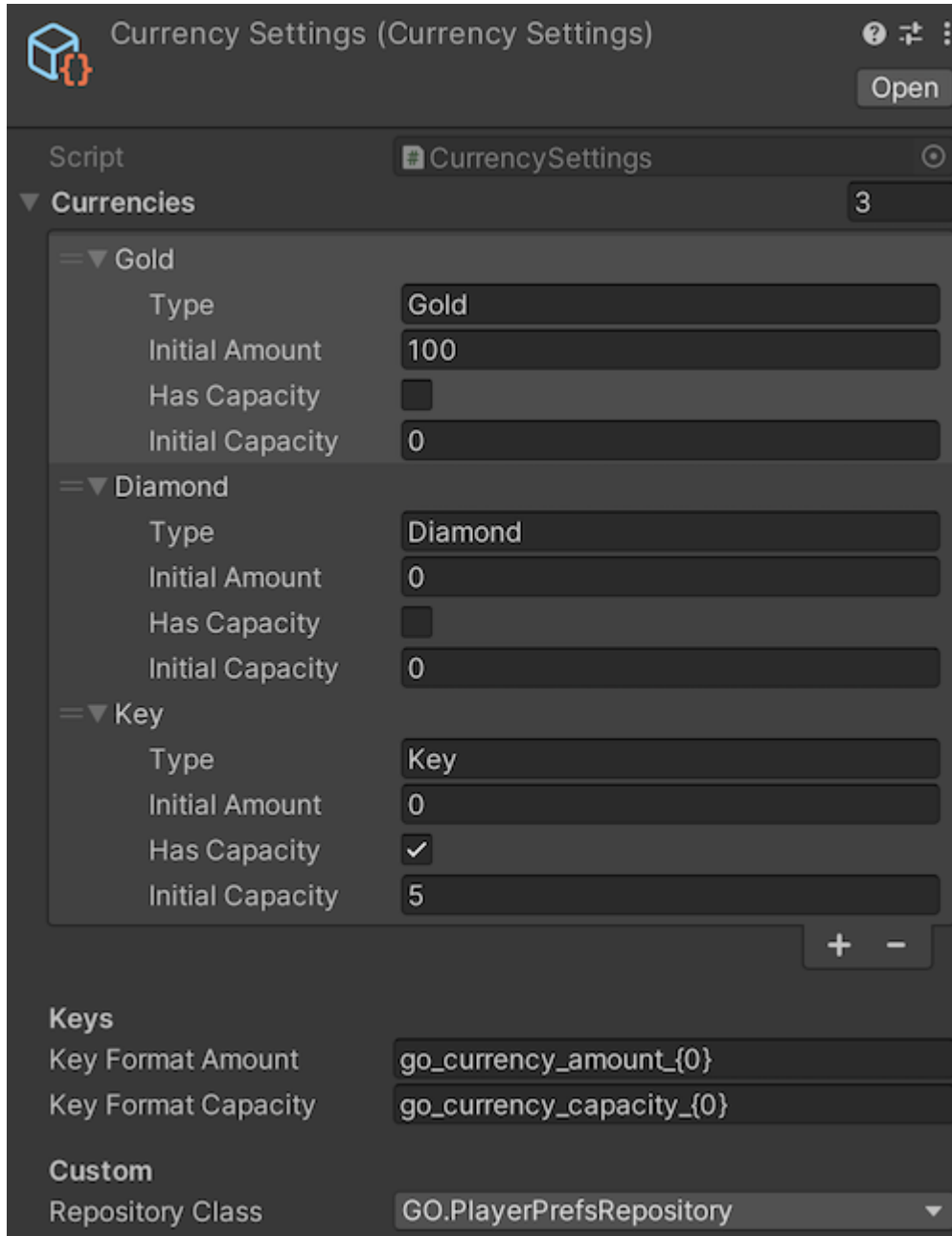


Currency System

Settings

System will automatically generate **CurrencySettings** scriptable object under **Assets/Resources**. Do not move it. Even if it is moved, system will generate a new one there and use it.



Currency Settings (Currency Settings)

Script: CurrencySettings

Currencies 3

- Gold**
 - Type: Gold
 - Initial Amount: 100
 - Has Capacity: ☐
 - Initial Capacity: 0
- Diamond**
 - Type: Diamond
 - Initial Amount: 0
 - Has Capacity: ☐
 - Initial Capacity: 0
- Key**
 - Type: Key
 - Initial Amount: 0
 - Has Capacity: ☒
 - Initial Capacity: 5

Keys

Key Format Amount: go_currency_amount_{0}

Key Format Capacity: go_currency_capacity_{0}

Custom

Repository Class: GO.PlayerPrefsRepository

1. Currencies

Here you need to define your currencies.

- **Type** -> Defines the type of currency.
- **Initial Amount** -> With how much currency user will have at start.
- **Has Capacity** -> Capacity option for currencies like key or energy.
- **Initial Capacity** -> Initial capacity of currency.

2. Keys

These keys are used to store currencies' data. By default, it doesn't need a configuration and data is stored at `PlayerPrefs`. If any other method is needed, you need to [implement an IRepository](#) that suits your needs. Only then you may need to change these keys to match your services' ids or keys.

3. Custom

- `Repository Class` -> Type of repository to use.

API Usage

```
// To get currency
int goldAmount = CurrencyManager.Get("Gold");

// To set currency
CurrencyManager.Set("Gold", 100);

// To add currency
int newTotalAfterAddition = CurrencyManager.Add("Gold", 100);

// To remove currency
int newTotalAfterRemoval = CurrencyManager.Remove("Gold", 100);

// To check if has enough
bool hasEnough = CurrencyManager.Has("Gold", 100);

// To delete key data
CurrencyManager.Clear("Gold");

// To get capacity
int keyCapacity = CurrencyManager.GetCapacity("Key");

// To set capacity
CurrencyManager.SetCapacity("Key", 10);

// To check if currency has capacity option
bool hasGoldCapacity = CurrencyManager.HasCapacity("Gold"); // false
bool hasKeyCapacity = CurrencyManager.HasCapacity("Key"); // true

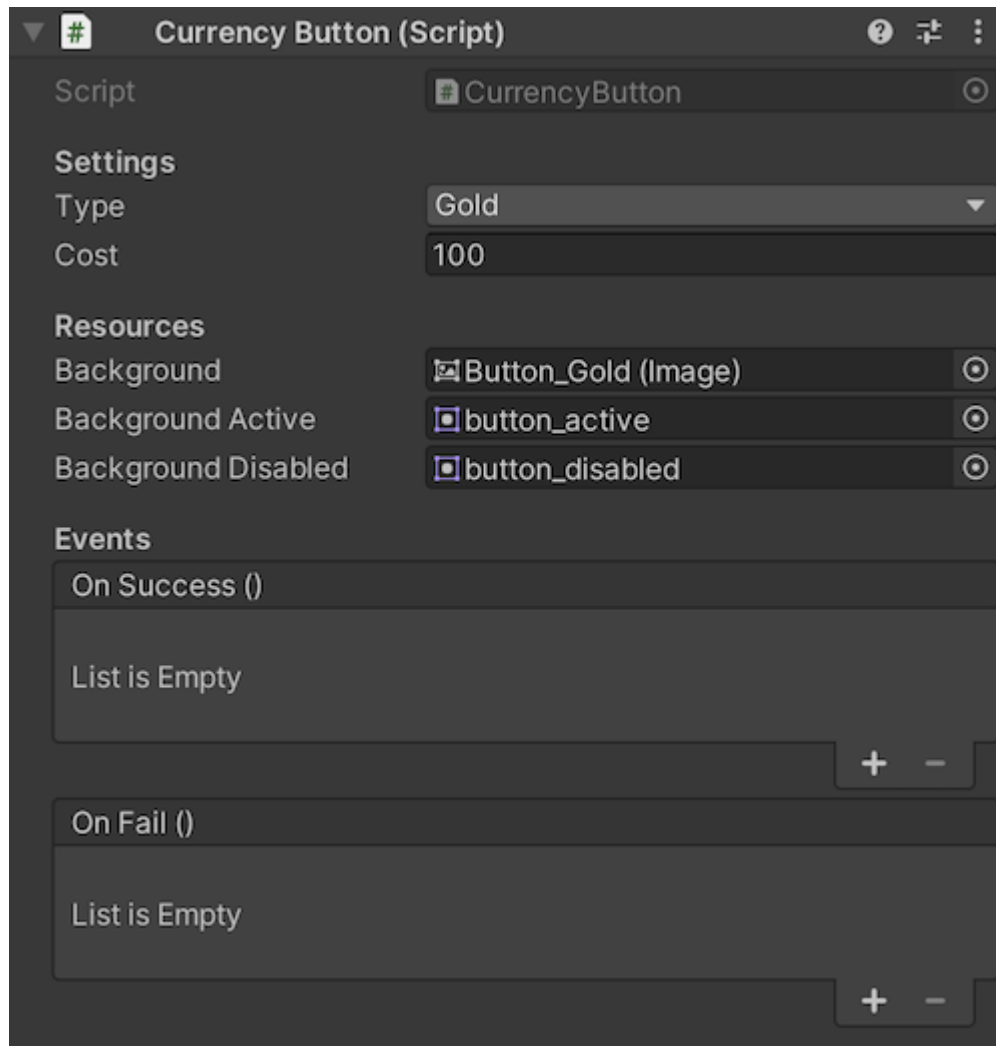
// Events
// Triggered on any currency amount change
CurrencyManager.OnAmountChanged += (type, currentAmount, changeAmount) =>
{
    // Do something
};

// Triggered on any currency capacity change
CurrencyManager.OnCapacityChanged += (type, capacity) => {
    // Do something
}
```

```
};  
// Don't forget to unsubscribe
```

Components

1. Currency Button



Its state is changed automatically on currency amounts change.

Settings:

- **Type** -> type of currency
- **Cost** -> cost of transaction

Resources:

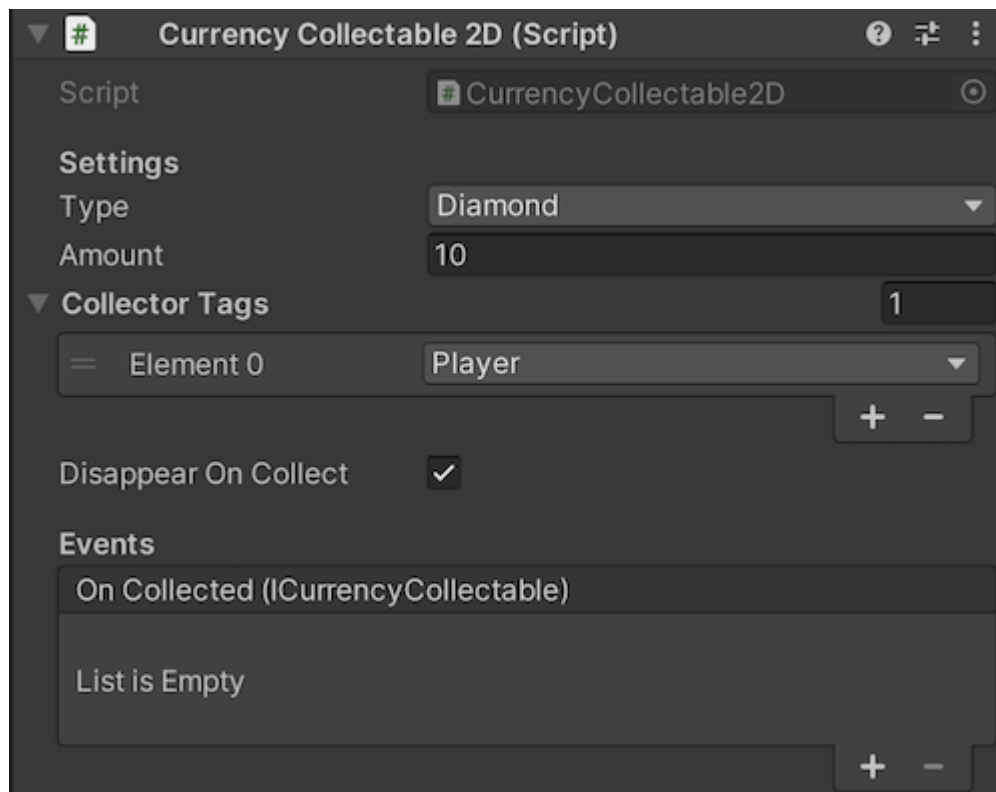
- **Background** -> the reference of background of the button
- **Background Active** -> sprite to set on active state
- **Background Disabled** -> sprite to set on disabled state

Events:

- **OnSuccess** -> Triggered on transaction succeeded

- **OnFail** -> Triggered on transaction failed

2. Currency Collectable



3D version is identical to 2D. The only difference is the collider type it needs.

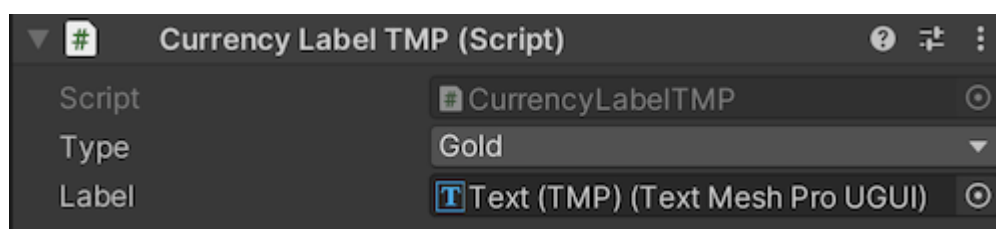
Settings:

- **Type** -> type of currency
- **Amount** -> amount to add on collected
- **Collector Tags** -> allowed tags to collect
- **Disappear On Collect** -> disables game object on collect

Events:

- **On Collected** -> Triggered on collected

3. Currency Label



There are two ready implementation for;

- Unity Text -> **CurrencyLabelText**
- TextMeshPro -> **CurrencyLabelTMP**

New ones can be implemented via **ICurrencyLabel**.

Settings:

- **Type** -> type of currency
 - **Label** -> label to show amount
-

Implementing Custom Repository

You just need to implement this simple interface and change [Repository Class](#) to it at the settings.

```
namespace G0
{
    public interface IRepository
    {
        void Set(string type, int value);
        int Get(string type, int defaultValue);
        void Clear(string type);
    }
}
```