LoadingScreenSystem

Introduction

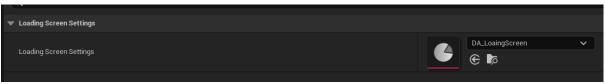
LoadingScreenSystem is a plug-in that handles the display and hiding of the loading interface when switching levels. It can be seamlessly added to the project, the loading interface at the start of the game can be customized, and the loading interface can be customized for different maps.

use

- 1. Turn on the LoadingScreenSystem plug-in
- Add BP_LoadingScreenSubsystem to Asset Manager
 - a. In Project Settings->Asset Manager, click Add Primary Asset Types to Scan
 - b. Fill in the following information, as shown below:
 - Primary Asset Type: BP_LoadingScreenSubsystem
 - ii. Asset Base Type: BP_LoadingScreenSubsystem
 - iii. Has Blueprint Classes: True
 - iv. Directories:/LoadingScreenSystem/Blueprints



- 3. Create a Data Asset based on LoadingScreenSettings and put it in the LoadingScreenSettings of
 - BP_LoadingScreenSubsystem, as shown in the figure:



4. Set custom data in this Data Asset

extra information

- 1. LoadingScreenShown: Dynamic multicast delegate, broadcast when LoadingScreen is displayed
- 2. LoadingScreenHidden: dynamic multicast delegate, broadcast when LoadingScreen is hidden

Multiplayer screen synchronization is turned off (under testing)

- 1. Only valid for ServerTravel
- 2. Under testing, may be unstable
- 3. Steps for usage
 - a. Add a reference to the module LoadingScreenSystem in the project's .builds.cs.
 - PrivateDependencyModuleNames.AddRange(new string[] { "LoadingScreenSystem" });
 - b. For PlayerController and GameState in the two converted Levels
 - c. Add the following code to PlayerController

```
i. // UFUNCTION(Server, Reliable, Category =
    "LoadingScreen")
ii. // void Server_LocalPlayerLoadingComplete();

    // void
    Server_LocalPlayerLoadingComplete_Implementation()
iii. // {
iv. // if(AGameStateBase* GameState =
    GetWorld() ->GetGameState())

v. // {
vi. // UFunction* Func =
    GameState->FindFunction(FName("Multi_OneDeviceLoadingComplete"));

vii. // if(!Func)
viii. // {
    ix. // UE_LOG(
    x. // LogTemp,
```

```
Xi. // Warning,
Xii. // TEXT("Function not found.")
Xiii. // );
Xiv. // return;
Xv. // }
Xvi. // struct FDynamicInterfaceParams{};
Xvii. // FDynamicInterfaceParams Params = {};
Xviii. //
Xix. // GameState->ProcessEvent(Func, &Params);
XX. // }
XXi. // }
```

d. Add the following code to Gamestate

```
i.
  ii.
 iii.
 İ۷.
  ٧.
 VI.
νii.
viii.
 ix.
         rentPlayerNums);
  X.
 Χİ.
xii.
xiii.
XiV.
XV.
```

e. Call GameState's

Multi_EnableWaitHidingLoadingScreen before executing ServerTravel