Code Documentation – Team Olive

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Here are the packages with brief descriptions (if available):

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2.1 Class Hierarchy

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Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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This class controls the breakable objects such as the chests	11
brokenPieces	
This class controls the broken pieces released by the breakable object	12
CameraController	
This class controls the camera	14
CharacterSelectManager	
Class to control the selection process of the game	15
CharacterSelector	
This class controls the character selection process in the game	16
DamagePlayer	
This class manages the player's health	17
EnemyBullet	
This class controls the bullets fired by the enemies	17
EnemyController	
This class controls the enemies	18
enemySleepAnimation	
This class controls the sleep animation of enemies when their health drops to zero	23
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Controller class for the essay page collectibles	25
essayPages	
Class controls the collection of essay pages	26
Gun	07
This class controls the guns used by the player	21
This class controls the chests where players can get new weapons	20
GunPickup	20
This class enables the player pickup guns	30
healthPickup	
Class controls health pickups to restore player health	31
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This class selects the next level to load	32
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This class generated levels randomly	32
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This class manages each level	36

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This class decides the scene to load after cutscenes	39
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This class creates and controls the main menu	40
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Class to control pause menu scene	41
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This class controls bullets fired by the player	44
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This class controls the player	45
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Class controls the health of the player and updates UI	47
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Room	
Class that controls the operation of rooms	49
RoomCentre	
This class controls the room centres	51
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spriteSortOrder	
This class controls the ordering of the sprites	54
Tutorial	
Class to control tutorial scene	54
UlController	
This class is tasked with managing the User Interface	55

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4.1 File List

Here is a list of all files with brief descriptions:

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Namespace Documentation

5.1 Roguelike_Dungeon Namespace Reference

Classes

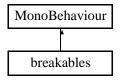
•classProgram

Class Documentation

6.1 breakables Class Reference

this class controls the breakable objects such as the chests.

Inheritance diagram for breakables:



Public Attributes

- GameObject[]brokenPieces
 - list of broken pieces
- •intmaxPieces= 5
- ${\bf \cdot} bool should Drop Item$

list of pickups to drop

- GameObject[]itemsToDrop
- floatitemDropPercent

6.1.1 Detailed Description

this class controls the breakable objects such as the chests.

it will break the object and release broken pieces and pickups when triggered by the player

6.1.2 Member Data Documentation

6.1.2.1 brokenPieces

```
GameObject [] breakables.brokenPieces
```

list of broken pieces

6.1.2.2 itemDropPercent

float breakables.itemDropPercent

6.1.2.3 itemsToDrop

```
GameObject [] breakables.itemsToDrop
```

6.1.2.4 maxPieces

```
int breakables.maxPieces = 5
```

6.1.2.5 shouldDropItem

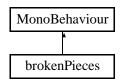
bool breakables.shouldDropItem

list of pickups to drop

6.2 brokenPieces Class Reference

this class controls the broken pieces released by the breakable object.

Inheritance diagram for brokenPieces:



Public Attributes

- •floatmoveSpeed= 3f
- •floatdeceleration=5f
- •floatlifetime= 3f
- SpriteRenderertheSR
- •floatfadeSpeed= 2.5f

6.2.1 Detailed Description

this class controls the broken pieces released by the breakable object.

6.2.2 Member Data Documentation

6.2.2.1 deceleration

float brokenPieces.deceleration = 5f

6.2.2.2 fadeSpeed

float brokenPieces.fadeSpeed = 2.5f

6.2.2.3 lifetime

float brokenPieces.lifetime = 3f

6.2.2.4 moveSpeed

float brokenPieces.moveSpeed = 3f

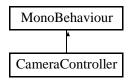
6.2.2.5 theSR

SpriteRenderer brokenPieces.theSR

6.3 CameraController Class Reference

This class controls the camera.

Inheritance diagram for Camera Controller:



Public Member Functions

voidChangeTarget(Transform newTarget)

Public Attributes

floatmoveSpeed

Measures the speed of the player to assess how quickly to move the camera.

Transformtarget

Static Public Attributes

staticCameraControllerinstance

6.3.1 Detailed Description

This class controls the camera.

6.3.2 Member Function Documentation

6.3.2.1 ChangeTarget()

6.3.3 Member Data Documentation

6.3.3.1 instance

CameraControllerCameraController.instance [static]

6.3.3.2 moveSpeed

 ${\tt float \ CameraController.moveSpeed}$

Measures the speed of the player to assess how quickly to move the camera.

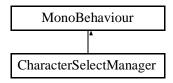
6.3.3.3 target

Transform CameraController.target

6.4 CharacterSelectManager Class Reference

Class to control the selection process of the game.

Inheritance diagram for CharacterSelectManager:



Public Attributes

- playerControlleractivePlayer
- •CharacterSelectoractiveCharSelect

Static Public Attributes

staticCharacterSelectManagerinstance

6.4.1 Detailed Description

Class to control the selection process of the game.

6.4.2 Member Data Documentation

6.4.2.1 activeCharSelect

 ${\tt Character Select Manager.active Char Select}$

6.4.2.2 activePlayer

playerControllerCharacterSelectManager.activePlayer

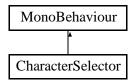
6.4.2.3 instance

CharacterSelectManagerCharacterSelectManager.instance [static]

6.5 CharacterSelector Class Reference

This class controls the character selection process in the game.

Inheritance diagram for CharacterSelector:



Public Attributes

- GameObjectmessage
- playerControllerplayerToSpawn

The character to be used in the game.

6.5.1 Detailed Description

This class controls the character selection process in the game.

6.5.2 Member Data Documentation

6.5.2.1 message

GameObject CharacterSelector.message

6.5.2.2 playerToSpawn

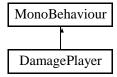
playerControllerCharacterSelector.playerToSpawn

The character to be used in the game.

6.6 DamagePlayer Class Reference

This class manages the player's health.

Inheritance diagram for DamagePlayer:



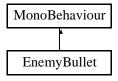
6.6.1 Detailed Description

This class manages the player's health.

6.7 EnemyBullet Class Reference

This class controls the bullets fired by the enemies.

Inheritance diagram for EnemyBullet:



Public Attributes

floatspeed

enables the user to change the speed of the bullet in Unity

6.7.1 Detailed Description

This class controls the bullets fired by the enemies.

6.7.2 Member Data Documentation

6.7.2.1 speed

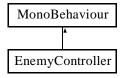
float EnemyBullet.speed

enables the user to change the speed of the bullet in Unity

6.8 EnemyController Class Reference

This class controls the enemies.

Inheritance diagram for EnemyController:



Public Member Functions

voidDamageEnemy(int damage)

Public Attributes

- Rigidbody2DtheRB
- floatmoveSpeed
- boolshouldChasePlayer
- floatrangeToChasePlayer
- boolshouldChaseBot
- ${\bf \cdot float range To Chase Bot}$

variables for chase bot enemy

- boolshouldPatrol
- Transform[]patrolPoints
- boolshouldRunAway
- floatrunAwayRange

variables for the coward enemy

- boolshouldWander
- floatwanderLength
- floatpauseLength

how long the enemy should pause for

boolshouldShoot

whether or not the enemy should shoot the player

- GameObjectbullet
- TransformfirePoint
- floatfireRate
- floatshootRange
- SpriteRenderertheBody

allows us to change the sprite of enemies

Animatoranim

allows us to animate the enemies

•inthealth= 150

enemies default have 150 health - this can be changed in Unity

GameObject[]deathSplatters

included just in case the user wants to have death splatters to make it more violent

GameObjecthitEffect

hit effect for when the bullets hit the enemy

- boolcanMove= true
- GameObjectZzzz

the speech bubble to show that the enemy is sleeping and hence inactive

Static Public Attributes

staticEnemyControllerinstance

6.8.1 Detailed Description

This class controls the enemies.

6.8.2 Member Function Documentation

6.8.2.1 DamageEnemy()

when the enemy is hit by a piece of fruit, trigger the enemy's hit effect

when the enemy's health goes below zero, set its death sprite: sleeping

enemy sleeping sprite Destroy(gameObject); //don't make the enemy disappear ensure enemy can't move or shoot

disables animation

add the zzz to show that the enemy is sleeping

replaces sprite

6.8.3 Member Data Documentation

6.8.3.1 anim

Animator EnemyController.anim

allows us to animate the enemies

6.8.3.2 bullet

GameObject EnemyController.bullet

6.8.3.3 canMove

bool EnemyController.canMove = true

6.8.3.4 deathSplatters

GameObject [] EnemyController.deathSplatters

included just in case the user wants to have death splatters to make it more violent

6.8.3.5 firePoint

Transform EnemyController.firePoint

6.8.3.6 fireRate

float EnemyController.fireRate

6.8.3.7 health

```
int EnemyController.health = 150
```

enemies default have 150 health - this can be changed in Unity

6.8.3.8 hitEffect

GameObject EnemyController.hitEffect

hit effect for when the bullets hit the enemy

6.8.3.9 instance

EnemyControllerEnemyController.instance [static]

6.8.3.10 moveSpeed

 ${\tt float \ EnemyController.moveSpeed}$

6.8.3.11 patrolPoints

Transform [] EnemyController.patrolPoints

6.8.3.12 pauseLength

float EnemyController.pauseLength

how long the enemy should pause for

6.8.3.13 rangeToChaseBot

 ${\tt float \ EnemyController.rangeToChaseBot}$

variables for chase bot enemy

6.8.3.14 rangeToChasePlayer

float EnemyController.rangeToChasePlayer

6.8.3.15 runAwayRange

float EnemyController.runAwayRange

variables for the coward enemy

6.8.3.16 shootRange

float EnemyController.shootRange

6.8.3.17 shouldChaseBot

 $\verb|bool EnemyController.shouldChaseBot|\\$

6.8.3.18 shouldChasePlayer

 $\verb|bool EnemyController.shouldChasePlayer|\\$

6.8.3.19 shouldPatrol

bool EnemyController.shouldPatrol

6.8.3.20 shouldRunAway

bool EnemyController.shouldRunAway

6.9.1.1 shouldShoot

bool EnemyController.shouldShoot

whether or not the enemy should shoot the player

6.9.1.2 shouldWander

 $\verb|bool EnemyController.shouldWander|\\$

6.9.1.3 theBody

SpriteRenderer EnemyController.theBody

allows us to change the sprite of enemies

6.9.1.4 theRB

Rigidbody2D EnemyController.theRB

6.9.1.5 wanderLength

float EnemyController.wanderLength

6.9.1.6 Zzzz

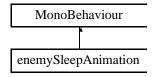
GameObject EnemyController.Zzzz

the speech bubble to show that the enemy is sleeping and hence inactive

6.9 enemySleepAnimation Class Reference

this class controls the sleep animation of enemies when their health drops to zero.

Inheritance diagram for enemySleepAnimation:



Public Member Functions

voidenemyToSleep()

replaces the enemy sprite with the sleeping sprite

Public Attributes

- SpriteRenderertheSR
- SpritesleepingEnemy

Static Public Attributes

staticenemySleepAnimationinstance

6.9.1 Detailed Description

this class controls the sleep animation of enemies when their health drops to zero.

less violent alternative to being killed

6.9.2 Member Function Documentation

6.9.2.1 enemyToSleep()

void enemySleepAnimation.enemyToSleep ()

replaces the enemy sprite with the sleeping sprite

6.9.3 Member Data Documentation

6.9.3.1 instance

enemySleepAnimationenemySleepAnimation.instance [static]

6.9.3.2 sleepingEnemy

 ${\tt Sprite \ enemySleepAnimation.sleepingEnemy}$

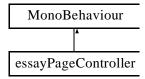
6.10.1.1 theSR

SpriteRenderer enemySleepAnimation.theSR

6.10 essayPageController Class Reference

controller class for the essay page collectibles.

Inheritance diagram for essayPageController:



Public Member Functions

voidpickupPage()

method run when player walks over essay page increments current number of pages by 1 and updates UI

Public Attributes

- intcurrentNumPages
- intmaxNumPages
- Sprite[]essayPageUI

Static Public Attributes

staticessayPageControllerinstance

6.10.1 Detailed Description

controller class for the essay page collectibles.

6.10.2 Member Function Documentation

6.10.2.1 pickupPage()

void essayPageController.pickupPage ()

method run when player walks over essay page increments current number of pages by 1 and updates UI

6.10.3 Member Data Documentation

6.10.3.1 currentNumPages

 $\verb|int-essayPageController.currentNumPages|\\$

6.10.3.2 essayPageUI

Sprite [] essayPageController.essayPageUI

6.10.3.3 instance

essayPageControlleressayPageController.instance [static]

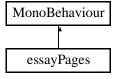
6.10.3.4 maxNumPages

 $\verb"int essayPageController.maxNumPages"$

6.11 essayPages Class Reference

class controls the collection of essay pages.

Inheritance diagram for essayPages:



Public Attributes

stringtest

Static Public Attributes

staticessayPagesinstance

6.11.1 Detailed Description

class controls the collection of essay pages.

6.11.2 Member Data Documentation

6.11.2.1 instance

```
essayPagesessayPages.instance [static]
```

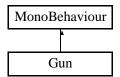
6.11.2.2 test

string essayPages.test

6.12 Gun Class Reference

This class controls the guns used by the player.

Inheritance diagram for Gun:



Public Attributes

- GameObjectbulletToFire
 - differentiates between bullets (fruit)
- TransformfirePoint

creates a fire point for the fruit to come from for each weapon

- floattimeBetweenShots
- stringweaponName
- SpritegunUI

allows for a gun UI in the bottom left of the screen

6.12.1 Detailed Description

This class controls the guns used by the player.

6.12.2 Member Data Documentation

6.12.2.1 bulletToFire

GameObject Gun.bulletToFire

differentiates between bullets (fruit)

6.12.2.2 firePoint

Transform Gun.firePoint

creates a fire point for the fruit to come from for each weapon

6.12.2.3 gunUI

Sprite Gun.gunUI

allows for a gun UI in the bottom left of the screen

6.12.2.4 timeBetweenShots

 ${\tt float \; Gun.timeBetweenShots}$

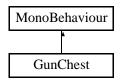
6.12.2.5 weaponName

string Gun.weaponName

6.13 GunChest Class Reference

This class controls the chests where players can get new weapons.

Inheritance diagram for GunChest:



Public Attributes

GunPickup[]potentialGuns

create a list of potential guns for the user to change within Unity

- SpriteRenderertheSR
- SpritechestOpen

allows the chest to change to an open sprite

- GameObjectnotification
- TransformspawnPoint

point at which the gun will spawn having been deployed from chest

•floatscaleSpeed= 2f

6.13.1 Detailed Description

This class controls the chests where players can get new weapons.

6.13.2 Member Data Documentation

6.13.2.1 chestOpen

Sprite GunChest.chestOpen

allows the chest to change to an open sprite

6.13.2.2 notification

GameObject GunChest.notification

6.13.2.3 potentialGuns

GunPickup[] GunChest.potentialGuns

create a list of potential guns for the user to change within Unity

6.13.2.4 scaleSpeed

float GunChest.scaleSpeed = 2f

6.13.2.5 spawnPoint

Transform GunChest.spawnPoint

point at which the gun will spawn having been deployed from chest

6.13.2.6 theSR

SpriteRenderer GunChest.theSR

6.14 GunPickup Class Reference

This class enables the player pick up guns.

Inheritance diagram for GunPickup:



Public Attributes

- •GuntheGun
- •floatwaitToBeCollected= .5f

sets a brief moment of time that the weapon can't be collected for

6.14.2 Detailed Description

This class enables the player pick up guns.

6.14.3 Member Data Documentation

6.14.3.1 theGun

GunGunPickup.theGun

6.15.1.1 waitToBeCollected

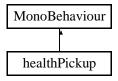
float GunPickup.waitToBeCollected = .5f

sets a brief moment of time that the weapon can't be collected for

6.15 healthPickup Class Reference

class controls health pickups to restore player health.

Inheritance diagram for healthPickup:



Public Attributes

- •inthealAmount= 1
- •floatwaitToBeCollected= .5f

6.15.1 Detailed Description

class controls health pickups to restore player health.

6.15.2 Member Data Documentation

6.15.2.1 healAmount

int healthPickup.healAmount = 1

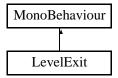
6.15.2.2 waitToBeCollected

float healthPickup.waitToBeCollected = .5f

6.16 LevelExit Class Reference

This class selects the next level to load.

Inheritance diagram for LevelExit:



Public Attributes

stringlevelToLoad

6.16.1 Detailed Description

This class selects the next level to load.

6.16.2 Member Data Documentation

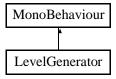
6.16.2.1 levelToLoad

string LevelExit.levelToLoad

6.17 LevelGenerator Class Reference

This class generated levels randomly.

Inheritance diagram for LevelGenerator:



Public Types

 $\bullet enum Direction \{ Direction.up, Direction.right, Direction.down, Direction.left \}$

Public Member Functions

- •voidMoveGenerationPoint()
- voidCreateRoomOutline(Vector3 roomPosition)

Public Attributes

- GameObjectlayoutRoom
- ColorstartColor
- intdistanceToEnd
- TransformgeneratorPoint
- DirectionselectedDirection
- •floatxOffset= 18f
- LayerMaskwhatIsRoom
- •List < RoomCentre > allRooms= new List <RoomCentre>()

list of all room centres used in a given level

•intnumEnemiesInLevel= 0

number of enemies in a given level

- •boolnoEnemies= false
- •intnumPagesInLevel= 0
- RoomPrefabsrooms
- RoomCentreCentreStart
- RoomCentre[]potentialCentres
- intmaxNumPagesInLevel

Static Public Attributes

staticLevelGeneratorinstance

6.17.1 Detailed Description

This class generated levels randomly.

6.17.2 Member Enumeration Documentation

6.17.2.1 Direction

enumLevelGenerator.Direction[strong]

Enumerator

up	
right	
down	
left	

6.17.3 Member Function Documentation

6.17.3.1 CreateRoomOutline()

```
\begin{tabular}{ll} \beg
```

6.17.3.2 MoveGenerationPoint()

```
void LevelGenerator.MoveGenerationPoint ( )
```

6.17.4 Member Data Documentation

6.17.4.1 allRooms

List<RoomCentre>LevelGenerator.allRooms = new List<RoomCentre>()

list of all room centres used in a given level

6.17.4.2 centreStart

RoomCentreLevelGenerator.centreStart

6.17.4.3 distanceToEnd

int LevelGenerator.distanceToEnd

6.17.4.4 generatorPoint

Transform LevelGenerator.generatorPoint

6.17.4.5 instance

LevelGeneratorLevelGenerator.instance [static]

6.17.4.6 layoutRoom

GameObject LevelGenerator.layoutRoom

6.17.4.7 maxNumPagesInLevel

int LevelGenerator.maxNumPagesInLevel

6.17.4.8 noEnemies

bool LevelGenerator.noEnemies = false

6.17.4.9 numEnemiesInLevel

int LevelGenerator.numEnemiesInLevel = 0

number of enemies in a given level

6.17.4.10 numPagesInLevel

int LevelGenerator.numPagesInLevel = 0

6.17.4.11 potentialCentres

RoomCentre[] LevelGenerator.potentialCentres

6.17.4.12 rooms

RoomPrefabsLevelGenerator.rooms

6.17.4.13 selectedDirection

DirectionLevelGenerator.selectedDirection

6.17.4.14 startColor

Color LevelGenerator.startColor

6.17.4.15 whatIsRoom

LayerMask LevelGenerator.whatIsRoom

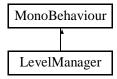
6.17.4.16 xOffset

float LevelGenerator.xOffset = 18f

6.18 LevelManager Class Reference

This class manages each level.

Inheritance diagram for LevelManager:



Public Member Functions

- IEnumeratorLevelEnd()
- •voidPauseUnpause()

When false, the pause menu is displayed.

Public Attributes

- •floatwaitToLoad= 4f
- stringnextLevel
- stringartCutscene
- stringhistoryCutscene
- stringmusicCutscene
- stringscienceCutscene
- boolisPaused

Is it a pause menu.

- TransformstartPoint
- stringthisPlayer

Static Public Attributes

staticLevelManagerinstance

6.18.1 Detailed Description

This class manages each level.

6.18.2 Member Function Documentation

6.18.2.1 LevelEnd()

```
IEnumerator LevelManager.LevelEnd ( )
```

if current scene is character select screen load the correct cutscene depending on character selected

6.18.2.2 PauseUnpause()

```
void LevelManager.PauseUnpause ( )
```

When false, the pause menu is displayed.

When true, the pause menu is hidden.

6.18.3 Member Data Documentation

6.18.3.1 artCutscene

string LevelManager.artCutscene

6.18.3.2 historyCutscene

string LevelManager.historyCutscene

6.18.3.3 instance

LevelManagerLevelManager.instance [static]

6.18.3.4 isPaused

bool LevelManager.isPaused

Is it a pause menu.

6.18.3.5 musicCutscene

string LevelManager.musicCutscene

6.18.3.6 nextLevel

string LevelManager.nextLevel

6.18.3.7 scienceCutscene

string LevelManager.scienceCutscene

6.19.1.1 startPoint

Transform LevelManager.startPoint

6.19.1.2 thisPlayer

string LevelManager.thisPlayer

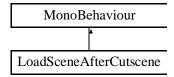
6.19.1.3 waitToLoad

float LevelManager.waitToLoad = 4f

6.19 LoadSceneAfterCutscene Class Reference

This class decides the scene to load after cutscenes.

Inheritance diagram for LoadSceneAfterCutscene:



Public Attributes

- stringnextLevel
- VideoPlayervideoPlayer

6.19.1 Detailed Description

This class decides the scene to load after cutscenes.

6.19.2 Member Data Documentation

6.19.2.1 nextLevel

string LoadSceneAfterCutscene.nextLevel

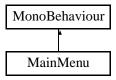
6.19.2.2 videoPlayer

VideoPlayer LoadSceneAfterCutscene.videoPlayer

6.20 MainMenu Class Reference

This class creates and controls the main menu.

Inheritance diagram for MainMenu:



Public Member Functions

- voidStartGame()
- voidGotoTutorial()
- voidExitGame()

Public Attributes

stringlevelToLoad

Static Public Attributes

- staticMainMenuinstance
- static inttutorial

6.20.1 Detailed Description

This class creates and controls the main menu.

6.20.2 Member Function Documentation

6.20.2.1 ExitGame()

void MainMenu.ExitGame ()

this line ONLY works when you're not in the Unity editor

6.20.2.2 GotoTutorial()

void MainMenu.GotoTutorial ()

6.20.2.3 StartGame()

void MainMenu.StartGame ()

6.20.3 Member Data Documentation

6.20.3.1 instance

MainMenuMainMenu.instance [static]

6.20.3.2 levelToLoad

string MainMenu.levelToLoad

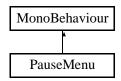
6.20.3.3 tutorial

int MainMenu.tutorial [static]

6.21 PauseMenu Class Reference

class to control pause menu scene

Inheritance diagram for PauseMenu:



Public Member Functions

```
voidPauseUnpause()
voidResume()
when button clicked, will resume game
```

voidReturnToMainMenu()

when button clicked, will return user to main menu

voidopenTutorial()

when button clicked, will load tutorial scene

Public Attributes

- GameObjectpauseMenu
- •stringmainMenuScene
- stringtutorialScene

Static Public Attributes

- staticPauseMenuinstance
- •static boolisPaused=false

6.21.1 Detailed Description

class to control pause menu scene

6.21.2 Member Function Documentation

6.21.2.1 openTutorial()

```
void PauseMenu.openTutorial ( )
```

when button clicked, will load tutorial scene

6.21.2.2 PauseUnpause()

```
void PauseMenu.PauseUnpause ( )
```

6.21.2.3 Resume()

```
void PauseMenu.Resume ( )
```

when button clicked, will resume game

6.21.2.4 ReturnToMainMenu()

```
void PauseMenu.ReturnToMainMenu ( )
```

when button clicked, will return user to main menu

6.21.3 Member Data Documentation

6.21.3.1 instance

PauseMenuPauseMenu.instance [static]

6.21.3.2 isPaused

```
bool PauseMenu.isPaused = false [static]
```

6.21.3.3 mainMenuScene

string PauseMenu.mainMenuScene

6.21.3.4 pauseMenu

GameObject PauseMenu.pauseMenu

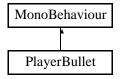
6.21.3.5 tutorialScene

string PauseMenu.tutorialScene

6.22 PlayerBullet Class Reference

This class controls bullets fired by the player.

Inheritance diagram for PlayerBullet:



Public Attributes

•floatspeed= 7.5f

bullet speed is 7.5 by default, can be changed in Unity.

- Rigidbody2DtheRB
- GameObjectimpactEffect
- •intdamageToGive= 50

bullets do 50 damage by default. can be changed in Unity.

6.22.1 Detailed Description

This class controls bullets fired by the player.

6.22.2 Member Data Documentation

6.22.2.1 damageToGive

```
int PlayerBullet.damageToGive = 50
```

bullets do 50 damage by default. can be changed in Unity.

6.22.2.2 impactEffect

GameObject PlayerBullet.impactEffect

6.23.1.1 speed

```
float PlayerBullet.speed = 7.5f
```

bullet speed is 7.5 by default, can be changed in Unity.

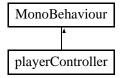
6.23.1.2 theRB

Rigidbody2D PlayerBullet.theRB

6.23 playerController Class Reference

This class controls the player.

Inheritance diagram for playerController:



Public Member Functions

voidswitchGun()

when the user switches gun, it is reflected in the UI on the bottom left.

Public Attributes

- floatmoveSpeed
- Rigidbody2DtheRB
- TransformgunArm
- Animatoranim
- SpriteRendererbodySR
- •List < Gun > availableWeapons= new List <Gun>()
- intcurrentGun
- •boolcanMove= true

Static Public Attributes

staticplayerControllerinstance

public variables can be accessed in the Inspector pane in Unity

6.23.1 Detailed Description

This class controls the player.

6.23.2 Member Function Documentation

6.23.2.1 switchGun()

```
void playerController.switchGun ( )
```

when the user switches gun, it is reflected in the UI on the bottom left.

6.23.3 Member Data Documentation

6.23.3.1 anim

Animator playerController.anim

6.23.3.2 availableWeapons

 $\label{listGun} \mbox{List} \mbox{\tt Gun} \mbox{\tt player} \mbox{\tt Controller.available} \mbox{\tt Weapons} \mbox{\tt = new List} \mbox{\tt Gun} \mbox{\tt >} \mbox{\tt ()}$

6.23.3.3 bodySR

SpriteRenderer playerController.bodySR

6.23.3.4 canMove

bool playerController.canMove = true

6.24.1.1 currentGun

int playerController.currentGun

6.24.1.2 gunArm

Transform playerController.gunArm

6.24.1.3 instance

playerControllerplayerController.instance [static]

public variables can be accessed in the Inspector pane in Unity

6.24.1.4 moveSpeed

float playerController.moveSpeed

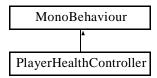
6.24.1.5 theRB

Rigidbody2D playerController.theRB

6.24 PlayerHealthController Class Reference

class controls the health of the player and updates UI.

Inheritance diagram for PlayerHealthController:



Public Member Functions

voidDamagePlayer()

method damages player when player is hit by a bullet or runs over a spike

voidhealPlayer(int healAmount)

method heals player when health pickup collected

Public Attributes

- intcurrentHealth
- intmaxHealth

sets the current and max health. Can be changed in Unity

•floatdamageInvincLength= 1f

sets the invincibility length (after being damaged) to one second

Static Public Attributes

staticPlayerHealthControllerinstance

6.24.1 Detailed Description

class controls the health of the player and updates UI.

6.24.2 Member Function Documentation

6.24.2.1 DamagePlayer()

```
void PlayerHealthController.DamagePlayer ( )
```

method damages player when player is hit by a bullet or runs over a spike

health goes down by 1 if the player is not currently invincible

when the player is invincible, the user can see this because the player becomes slightly transparent

when the player dies, the death screen appears

UI shows health on top left

6.24.2.2 healPlayer()

```
void PlayerHealthController.healPlayer (  \qquad \qquad \text{int } healAmount \ ) \\
```

method heals player when health pickup collected

if the player picks up a health pack, the current health increases

but it can't go above the max health

6.24.3 Member Data Documentation

6.25.1.1 currentHealth

int PlayerHealthController.currentHealth

6.25.1.2 damageInvincLength

float PlayerHealthController.damageInvincLength = 1f

sets the invincibility length (after being damaged) to one second

6.25.1.3 instance

PlayerHealthControllerPlayerHealthController.instance [static]

6.25.1.4 maxHealth

 $\verb|int PlayerHealthController.maxHealth|\\$

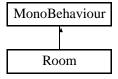
sets the current and max health. Can be changed in Unity

6.25 Roguelike_Dungeon.Program Class Reference

6.26 Room Class Reference

Class that controls the operation of rooms.

Inheritance diagram for Room:



Public Member Functions

voidOpenDoors()

Method to open doors for the player.

Public Attributes

- boolcloseWhenEntered
 - openWhenEnemiesCleared
- GameObject[]doors
- boolroomActive
- GameObjectlevelExit

6.26.1 Detailed Description

Class that controls the operation of rooms.

6.26.2 Member Function Documentation

6.26.2.1 OpenDoors()

```
void Room.OpenDoors ( )
```

Method to open doors for the player.

6.26.3 Member Data Documentation

6.26.3.1 closeWhenEntered

bool Room.closeWhenEntered

open When Enemies Cleared

6.26.3.2 doors

```
GameObject [] Room.doors
```

6.26.3.3 levelExit

GameObject Room.levelExit

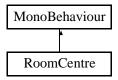
6.26.3.4 roomActive

bool Room.roomActive

6.27 RoomCentre Class Reference

This class controls the room centres.

Inheritance diagram for RoomCentre:



Public Attributes

- •List < GameObject > enemies= new List <GameObject>()
 - list of all enemies in that room used by Level Generator class to calculate total number of enemies in level
- boolopenWhenEnemiesCleared
- RoomtheRoom
- GameObjectlevelExit
- List < Transform > essayPagePoints= new List < Transform>()

list of locations where an essay could be located

List < GameObject > essayPages= new List <GameObject>()

list of essay page prefabs

List < GameObject > essayPagesInRoom= new List < GameObject>()

list of actual essay pages in that room used by Level Generator class to calculate total number of pages in level

- List < int > pageLocation= new List <int>()
 - list of actual page locations used in that room
- intnumPagesInRoom
- intnewPageLocation

Static Public Attributes

staticRoomCentreinstance

6.27.1 Detailed Description

This class controls the room centres.

6.27.2 Member Data Documentation

6.27.2.1 enemies

```
List<GameObject>RoomCentre.enemies = new List<GameObject>()
```

list of all enemies in that room used by Level Generator class to calculate total number of enemies in level

6.27.2.2 essayPagePoints

```
List<Transform>RoomCentre.essayPagePoints = new List<Transform>()
```

list of locations where an essay could be located

6.27.2.3 essayPages

```
List<GameObject>RoomCentre.essayPages = new List<GameObject>()
```

list of essay page prefabs

6.27.2.4 essayPagesInRoom

```
List<GameObject>RoomCentre.essayPagesInRoom = new List<GameObject>()
```

list of actual essay pages in that room used by Level Generator class to calculate total number of pages in level

6.27.2.5 instance

```
RoomCentreRoomCentre.instance [static]
```

6.27.2.6 levelExit

 ${\tt GameObject\ RoomCentre.levelExit}$

6.27.2.7 newPageLocation

int RoomCentre.newPageLocation

6.28.1.1 numPagesInRoom

int RoomCentre.numPagesInRoom

6.28.1.2 openWhenEnemiesCleared

 $\verb|bool RoomCentre.openWhenEnemiesCleared|\\$

6.28.1.3 pageLocation

List<int>RoomCentre.pageLocation = new List<int>()

list of actual page locations used in that room

6.28.1.4 theRoom

 ${\tt Room} {\tt Room} {\tt Centre.the Room}$

6.28 RoomPrefabs Class Reference

Public Attributes

GameObjectsingleUp

6.28.1 Member Data Documentation

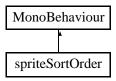
6.28.1.1 singleUp

GameObject RoomPrefabs.singleUp

6.29 spriteSortOrder Class Reference

This class controls the ordering of the sprites.

Inheritance diagram for spriteSortOrder:



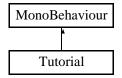
6.29.1 Detailed Description

This class controls the ordering of the sprites.

6.30 Tutorial Class Reference

class to control tutorial scene.

Inheritance diagram for Tutorial:



Public Member Functions

voidReturnToMainMenu()

when button clicked, will return user to main menu

voidReturnToPauseMenu()

when button clicked, will return user to pause menu

Public Attributes

- •stringmainMenuScene
- stringpauseMenuScene

6.30.1 Detailed Description

class to control tutorial scene.

6.30.2 Member Function Documentation

6.30.2.1 ReturnToMainMenu()

```
void Tutorial.ReturnToMainMenu ( )
```

when button clicked, will return user to main menu

6.30.2.2 ReturnToPauseMenu()

```
void Tutorial.ReturnToPauseMenu ( )
```

when button clicked, will return user to pause menu

6.30.3 Member Data Documentation

6.30.3.1 mainMenuScene

string Tutorial.mainMenuScene

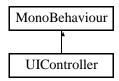
6.30.3.2 pauseMenuScene

string Tutorial.pauseMenuScene

6.31 UIController Class Reference

This class is tasked with managing the User Interface.

Inheritance diagram for UIController:



Public Member Functions

```
voidStartFadeToBlack()
```

voidReturnToMainMenu()

when the users clicks to return to main menu, this happens

•voidResume()

when the user clicks resume, the gameplay is resumed

Public Attributes

- SliderhealthSlider
- TexthealthText
- GameObjectpauseMenu
- stringmainMenuScene
- •ImagefadeScreen
- floatfadeSpeed
- ImagecurrentGun
- TextgunText
- SlideressayPageSlider
- TextessayPageText
- ImagenumPages

Static Public Attributes

staticUIControllerinstance

6.31.1 Detailed Description

This class is tasked with managing the User Interface.

6.31.2 Member Function Documentation

6.31.2.1 Resume()

```
void UIController.Resume ( )
```

when the user clicks resume, the gameplay is resumed

6.31.2.2 ReturnToMainMenu()

```
void UIController.ReturnToMainMenu ( )
```

when the users clicks to return to main menu, this happens

6.31.2.3 StartFadeToBlack()

void UIController.StartFadeToBlack ()

6.31.3 Member Data Documentation

6.31.3.1 currentGun

Image UIController.currentGun

6.31.3.2 essayPageSlider

Slider UIController.essayPageSlider

6.31.3.3 essayPageText

Text UIController.essayPageText

6.31.3.4 fadeScreen

Image UIController.fadeScreen

6.31.3.5 fadeSpeed

 ${\tt float\ UIController.fadeSpeed}$

6.31.3.6 gunText

Text UIController.gunText

6.31.3.7 healthSlider

Slider UIController.healthSlider

6.31.3.8 healthText

Text UIController.healthText

6.31.3.9 instance

UIControllerUIController.instance [static]

6.31.3.10 mainMenuScene

string UIController.mainMenuScene

6.31.3.11 numPages

Image UIController.numPages

6.31.3.12 pauseMenu

GameObject UIController.pauseMenu

Chapter 7

File Documentation

7.1 breakables.cs File Reference

Classes

·classbreakables

this class controls the breakable objects such as the chests.

7.2 brokenPieces.cs File Reference

Classes

•classbrokenPieces

this class controls the broken pieces released by the breakable object.

7.3 CameraController.cs File Reference

Classes

·classCameraController

This class controls the camera.

7.4 CharacterSelectManager.cs File Reference

Classes

classCharacterSelectManager

Class to control the selection process of the game.

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7.5 CharacterSelector.cs File Reference

Classes

·classCharacterSelector

This class controls the character selection process in the game.

7.6 DamagePlayer.cs FileReference

Classes

classDamagePlayer

This class manages the player's health.

7.7 EnemyBullet.cs File Reference

Classes

classEnemyBullet

This class controls the bullets fired by the enemies.

7.8 EnemyController.cs File Reference

Classes

classEnemyController

This class controls the enemies.

7.9 enemySleepAnimation.cs File Reference

Classes

classenemySleepAnimation

this class controls the sleep animation of enemies when their health drops to zero.

7.10 essayPageController.cs File Reference

Classes

classessayPageController

controller class for the essay page collectibles.

7.11 essayPages.cs File Reference

Classes

classessayPages

class controls the collection of essay pages.

7.12 Gun.cs File Reference

Classes

•classGun

This class controls the guns used by the player.

7.13 GunChest.cs File Reference

Classes

·classGunChest

This class controls the chests where players can get new weapons.

7.14 GunPickup.cs File Reference

Classes

•classGunPickup

This class enables the player pick up guns.

7.15 healthPickup.cs File Reference

Classes

classhealthPickup

class controls health pickups to restore player health.

7.16 LevelExit.cs File Reference

Classes

·classLevelExit

This class selects the next level to load.

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7.17 LevelGenerator.cs File Reference

Classes

classLevelGenerator

This class generated levels randomly.

classRoomPrefabs

7.18 LevelManager.cs File Reference

Classes

classLevelManager

This class manages each level.

7.19 LoadSceneAfterCutscene.cs File Reference

Classes

·classLoadSceneAfterCutscene

This class decides the scene to load after cutscenes.

7.20 MainMenu.cs File Reference

Classes

•classMainMenu

This class creates and controls the main menu.

7.21 PauseMenu.cs File Reference

Classes

·classPauseMenu

class to control pause menu scene

7.22 PlayerBullet.cs File Reference

Classes

classPlayerBullet

This class controls bullets fired by the player.

7.23 playerController.cs File Reference

Classes

classplayerController

This class controls the player.

7.24 PlayerHealthController.cs File Reference

Classes

classPlayerHealthController

class controls the health of the player and updates UI.

7.25 Program.cs File Reference

Classes

classRoguelike_Dungeon.Program

Namespaces

namespaceRoguelike_Dungeon

7.26 Room.cs File Reference

Classes

•classRoom

Class that controls the operation of rooms.

7.27 RoomCentre.cs File Reference

Classes

·classRoomCentre

This class controls the room centres.

Typedefs

•usingRandom= UnityEngine.Random

File Documentation

7.27.1 Typedef Documentation

7.27.1.1 Random

usingRandom= UnityEngine.Random

7.28 spriteSortOrder.cs File Reference

Classes

•classspriteSortOrder

This class controls the ordering of the sprites.

7.29 Tutorial.cs File Reference

Classes

classTutorial

class to control tutorial scene.

7.30 UlController.cs File Reference

Classes

•classUIController

This class is tasked with managing the User Interface.