Feldfeste Studios

Castle Age API Design Document

Dr Zachary Parker Version Number: 0.2

Notes

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Scope of Use

Content and code may be used in castle age the game, and in tutorials by Zachary, as long as those tutorials do not reveal privilege game information (e.g., how certain assets are made, the full scope of the AI, unique game mechanics). This limit does not include game mechanics common to the genre.

Naming Conventions & Issues In Documentation

Sometimes the use of language and terms are no consistent in the <u>notes</u> section. For example, this document will often refer to "GameState" or "the game state" and in neither case is this the generic GameState/GameStateBase; this is a reference to RTSGameState. Likewise, some variables (e.g., DayOfTheWeek) are sometimes referenced spelled the same and sometimes they are broken into individual words (e.g., Day Of The Week). **Again this only occurs in the <u>notes</u> column, all listings are correct in the name and type columns.** I will be working to update this as I go.

API in progress

Please note that this API is being written at the same time as development work continues. This means that some classes may be missing or have incorrect information (e.g., list functions that are going to be deprecated and used as place holders). Any version of this document prior to version 1.0 (see cover page) should be considered an API in progress. If you are using this after version 1.0 make sure that the version of code you are using matches the API you are using.

Organization of API

This API is organized by the folder structures of the project. The folder structure is alphabetical. The classes are then listened alphabetically. The top left of the page will tell you which section you are in (like here it says '*Notes*').

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Version History

Version Number	Last Updated
0.1	4 December 2021
0.2	4 December 2021

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Building Master Base

References

Header	
Source	

Remarks

Lorem Ipsum

Variables

	Type	Name	Description
-	-	-	-

Constructors

	Name	Description
Public	ABuildingMasterBase ()	Sets the default values

	Return	Name	Description
-	-	-	-

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SunRotationBase

References

Header	
Source	

Remarks

Lorem Ipsum

Variables

	Type	Name	Description
-	-	-	-

Constructors

	Name	Description
Public	ABuildingMasterBase ()	Sets the default values

	Return	Name	Description
-	-	-	-

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Custom Movement Component

References

Header	Core/Components/CameraMovementComponent.h
Source	Private/Core/Components/CameraMovementComponent.cpp

Remarks

This class is the camera pawn's custom movement component. It implements the movement controls used by the player. While the methods for movement and zoom are here, they called in the CameraPawn.

Variables

	Type	Name	Description
Private	Bool	bDisableCameraMovement	Disables camera movement
Private	Bool	bDisableEdgeScoll	Disables edge scrolling – used when the player is rotating the camera
Private	Float	CornerEdgeScrollSpeed	Do not modify value. This is calculated for when edge scrolling is happening in two areas (e.g., top and left) so that the speed does not double
Private	Float	DefaultMovementSpeed	The base speed at which the camera pawn will move
Private	Float	DeltaTime	Delta time (do not modify)
Private	Float	DeltaZoomAmount	How much the camera will move in or out on the curve
Private	Float	MovementSpeedModifier	A multiplier used to speed the camera movements up - Defaults to 1, when used sets to 2.
Public	APlayerController*	PlayerControllerRef	A reference to the player controller
Private	Float	ZoomAmount	How far zoomed in or out the camera is.

Constructors

	Name	Description
Public	UCameraMovementComponent()	Sets the default values

	Return	Name	Description
Public	Void	BasicMovementControl(float	Moves the camera on the X
Public	Void	AxisValueX, float AxisValueY)	and Y planes.
			The override of AActor
Protected	Void	BeginPlay()	begin play, gets and sets the
			PlayerControllerRef

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Public	Void	CameraReset()	Returns the camera to the default rotation (pan) and zoom
Public	Void	EdgeScroll()	Moves the camera if the mouse is on the edges of the screen
Public	FVector	GetCameraLocation()	Returns the location of the camera pawn
Public	FRotator	GetCameraRotation()	Returns the camera pawn's rotation
Public	Float	GetCurrentMovementSpeed()	Returns current value for DefaultMovementSpeed
Public	FVector	GetFaceDirection()	Returns which direction the camera pawn is facing
Public	Float	GetSpeedModifier()	Returns current value for MovementSpeedModifier
Public	Bool	IsCameraDisabled()	Returns if the camera is currently able to move or not (bDisableCameraMovement)
Public	Bool	IsEdgeScrollDisabled()	Returns if the camera can edge scroll (bDisableEdgeScoll)
Public	Void	PanCamera(float RotationAmount)	Rotates the camera
Public	Void	ResetPan()	Returns the camera to default rotation
Public	Void	ResetZoom()	Returns the camera to the default zoom amount
Public	Bool	SetCameraDiabled(bool bDisableCamera)	(Dis)enable camera movement
Public	Bool	SetDisableEdgeScroll (bool bDisableScroll)	(Dis)enable edger scroll
Public	Float	SetMovementSpeed(float MovementSpeedAdjustment)	Set DefaultMovementSpeed to the MovementSpeedAdjustment amount
Public	Float	SetMovementSpeedModifier(float ModifierAmount)	Set Speed Modifier (MovementSpeedModifier) via player controller (passes in value of 1 or 2)
Public	void	Tick(float DeltaTime, ELevelTick TickType, FActorComponentTickFunction* ThisTickFunction)	Override of the tick function. Sets DeltaTime, checks zoom, and calls zoom related events
Public	Void	ZoomIn()	Zooms the camera in (shorten spring arm, rotate camera, and decrease FoV)
Public	Void	ZoomOut()	Zooms the camera out (lengthens spring arm, rotate camera, and increase FoV)

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Enums 12

Enums

Remarks

All Enums stored in the Enums folder are meant to be globally used enums.

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BuildingEnum

ENUMS related to buildings

References

//· 1 1	"Como/Enyma /Dyildin aEnyma h"
#include	"Core/Enums/BuildingEnums.h"
minerace	

EBuildingType

C++ value	Display name	
Communal	Communal	
Infrastructure	Infrastructure	
Agricultural	Agricultural	
Artisanry	Artisanry	
Wooden	Wooden	
Stone	Stone	
Warfare	Warfare	

EBuildingName

C++ value	Display name
-	-

ResourcesEnum

ENUMS for all resources

References

#include	"Core/Enums/ResourcesEnum.h"	

EProducedResources

C++ value	Display name
-	-

EFoodResources

C++ value	Display name
-	-

EVisualResources

C++ value	Display name
-	-

CameraPawnInterface

References

#include	
----------	--

Remarks

Lorem Ipsum

	Return	Name	Description
-	-	-	-

GameStateInterface

References

#include	
----------	--

Remarks

Lorem Ipsum

	Return	Name	Description
-	-	-	-

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GameTimeInterface

References

#include	
----------	--

Remarks

Lorem Ipsum

	Return	Name	Description
-	-	-	-

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CamweraPawn

References

Header	Core/Player/CameraPawn.h
Source	Private/Core/Player/CameraPawn.cpp

Remarks

This class is the actor that houses the camera itself, and does the collision checks for the camera. This case is fully implemented in blueprint (BP_)!

Variables

	Туре	Name	Description
Public	UCameraMovementComponent*	PawnMovementComponent	References to the CameraMovementComponent associated with this camera pawn.
Protected	USphereComponent*	CollisionSphere	Root component of this actor, used to test for collision with boundaries of the map
Protected	UCameraComponent*	PlayerCamera	The actual camera, attached to CameraBoom
Protected	USpringArmComponent*	CameraBoom	A spring arm
Protected	Float	DefaultZoomDistance	Default length of CameraBoom, used to determine the default zoom distance
Protected	FRotator	DefaultCamerRotation	Default rotation of CameraBoom
Protected	Float	DefaultFieldOfView	Default FoV (should be 90)
Protected	UCurveFloat*	CurveZoomArmLength	The curve graph used to adjust CameraBoom when zooming in and out (loaded in from a UASSET)
Protected	UCurveFloat*	CurveZoomRotation	The curve graph used to adjust how much this actor rotates the camera towards or away from the ground when zooming in and out (loaded in from a UASSET)
Protected	UCurveFloat*	CurveZoomFOV	The curve graph used for adjusting how much the FoV lowers when zooming in or increase when zooming out (loaded in from a UASSET)

Constructors

	Name	Description
Public	ACameraPawn()	Sets the default values, including root component and camera set

Player 19

up. Also loads in the curves being used

Functions

	Return	Name	Description
Public	UCameraComponent*	GetCamera()	Returns the camera
1 uone	OCamera Component	GetCamera()	component
Protected	Void	BeginPlay()	Nothing special just a blank
			override
Public	Void	Tick(float DeltaTime)	Runs AdjustCameraHeight
Public	USpringArmComponent*	GetCamerBoom()	Returns the spring arm
Public	USpringArmComponent*	GetCamerBoom()	component
Public	Float	GetCurrentArmLength()	Returns the length of the
Public	Float	GetCurrentArmLengtn()	spring arm
Public	FRotator	GetCurrentRotation()	Returns current rotation of
1 uone			spring arm
Public	Float	GetCurrentFieldOfView()	Returns current FoV value
Public	Void	SetArmLnength(float	For zoom events, sets the
		InZoomAmount)	spring arm length
Public	Void	SetArmRotation(float	For zoom events, sets the
1 uone	Void	InZoomAmount);	rotation of the spring arm
Public	Void	SetFieldOfView(float	For zoom events, sets the
1 uone		InZoomAmount)	camera's FoV
			Moves the entire actor up or
		AdjustCameraHeight()	down based on the landscape
Public	Void		– this is how the actor
			responds to changes in the
			terrain.

Interface Related Functions

Remember these functions are defined with '_Implementation' and called with 'Execute_'

	Return	Name	Description
Public	Void	CallSetArmlength(float Value)	Interface event that calls SetArmLength (used for communication between pawn, custom movement component, and player controller)
Public	Void	CallSetArmRotation(float Value)	Interface event that calls SetArmRotation (used for communication between pawn, custom movement component, and player controller)
Public	Void	CallSetFieldOfView(float Value)	Interface event that calls SetFieldOfView (used for communication between pawn, custom movement component, and player controller)

RTSP layer Controller

References

Header	Core/Player/RTSPlayerControllerBase.h
Source	Private/Core/Player/RTSPlayerControllerBase.cpp

Remarks

This class is the player controller. It controls the movements of the pawn. It stores player data and has components associated with buildings, units, and resources.

Variables

	Type	Name	Description
Protected	ACameraPawn*	CameraPawnRef	A pointer to the camera pawn
Protected	UCameraMovementComponent*	CameraMovementRef	A pointer to the camera pawn's movement component
Private	FTimerHandle	DelayStart	A timer handle for addressing issues of loading into the map during replication
Public	UMainUIBase*	MainUI	A reference to the main UMG widget displayed during runtime of the game

Constructors

	Name	Description
Destation	ARTSPlayerControllerBase()	Default constructor. Only enables tick
rublic	AKT SPlayer Collubrate ()	and pause related events.

	Return	Name	Description
Protected	Void	BeginPlay()	Shows mouse cursor and currently sets timer for delayed start.
Public	Void	Tick(float DeltaTime)	Runs edge scroll events
Public	Void	SetupInputComponent()	Bind functionality to input (do not edit unless adding in new user inputs)
Public	Void	DelayedBeginPlay()	Gets the user's camera pawn (CameraPawnRef) and sends a reference to self to the server (stored in GameState). Clears and invalidates timer hammer
Public	Void	SendIdentityToServer(APlayerController* SelfRef)	NOT USED (need to delete?)
Public	Void	CallMoveFoward(float Value)	What happens when W/S is pressed. This method has no

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			actual affect it inst calls up 41-
			actual effect, it just calls up the relevant method in the Camera
			Movement Component.
			What happens when A/D is
			pressed. This method has no
Public	Void	CallMayaPight(float Value)	actual effect, it just calls up the
rublic	Void	CallMoveRight(float Value)	relevant method in the Camera
			Movement Component.
			What happens when shift is
			pressed, increasing movement
			speed modifier to 2. This
Public	Void	CallIncraseSpeedModifier()	method has no actual effect, it
1 done	Void	Cammerasespeedivioumer()	just calls up the relevant
			method in the Camera
			Movement Component.
			What happens when shift is
			released, increasing movement
			speed modifier to 1. This
Public	Void	CallDecreaseSpeedModifier()	method has no actual effect, it
	, 514	cumb coreus es pecuriro uniter()	just calls up the relevant
			method in the Camera
			Movement Component.
			What happens when the mouse
			wheel up is triggered (zoom
5 11:		- 11 - 1 0	in). This method has no actual
Public	Void	CallZoomIn()	effect, it just calls up the
			relevant method in the Camera
			Movement Component.
			What happens when the mouse
			wheel down is triggered (zoom
D 11'	37 1	C 117 O 40	out). This method has no
Public	Void	CallZoomOut()	actual effect, it just calls up the
			relevant method in the Camera
			Movement Component.
			What happens when the input
			for zoom reset is triggered.
			The zoom returns to default.
Public	Void	CallZoomReset()	This method has no actual
		-	effect, it just calls up the
			relevant method in the Camera
			Movement Component.
			What happens when the input
			for pan reset is triggered. The
			rotation returns to default. This
Public	Void	CallPanReset()	method has no actual effect, it
			just calls up the relevant
			method in the Camera
			Movement Component.
Public	Void	CallCameraReset()	Returns zoom/pan both to
1 dolle	VOIU	Cancameraixescuj	default. This method has no

			actual effect, it just calls up the relevant method in the Camera Movement Component.
Public	Void	RoC_PassDateTimeStruct(FDateTime TimeStruct)	Replicated on Client event that passes the DateTime structure to the UMG. Triggered GameState using by Interface event (SetGameDateTime). Triggers same event in MainUI.
Public	Void	RoC_PassDayOfWeek(int GameDay)	Replicated on Client event that passes the Day of the Week to the UMG. Triggered GameState using by Interface event (SetGameDay). Triggers same event in MainUI.
Public	Void	RoC_PassGameSpeed(float GameSpeed)	Replicated on Client event that passes Game Speed to the UMG. Triggered GameState using by Interface event (UpdateGameSpeed). Triggers same event in MainUI.
Public	Void	RoS_SetGameSpeed(float GameSpeed)	Replicated on Server event that passes (and then sets) the GameSpeed from the UMG to the GameState. Triggered by UMG using interface event (UpdateGameSpeed). Triggers the same event in GameState.

Interface Related Functions

Remember these functions are defined with '_Implementation' and called with 'Execute_'

	remember these fairness are defined with _implementation and cancel with _Execute_		
	Return	Name	Description
Public	Bool	SetGameDateTime(FDateTime TimeStruct)	Used as an intermediate communication point between game state and UMG for passing the DateTime Structure to UMG. Triggers ROC_passDateTimeStruct.
Public	Bool	SetGameDay(int GameDay)	Used as an intermediate communication point between game state and UMG for passing the Day of the Week to UMG. Triggers RoC_PassDayOfWeek.
Public	Void	UpdateGameSpeed(float SpeedMultiplier)	Used as an intermediate communication point between game state and UMG for passing/Setting the GameSpeed in GameState. Triggers RoS SetGameSpeed.
Public	Bool	SetGameSpeedInt(float GameSpeed)	Used as an intermediate communication point between game state and UMG for

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		passing GameSpeed to UMG. Triggers
		RoC_PassGameSpeed.

RTSGameInstance

References

Header	Core/Settings/RTSGameInstance.h
Source	Private/Core/Settings/ RTSGameInstance.cpp

Remarks

This class is used to store all the controls for hosting, joining, leaving, etc. a session. Implementation of the Online Subsystems will occur here. **NOTE: At the time of starting this document (4 December 2021) this class is not completed. This likely will the LAST class completed.** Proposed cycle for this class: Update to the NULL online subsystem during dev cycle. Make all primary gameplay tests over VPN style devices (e.g., Hamachi). Once final changes are made, then this will be updated to the Steam system.

Variables

	Type	Name	Description

Constructors

	Name	Description
Public	URTSGameInstance(const	Sets the default values
	FObjectInitializer& ObjectInitializer)	

	Return	Name	Description
Public	Void	Init()	Currently empty
Public	Void	Host	Currently allows a player to host the game and server travel to the map. Currently a CVAR (may leave as CVAR)
Public	Void	Toid Join(const FString& Address)	Currently Takes an IP address to allow for players to join a listen server. Uses client travel to the map. Currently a CVAR (may leave as CVAR)

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RTSGameState

References

Header	Core/Settings/RTSGameState.h
Source	Private/Core/Settings/RTSGameState.cpp

Remarks

This class is the persistent class used to control the main game environment. This class contains the information above the host, active players, game time.

Game Speed Breakdown

The table below should be used to determine what game speed is most desired. The examples given below are just to help understand the ratios for real time elapsed to time in game. For example, if you want 1 real world second to be 1 hour in game, then the GameSpeed should be 1. If you want 1 real hour to be 24 hours in game, then GameSpeed Should be 150.

Real time elapsed	:	GameSpeed	=	Time in Game
1 second	:	1	=	1 game hour
1 second	:	60	=	1 game minute
1 second	:	3600	=	1 game second (real time)
1 minute	:	2.5	=	1 game day
1 hour	:	150	=	1 game day

Variables

	Type	Name	Description
			Stores pointers to the active player controller in the session.
Protected	TArray <artsplayercontrollerbase*></artsplayercontrollerbase*>	PlayerRefs	NOTE TO SELF: why note go up one
			level in the
			inheritance
			hierarchy? You are
			using interfaces after all
Protected	ARTSPlayerControllerBase *	HostPlayerControllerRef	A pointer to the host's player controller
Protected	AActor*	SunActorRef	A reference to the directional light used for the day/night cycle.
Protected	Int	Years	The year of the game (default 1100)
Protected	Int	Months	Game Month (default 10/October)

Protected	Int	Days	Day of the Month
Protected	Int	DayOfWeek	(default 21st) A numeric representation of what day of the week it is (range 1 to 7, where 1 = Sunday and 7 = Saturday)
Protected	Int	DayCounter	An int set to either 0 or 1. At 1, this variable triggers an update to Days and DayOfWeek. (potentially month and year as well, if changing months or year)
Protected	Int	Hours	Current hour in the game world (default is 13). This runs on 24hour clock.
Protected	Int	Minutes	Current minute in the game world (default 30).
Protected	Int	Seconds	Current Second in the game world (default 12).
Protected	Float	GameSpeed	How fast the game time moves. Default is 60. Break down is provided in remarks.
Protected	Float	DefaultGameSpeed	Should always be equal to GameSpeed (used for resetting Gamespeed)
Protected	FDateTime	DateTimeStruct	The structure that sores the game's Date and Time data
Private	FTimerHandle	BeginPlayTimerHandle	A timer handled used for a delay. NOTE: This likely will be deprecated.

Constructors

	Name	Description
Public	ARTSGameState ()	Default constructor. Sets up the
		GameTime, DateTimeStruct, and
		confirms actors should tick.

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Function	Return	Name	Description
	Itetarii	Tune	Server gets actor that controls
Protected	Void	BeginPlay()	day/night cycle and triggers timer (likely to be replaced) to collect player data.
Protected	Void	Tick(float DeltaTime)	Server runs the game clock and passes the game speed to the UMG (through the player controller).
Protected	Void	RoS_DelayedCollectPlayerData()	Server collects information on all of the player controllers and determines who the host is. Once done it kills the timer. Note: This likely will be deprecated and the functions moved elsewhere.
Protected	Void	RoS_SetAllPlayerControllerRefs()	Server calls this during DelayedCollectPlayerData (again likely to be replaced). It gets all the player controllers and stores the data.
Protected	Void	RoS_CalculateTime(float DeltaTime, float CurrentGameSpeed, float GameTimeIn)	Server updates GameTime based on the tick (DeltaTime) and CurrentGameSpeed. This is the calculation that controls the length of the day (default 24 hours). Also checks if GameTime has done a 24 hour cycle (if it is has DayCounter goes from 0 to 1).
Protected	Void	RoS_SetClockCalendar()	Takes Gametime and converts this float value into seconds, minutes, and hours. If Day Counter is 1, then Day of Week and Days will increment. If either go over their max values (7 and DaysInMonth(), respectively) they are reset to 1. Likewise month and year are updated.
Protected	Void	RoS_SetDateTime(const int& Year, const int& Month, const int& Day, const int& Hour, const int& Minute, const int& Second)	The server event that stores the DateTimeStruct (called by RoS_SetClockCalendar()).
Protected	Void	RoS_PassDateTimeStruct()	Replicated on Server event that passes the DateTime structure to the UMG. Called on the tick. This data is passed to the Player Controller, which using

			the same interface function
			passes the information to the
			UMG.
			Replicated on Server event that
			passes the day of the week
			value to the UMG. Called on
Protected	Void	RoS PassDayOfWeek()	the tick. This data is passed to
Trotected	Void	KOS_I assDayOI WCCK()	the Player Controller, which
			using the same interface
			function passes the information
			to the UMG.
			Replicated on Server event sets
			the GameSpeed. Uses the
Protected	Void	RoS_SetGameSpeed(const float&	DefaultGameSpeed value as a
Trotected	Void	SpeedMultiplier)	constant base. It takes this
			value and multiplies it by a
			value set in the UMG.
			Replicated on Server event that
			passes the GameSpeedValue to
Protected	Void	RoS_PassGameSpeed()	those actors (e.g., MainUI
			UMG) that need the value.
			Called on the tick.
			The function that actually
Protected	Void	Pos GatsunPotation Actor()	stores the Day/Night cycle
1 Totected	Void	RoS_GetSunRotationActor()	actor. Server locates the actor
			and stores it.
Public	Float	GetGameTime()	Returns GameTime

Interface Related Functions

Remember these functions are defined with '_Implementation' and called with 'Execute_'

	Return	Name	Description
Public	Void	UpdateGameSpeed(float SpeedMultiplier)	The interface function that allows players to change the gamespeed. This function is triggered (typically) by the player via the UMG, to the controller, then finally here to GameState. This passes the data from the user to the server and calls RoS_SetGameSpeed (logging optional to see if it is was server/host, or player)
Public	Bool	AddPlayerController(APlayerController* PlayerControllerRef)	A backup method for a player to be added to the list of PlayerControllers (may be useful for resolving disconnects and reconnects). Currently I do not believe this is used. Corresponding event (that triggers this interface) is in the RTSPlayerControllerBase.

UnitMasterBase

References

Header	
Source	

Remarks

Lorem Ipsum

Variables

	Type	Name	Description
-	-	-	-

Constructors

	Name	Description
Public	ABuildingMasterBase ()	Sets the default values

	Return	Name	Description
-	-	-	-

Game Clock Widget

References

Header	
Source	

Remarks

Lorem Ipsum

Variables

	Type	Name	Description	
-	-	-	-	

Constructors

	Name	Description
Public	ABuildingMasterBase ()	Sets the default values

Functions

	Return	Name	Description
-	-	-	-

Interface Related Functions

Remember these functions are defined with '_Implementation' and called with 'Execute_'

	Return	Name	Description
-	-	-	-

MainUIBase

References

Header	
Source	

Remarks

Lorem Ipsum

Variables

	Type	Name	Description
-	-	-	-

Constructors

	Name	
Public	ABuildingMasterBase ()	Sets the default values

Functions

	Return	Name	Description
1	-	-	-

Interface Related Functions

Remember these functions are defined with '_Implementation' and called with 'Execute_'

	Return	Name	Description
-	-	-	-