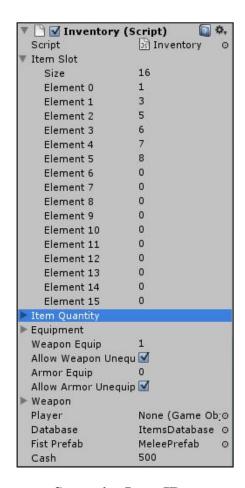
While Attack - MeleeFwd = Move forward a little when attack

- Immobile = Can't move while attacking

- WalkFree = Can walk freely while attacking

Inventory

The Inventory script will attach to the player character. This script Contain variable of Item ID. The reference of the item ID is from ItemDatabase



Item Slot - Store the Item ID

Item Quantity - Store quantity of the items
Equipment - Store the Equipment ID

Weapon Equip - ID of your equipped weapon

Allow Weapon Unequip - If uncheck this You cannot unequip your

weapon

Armor Equip - ID of your equipped armor

Allow Armor Unequip - If uncheck this You cannot unequip your

Armor

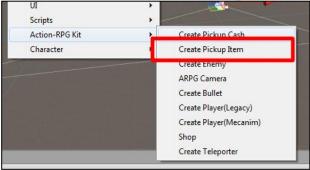
Database - Reference of ItemData

(Prefab/Database/ItemDatabase) is the default

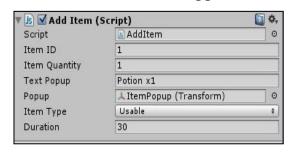
Pickup Items

You can add the item to your Inventory by create new game Object Go to "Component / Action-RPG Kit / Create Pickup Item"

Scripts Action-RPG Kit Create Pickun Cash



Then mark on the "Is Trigger" in Collider





ID of item Item ID

Item Quantity Quantity of the item

Type of the item(Usable and Equipment) Item Type **Duration** Duration of this object to stay in the world

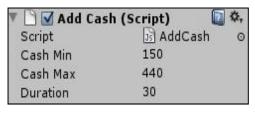
If = 0 the object will not destroy until player

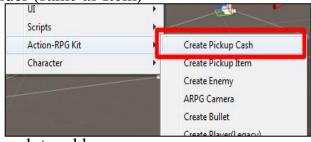
Pick it up

Add Cash

You can add the cash to your Inventory by create new game Object Go to "Component / Action-RPG Kit / Create Pickup Cash"

Then mark on the "Is Trigger" in Collider (same as Item)





Cash Min Minimum of cash to add Cash Max Maximum of cash to add

Duration of this object to stay in the world Duration

If = 0 the object will not destroy until player

Pick it up

This Script will calculate random range of "Cash Min" and "Cash Max" To add

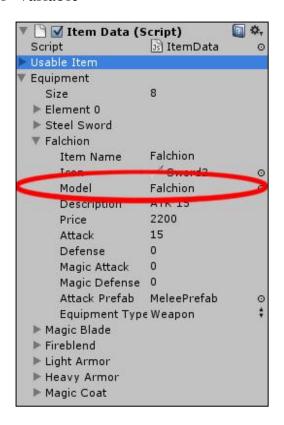
How to Swap Weapon's Model with this kit



First Assign the main weapon's model in the characters to Weapon Variable in Inventory Script (If your character have more than 1 weapon (Ex. Twin Swords) you should assign all of them too)



Then in the "ItemDatabase" of the weapon Assign weapon model To the "Model" variable

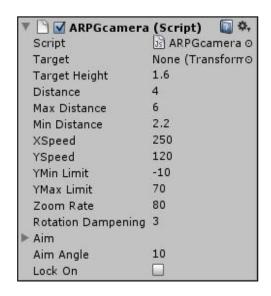


When you equip the weapon. If you do both step collectly. The system will swap Weapon Model.



Main Camera

There is Main Camera for Action-RPG Starter Kit in "Prefab / Player / MainCamera" You can setting the value here.



Target - The camera's target. If it don't have any target,

the system will find it from Tag Player.

Target Height - The camera's height from the target

Distance - The camera's length

Max Distance - The farthest camera's length
Min Distance - The shortage camera's length
Xspeed - The camera's speed in X axis
Yspeed - The camera's speed in X axis
Ymin Limit - The lowest camera's angle
Ymax Limit - The highest camera's angle

Zoom Rate - The Zoom's speed

Rotation Dampening - The camera's delay

Aim Angle - Set the aim to the target by reference from

AttackTrigger

Lock On - If you mark on this, the character will always

head toward the camera

In addition, you can use LockMouse script into anyplace on the stage to hide the mouse cursor. The list of camera's components are following.

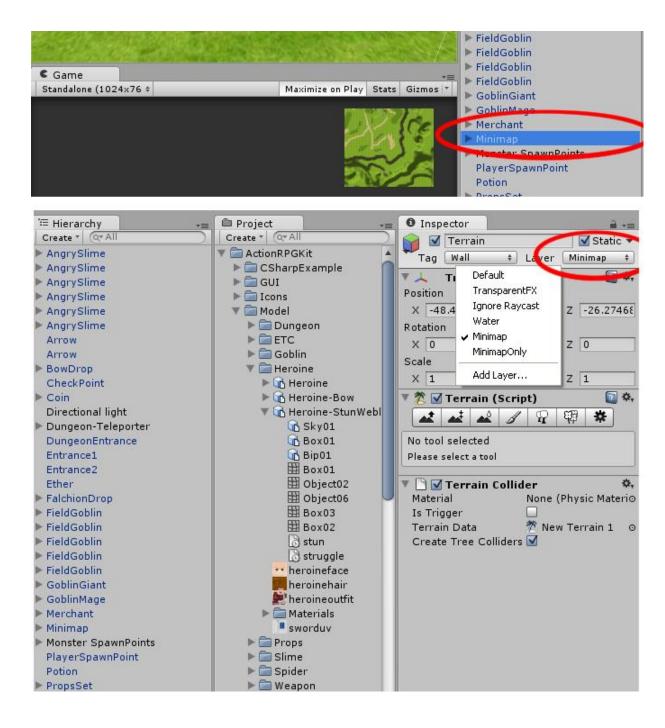
- ARPGcamera
- LockMouse

Minimap

First you have to drag "Minimap" from "Prefab Folder" to the scene you want to show the minimap.

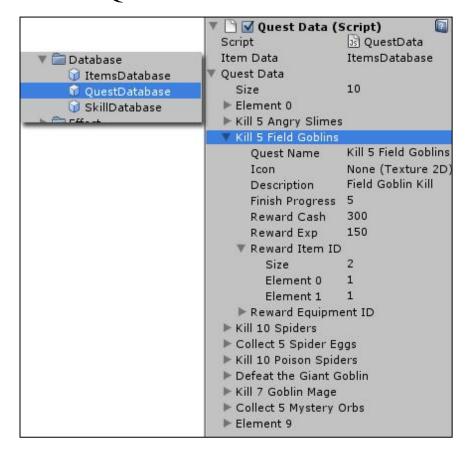
Then you can change the Layer of the object you want to show in Minimap

- "Minimap" Layer will make the object show in minimap.
- "MinimapOnly" Layer will make the object show in minimap only and not show in the scene



How to Create Quests

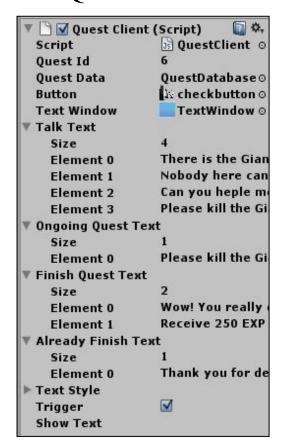
Quest Data



You can add new quest in Database folder (Prefab/Database /QuestDatabase)

-Finish Progress ex. If your quest is kill 5 Goblins you should set Finish Progress to 5

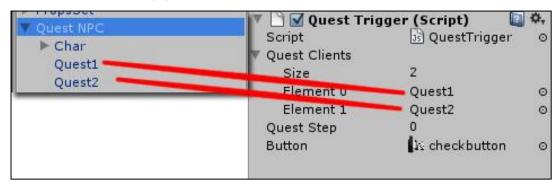
Quest Client



Quest Client script is for Quest NPC

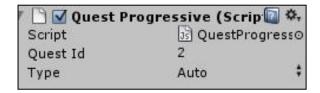
- Quest ID = ID of quest (match to the QuestData)
- Quest Data = Database of the quest

Quest Trigger



Quest Trigger Script is for NPC who have more than 1 quest. For example it will start with quest in Element0. When you finish the quest it will activate new quest until all of quest you Assign to the "QuestClients" variable.

Quest will be the GameObject and must contain the "Quest Client" script



Quest Progressive

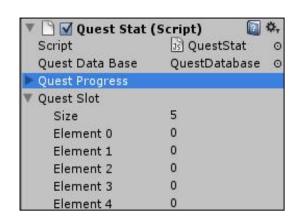
This script use for increase the progress of your quest status. For example you can assign it to the Monster's Death Prefab or Item

Quest ID - ID of the quest you want to increase.

Type - Auto = Automatic increase your quest stat

- Trigger = You must collide the object to increase quest stat

Quest Stat

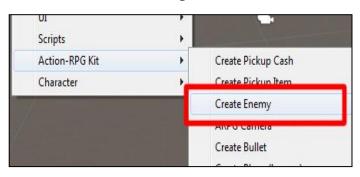


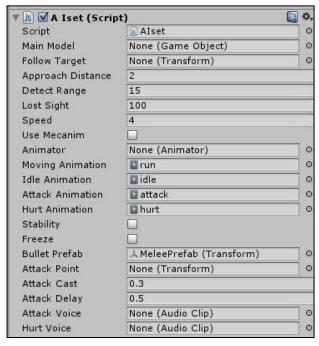
Attach to the player for save variable of The quests.

How to Create Monster

After we import the monster's model and split the animation.

Go to "Component / Action-RPG Kit / Create Enemy"





Main Model - Main Model for play animation

Follow Target - The enemy's target. If it doesn't have, the

enemy will aim the Player Tag.

Approach Distance - The closest distance between enemy and target

Detect Range - The enemy's detect range

Lost Sight - The length that enemy will stop to follow the

target

Speed - Enemy's speed movement

Use Mecanim - Use it if you use Mecanim Animation

Moving Animation - The Enemy walking animation's name

Idle Animation - The Enemy idle pose animation's name
Attack Animation - The Enemy attack animation's name

Stability - If you mark on this, The enemy will not flinch

by the attack from character

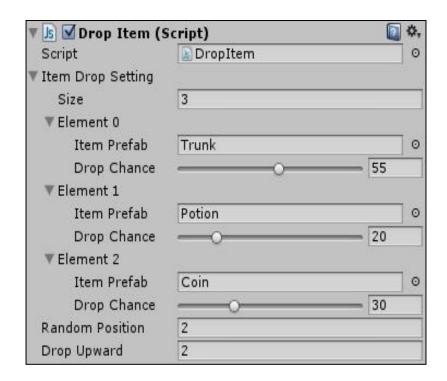
Freeze - If you mark on this, the enemy will freeze

Bullet Prefab - Store the enemy bullet's variable
Attack Point - The enemy bullet's starting point
Attack Cast - The time before enemy attack
Attack Delay - The delay after enemy attack

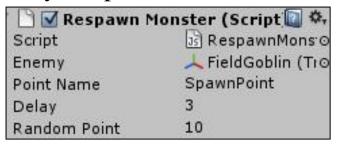
Enemy Drop Items

When enemy dead. Status Script will spawn it's Death Body Prefab In the Death Body Prefab you should attach the "GainEXP" Script to it. The Player will gain EXP when monster's death prefab is spawn

Attach the "DropItem" Script to the monster's death prefab when monster's death prefab is spawn. It will be random Drop the item from the script



Enemy Respawn



Attach to the enemy's death prefab like "DropItem" script

Enemy - Prefab of the Enemy to respawn

Point Name - Name of all respawn point the monster will random

Respawn at the position of object with the same name

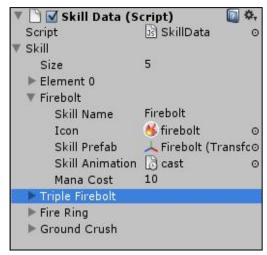
As this variable

Delay - Delay after enemy death until it respawn

Random Point - Random variance of the respawn position a little

How to Create Skill(Database)

You can use "SkillDatabase"prefab(Prefab/Database/SkillDatabase) As a Database

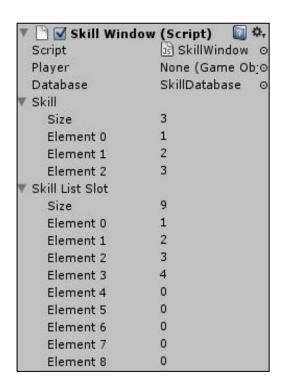


You can add new skill data by edit Size in "Skill" variable

The Element number is an ID of your skill. It very important to use with the Skill Window

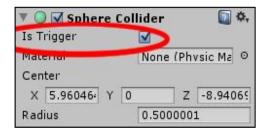
Skill Window

The Skill Window script will attach to the player character. This script Contain variable of Skill ID. The reference of the skill ID is from SkillDatabase

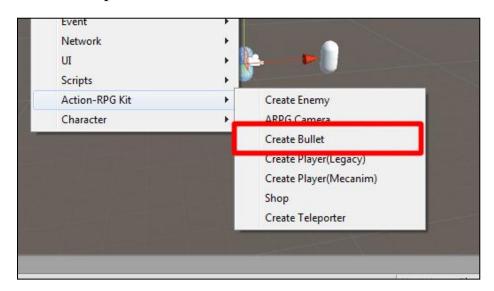


How to Create Skill(Bullet)

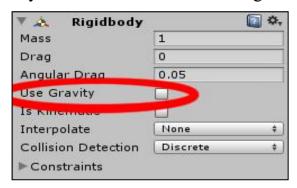
Now we can make both player and monster. Let's create the attack skill for them. In this example we will make a bullet. After you make a bullet model for use in this skill, mark on the Is Trigger

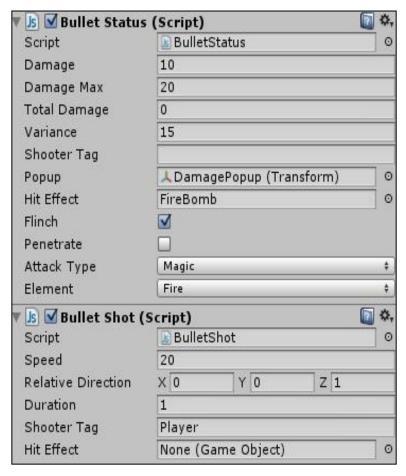


Then Go to "Component / Action-RPG Kit / Create Bullet"



After that, mark on Rigidbody at Component/Physics/Rigidbody and mark Use Gravity off for doesn't calculate the gravity.





Damage - The bullet's lowest Damage Damage Max - The bullet's highest Damage

Variance - The damage variance

Popup - Store Prefab for show the damage on screen. In this

example, we use DamagePopup from Prefab folder

Hit Effect - The Bullet hit effect

Flinch - If you mark on this, when the target will flinch after

impact with bullet

Penetrate - Bullet will not destroyed when hit the enemy

Attack Type - Physic = Physic Attack

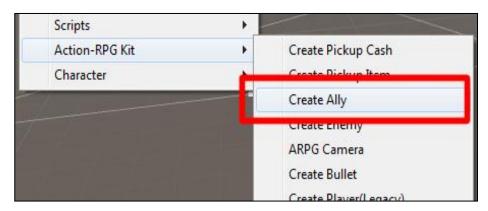
Magic = Magic Attack

Element - Element of this bullet

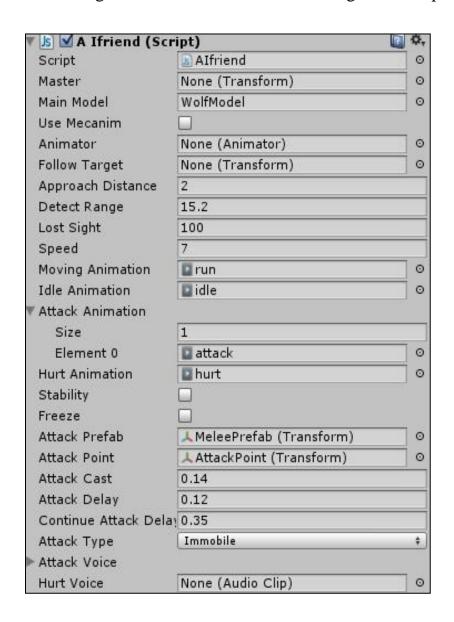
In the BulletShotl script, there are only 2 main variable. The speed and duration for setting the bullet speed and the bullet's remain time. When the bullet were shoot from Tag Player. The target will become Tag Enemy. In contrast, if the bullet were shoot from the enemy. The player will become the target. When the bullet hit the object with "Wall" tag, the bullet will disappear. The components that use for skill are below.

Summoning Skill

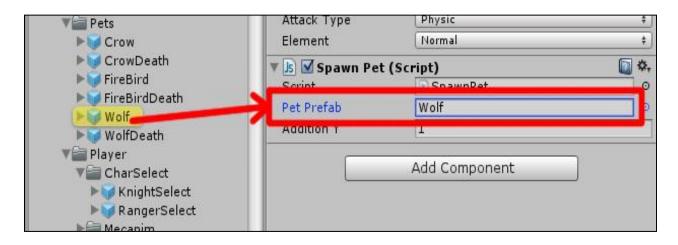
First create your ally AI. After import the model Go to "Component / Action-RPG Kit / Create Ally"



Then setting the value in "Alfriend" and assign it to the prefab

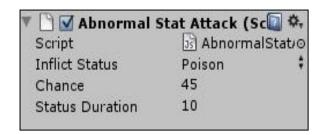


After the Ally prefab ready. Create new empty game object. Attach the "SpawnPet" script to it. Then assign the Ally prefab to "Pet Prefab" variable





Abnormal Status



Attach to the Skill Prefab or Attack Prefab.

Inflict Status - What kind of Status to inflict to target

Chance - Chance of success rate

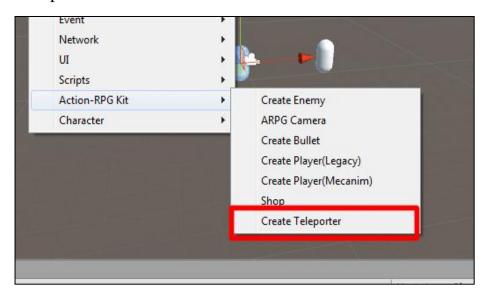
Status Duration - Duration of abnormal status



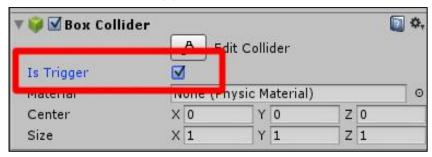
.

Teleporter

You can teleport your player to the other scene by create The box object and Go to "Component / Action-RPG Kit / Create Teleporter"



Mark on "Is Trigger" in collider



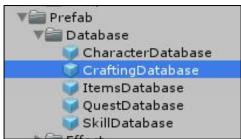


Teleport to Map - Go to Scene name

Spawn Point Name - Name of game object to move player to that object position.

Crafting System

You can setting the crafting Database in "Prefab / Database / CraftingDatabase"



Now you can setting value of "ingredient" item id and "got item" id (ID from element of ItemDatabase)



For example if you wabt to create Magic Blade by using

1 Falchion(ID: 2, Equipment)
3 High Ether(ID: 4, Usable)
5 Spider Venom(ID: 13, Usable)

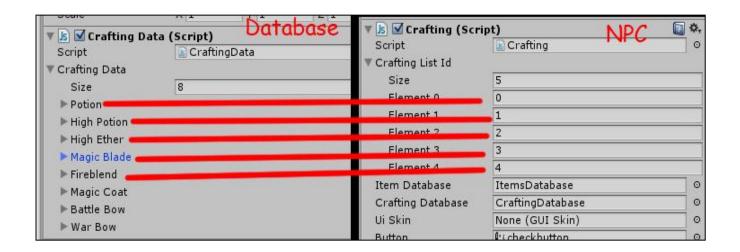
You will got

1 Magic Blade(ID: 3, Equipment)

You can setting value same as the picture above.

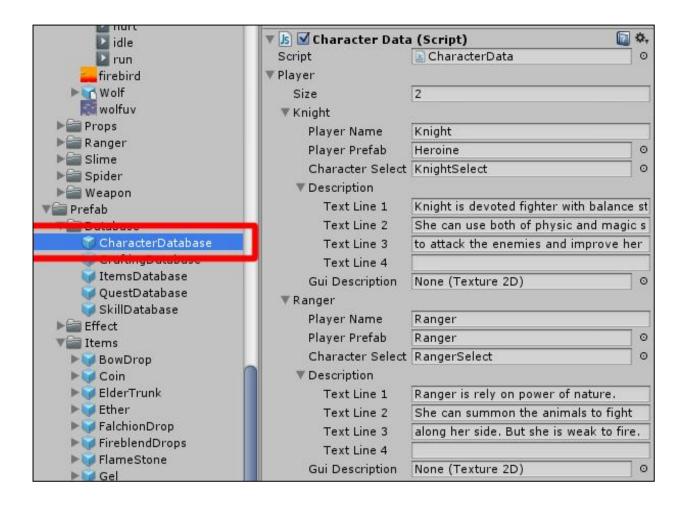
Crafting NPC

There is Crafting NPC example in "Prefab / CraftingNPC" You can edit the list of crafting that npc can craft by setting ID of Crafting Database.



Character Selection

In the Title scene. There is "Title" script to make title window and Character Selection. You can add new player in Character Selection by go to "Prefab / Database / CharacterDatabase"



Assign Player prefab to "Player Prefab" Variable

"Character Select" Variable is store the model for show when selecting scene.

Advance Status

In status script, you can modify various functions such "How much the skill point and max HP will increase when the character level up". Looking in the example below.

function LevelUp

```
statusPoint += 5;
```

You can set 5 to other number as you want, when your character is level up, it will get the skill point same as the setting variable.

```
maxExp = 1.25 * maxExp;
```

When Level up, character max EXP will extend by 25%

```
maxHealth += 20;
maxMana += 10;
```

Same as above, you can set them as you want.

function OnDamage and OnMagicDamage

When the damage occur, this function will be called. You can adjust the status calculate formula as much as you want