# Platform 2D Game

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# **Chapter 1**

# **Hierarchical Index**

# 1.1 Class Hierarchy

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# Chapter 2

# **Class Index**

# 2.1 Class List

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CameraController	
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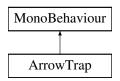
# **Chapter 3**

# **Class Documentation**

# 3.1 ArrowTrap Class Reference

An class for arrowtrap trap

Inheritance diagram for ArrowTrap:



# **Private Member Functions**

· void Attack ()

Method for arrow attack.

• int FindArrow ()

Method for getting arrow form arrows array that holds arrows

• void Update ()

Method defines how fast the arrow should be shooting

# **Private Attributes**

- · float attackCooldown
- Transform firePoint
- GameObject[] arrows
- float cooldownTimer

# 3.1.1 Detailed Description

An class for arrowtrap trap

# 3.1.2 Member Data Documentation

#### 3.1.2.1 arrows

```
GameObject [] ArrowTrap.arrows [private]
```

Arrows list

#### 3.1.2.2 attackCooldown

```
float ArrowTrap.attackCooldown [private]
```

Cooldown of an attack

#### 3.1.2.3 cooldownTimer

```
float ArrowTrap.cooldownTimer [private]
```

Timer for counting cooldown

#### 3.1.2.4 firePoint

```
Transform ArrowTrap.firePoint [private]
```

Firepoint object

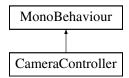
The documentation for this class was generated from the following file:

• D:/Biblioteki/Pulpit/Scripts/ArrowTrap.cs

# 3.2 CameraController Class Reference

A class representing controller of camera

Inheritance diagram for CameraController:



# **Private Member Functions**

• void Update ()

Method for updating camera position

# **Private Attributes**

- float speed
- · Transform player
- · float aheadDistance
- float cameraSpeed
- float currentPosX
- Vector3 velocity = Vector3.zero

# 3.2.1 Detailed Description

A class representing controller of camera

# 3.2.2 Member Data Documentation

# 3.2.2.1 aheadDistance

float CameraController.aheadDistance [private]

Player object

#### 3.2.2.2 cameraSpeed

float CameraController.cameraSpeed [private]

How far we should we see ahed

#### 3.2.2.3 currentPosX

float CameraController.currentPosX [private]

Speed of chaning ahed

#### 3.2.2.4 speed

float CameraController.speed [private]

Speed of camera

#### 3.2.2.5 velocity

Vector3 CameraController.velocity = Vector3.zero [private]

Velocity vertor

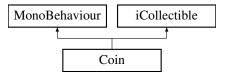
The documentation for this class was generated from the following file:

• D:/Biblioteki/Pulpit/Scripts/CameraController.cs

# 3.3 Coin Class Reference

A class representing coin object

Inheritance diagram for Coin:



# **Public Member Functions**

• void Collect ()

Method for collecting the coins

#### **Events**

• static Action OnCoinCollected

# 3.3.1 Detailed Description

A class representing coin object

# 3.3.2 Event Documentation

#### 3.3.2.1 OnCoinCollected

Action Coin.OnCoinCollected [static]

Event in case of collision with coin

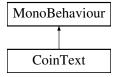
The documentation for this class was generated from the following file:

• D:/Biblioteki/Pulpit/Scripts/Coin.cs

# 3.4 CoinText Class Reference

A class for representing ammount of collected coins

Inheritance diagram for CoinText:



#### **Public Member Functions**

• void IncrementCoinCount ()

Method for chaning number of coins

#### **Public Attributes**

• TextMeshProUGUI coinText

# **Private Member Functions**

• void OnEnable ()

Method for incrementing number of coins

• void OnDisable ()

Method decreasing number of coins

# **Private Attributes**

int coinCount

# 3.4.1 Detailed Description

A class for representing ammount of collected coins

# 3.4.2 Member Data Documentation

#### 3.4.2.1 coinCount

```
int CoinText.coinCount [private]
Ammount of coins
```

#### 3.4.2.2 coinText

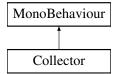
```
TextMeshProUGUI CoinText.coinText
gui of coin object
```

The documentation for this class was generated from the following file:

• D:/Biblioteki/Pulpit/Scripts/CoinText.cs

# 3.5 Collector Class Reference

A class representing collecting an object Inheritance diagram for Collector:



#### **Private Member Functions**

void OnTriggerEnter2D (Collider2D collision)
 Method for collecing if object is collectible

# 3.5.1 Detailed Description

A class representing collecting an object

#### 3.5.2 Member Function Documentation

# 3.5.2.1 OnTriggerEnter2D()

Method for collecing if object is collectible

#### **Parameters**

collision	Collider2D object representing collision

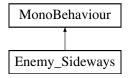
The documentation for this class was generated from the following file:

• D:/Biblioteki/Pulpit/Scripts/Collector.cs

# 3.6 Enemy\_Sideways Class Reference

A Enemy Sideways class

Inheritance diagram for Enemy\_Sideways:



# **Private Member Functions**

· void Awake ()

Method for defining corenrs of movement

· void Update ()

Method for updating position of trap

• void OnTriggerEnter2D (Collider2D collision)

Method for triggering damage of player in case of collision

# **Private Attributes**

- · float movementDistance
- float speed
- · float damage
- bool movingLeft
- float leftEdge
- float rightEdge

# 3.6.1 Detailed Description

A Enemy Sideways class

#### 3.6.2 Member Function Documentation

# 3.6.2.1 OnTriggerEnter2D()

Method for triggering damage of player in case of collision

#### **Parameters**

collision Collider2D object representing collision

# 3.6.3 Member Data Documentation

# 3.6.3.1 damage

float Enemy\_Sideways.damage [private]

Speed

# 3.6.3.2 leftEdge

float Enemy\_Sideways.leftEdge [private]

Left edge distance

# 3.6.3.3 movementDistance

float Enemy\_Sideways.movementDistance [private]

Distance of movemnt

#### 3.6.3.4 movingLeft

bool Enemy\_Sideways.movingLeft [private]

Damage

# 3.6.3.5 rightEdge

float Enemy\_Sideways.rightEdge [private]

Right edge distance

#### 3.6.3.6 speed

```
float Enemy_Sideways.speed [private]
```

Distance

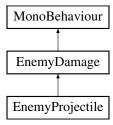
The documentation for this class was generated from the following file:

• D:/Biblioteki/Pulpit/Scripts/Enemy\_Sideways.cs

# 3.7 EnemyDamage Class Reference

A enemy damage class

Inheritance diagram for EnemyDamage:



# **Protected Member Functions**

• void OnTriggerEnter2D (Collider2D collision)

Method for damaging an object in case of collision

# **Protected Attributes**

· float damage

# 3.7.1 Detailed Description

A enemy damage class

#### 3.7.2 Member Function Documentation

# 3.7.2.1 OnTriggerEnter2D()

Method for damaging an object in case of collision

#### **Parameters**

collision	Collider2D object representing collision

# 3.7.3 Member Data Documentation

# 3.7.3.1 damage

float EnemyDamage.damage [protected]

Damage of an enemy

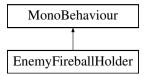
The documentation for this class was generated from the following file:

• D:/Biblioteki/Pulpit/Scripts/EnemyDamage.cs

# 3.8 EnemyFireballHolder Class Reference

A class for holding fireballs objects

Inheritance diagram for EnemyFireballHolder:



#### **Private Member Functions**

• void **Update** ()

Method for updating fireballs

# **Private Attributes**

· Transform enemy

# 3.8.1 Detailed Description

A class for holding fireballs objects

# 3.8.2 Member Data Documentation

#### 3.8.2.1 enemy

Transform EnemyFireballHolder.enemy [private]

Enemy object

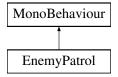
The documentation for this class was generated from the following file:

• D:/Biblioteki/Pulpit/Scripts/EnemyFireballHolder.cs

# 3.9 EnemyPatrol Class Reference

A class representing enemy patrol behavior

Inheritance diagram for EnemyPatrol:



#### **Private Member Functions**

- void Awake ()
- void OnDisable ()
- void Update ()

Method for updating direction

• void DirectionChange ()

Method for changing direction

• void MoveInDirection (int \_direction)

Method for checking in with direction to move

#### **Private Attributes**

- Transform leftEdge
- Transform rightEdge
- · Transform enemy
- float speed
- Vector3 initScale
- bool movingLeft
- float idleDuration
- float idleTimer
- Animator anim

# 3.9.1 Detailed Description

A class representing enemy patrol behavior

# 3.9.2 Member Function Documentation

# 3.9.2.1 MoveInDirection()

Method for checking in with direction to move

**Parameters** 

\_direction | Given direction to move

# 3.9.3 Member Data Documentation

#### 3.9.3.1 anim

```
Animator EnemyPatrol.anim [private]
```

Animator object

#### 3.9.3.2 enemy

```
Transform EnemyPatrol.enemy [private]
```

Enemy object

# 3.9.3.3 idleDuration

```
float EnemyPatrol.idleDuration [private]
```

Idle duration

# 3.9.3.4 idleTimer

float EnemyPatrol.idleTimer [private]

Time of idle

#### 3.9.3.5 initScale

Vector3 EnemyPatrol.initScale [private]

Scale

# 3.9.3.6 leftEdge

Transform EnemyPatrol.leftEdge [private]

Ledge object

#### 3.9.3.7 movingLeft

bool EnemyPatrol.movingLeft [private]

Do i move left?

#### 3.9.3.8 rightEdge

Transform EnemyPatrol.rightEdge [private]

Redge object

# 3.9.3.9 speed

float EnemyPatrol.speed [private]

Speed of movemnt

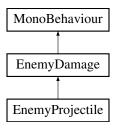
The documentation for this class was generated from the following file:

• D:/Biblioteki/Pulpit/Scripts/EnemyPatrol.cs

# 3.10 EnemyProjectile Class Reference

A class representing enemy projectiles

Inheritance diagram for EnemyProjectile:



#### **Public Member Functions**

• void ActivateProjectile ()

Method for activating projectile

#### **Private Member Functions**

· void Awake ()

Method making refference to animator and collider

· void Update ()

Method for updating projectile position

• void OnTriggerEnter2D (Collider2D collision)

Method for triggering explode animation in case of collision

· void Deactivate ()

Method for deactivating projectile

#### **Private Attributes**

- float speed
- float resetTime
- float lifetime
- Animator anim
- BoxCollider2D coll
- bool hit

#### **Additional Inherited Members**

# 3.10.1 Detailed Description

A class representing enemy projectiles

# 3.10.2 Member Function Documentation

# 3.10.2.1 OnTriggerEnter2D()

Method for triggering explode animation in case of collision

#### **Parameters**

collision Collider2D object representing collision

# 3.10.3 Member Data Documentation

#### 3.10.3.1 anim

Animator EnemyProjectile.anim [private]

Animator obj

# 3.10.3.2 coll

BoxCollider2D EnemyProjectile.coll [private]

BoxCollider obj

#### 3.10.3.3 hit

bool EnemyProjectile.hit [private]

Bool fo hit

#### 3.10.3.4 lifetime

float EnemyProjectile.lifetime [private]

Lifetime

# 3.10.3.5 resetTime

float EnemyProjectile.resetTime [private]

Reset time

#### 3.10.3.6 speed

```
float EnemyProjectile.speed [private]
Speed
```

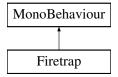
The documentation for this class was generated from the following file:

• D:/Biblioteki/Pulpit/Scripts/EnemyProjectile.cs

# 3.11 Firetrap Class Reference

A class for FireTraps traps

Inheritance diagram for Firetrap:



#### **Private Member Functions**

· void Awake ()

Method makes reffrence to animator and sprite renderer

• void OnTriggerEnter2D (Collider2D collision)

Method for triggering firetrap in case of collision

• IEnumerator ActivateFiretrap ()

Method for activating firetrap with given color and delay

#### **Private Attributes**

- · float damage
- float activationDelay
- float activeTime
- Animator anim
- SpriteRenderer spriteRend
- bool triggered
- · bool active

# 3.11.1 Detailed Description

A class for FireTraps traps

# 3.11.2 Member Function Documentation

# 3.11.2.1 OnTriggerEnter2D()

Method for triggering firetrap in case of collision

#### **Parameters**

collision	Collider2D object representing collision	
-----------	--	--

# 3.11.3 Member Data Documentation

# 3.11.3.1 activationDelay

float Firetrap.activationDelay [private]

Delay activation

# 3.11.3.2 active

bool Firetrap.active [private]

When the trap is active and can hurt the player

# 3.11.3.3 activeTime

float Firetrap.activeTime [private]

Time of being active

#### 3.11.3.4 anim

Animator Firetrap.anim [private]

Animator Obj

# 3.11.3.5 damage

float Firetrap.damage [private]

Damage

#### 3.11.3.6 spriteRend

SpriteRenderer Firetrap.spriteRend [private]

SpriteRenderer Obj

# 3.11.3.7 triggered

bool Firetrap.triggered [private]

Wwhen the trap gets triggered

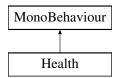
The documentation for this class was generated from the following file:

• D:/Biblioteki/Pulpit/Scripts/Firetrap.cs

# 3.12 Health Class Reference

A class representing health system

Inheritance diagram for Health:



# **Public Member Functions**

- void TakeDamage (float \_damage)
  - Method represents taking damage
- void AddHealth (float \_value)

Method for adding health (in case of collecting hearths)

· void Respawn ()

Method for respawning

# **Properties**

• float currentHealth [get, private set]

# **Private Member Functions**

· void Awake ()

Method with refrence to health, animator and sprit renderer

• IEnumerator Invunerability ()

Method for being invulnerable for given time

• void Deactivate ()

Method for deactivating system

# **Private Attributes**

- float startingHealth
- Animator anim
- bool dead
- float iFramesDuration
- int numberOfFlashes
- SpriteRenderer spriteRend
- Behaviour[] components
- bool invulnerable
- AudioClip deathSound
- AudioClip hurtSound

# 3.12.1 Detailed Description

A class representing health system

#### 3.12.2 Member Data Documentation

#### 3.12.2.1 anim

```
Animator Health.anim [private]
```

Animator Obj

#### 3.12.2.2 components

```
Behaviour [] Health.components [private]
```

List of objects componets to be disabled

#### 3.12.2.3 dead

bool Health.dead [private]

Is object dead

#### 3.12.2.4 deathSound

AudioClip Health.deathSound [private]

Sound of death

#### 3.12.2.5 hurtSound

AudioClip Health.hurtSound [private]

Sound of being hurt

#### 3.12.2.6 iFramesDuration

float Health.iFramesDuration [private]

Frames duration

#### 3.12.2.7 invulnerable

bool Health.invulnerable [private]

Is object invulnerable

# 3.12.2.8 numberOfFlashes

int Health.numberOfFlashes [private]

Number of flashes after being damaged

# 3.12.2.9 spriteRend

SpriteRenderer Health.spriteRend [private]

SpriteRenderer

#### 3.12.2.10 startingHealth

float Health.startingHealth [private]

Starting health

# 3.12.3 Property Documentation

# 3.12.3.1 currentHealth

```
float Health.currentHealth [get], [private set]
```

Current health

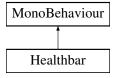
The documentation for this class was generated from the following file:

· D:/Biblioteki/Pulpit/Scripts/Health.cs

# 3.13 Healthbar Class Reference

A class representing healthbar

Inheritance diagram for Healthbar:



#### **Private Member Functions**

· void Start ()

Method initalizing healthbar at beginning of game

· void Update ()

Method for updating healthbar in gametime

#### **Private Attributes**

- Health playerHealth
- · Image totalhealthBar
- Image currenthealthBar

# 3.13.1 Detailed Description

A class representing healthbar

#### 3.13.2 Member Data Documentation

#### 3.13.2.1 currenthealthBar

Image Healthbar.currenthealthBar [private]

Current health

# 3.13.2.2 playerHealth

Health Healthbar.playerHealth [private]

Health Obj

#### 3.13.2.3 totalhealthBar

Image Healthbar.totalhealthBar [private]

Total health bar

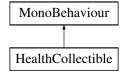
The documentation for this class was generated from the following file:

• D:/Biblioteki/Pulpit/Scripts/Healthbar.cs

# 3.14 HealthCollectible Class Reference

A class for collectible health objects "hearts" in game

Inheritance diagram for HealthCollectible:



#### **Private Member Functions**

void OnTriggerEnter2D (Collider2D collision)
 Method for triggering adding of health in case of collision

# **Private Attributes**

· float healthValue

# 3.14.1 Detailed Description

A class for collectible health objects "hearts" in game

# 3.14.2 Member Function Documentation

# 3.14.2.1 OnTriggerEnter2D()

Method for triggering adding of health in case of collision

#### **Parameters**

collision	Collider2D object representing collision

# 3.14.3 Member Data Documentation

#### 3.14.3.1 healthValue

```
float HealthCollectible.healthValue [private]
```

Value of health

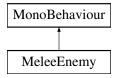
The documentation for this class was generated from the following file:

• D:/Biblioteki/Pulpit/Scripts/HealthCollectible.cs

# 3.15 MeleeEnemy Class Reference

A class representing melee enemy.

Inheritance diagram for MeleeEnemy:



#### **Private Member Functions**

· void Awake ()

Method initialization of enemy patrol and animator

· void Update ()

Method for updating behaveour of enemy, if he see player, they dalay of damage and attack

• bool PlayerInSight ()

Method difines when enemy see player

• void **DamagePlayer** ()

Method for damaging player by enemy in situation that player is in range of enemy

## **Private Attributes**

- · float attackCooldown
- float range
- int damage
- \*float colliderDistance
- BoxCollider2D boxCollider
- · LayerMask playerLayer
- float cooldownTimer = Mathf.Infinity
- Animator anim
- · Health playerHealth
- · EnemyPatrol enemyPatrol

## 3.15.1 Detailed Description

A class representing melee enemy.

## 3.15.2 Member Data Documentation

## 3.15.2.1 anim

Animator MeleeEnemy.anim [private]

Animator Obj

#### 3.15.2.2 attackCooldown

float MeleeEnemy.attackCooldown [private]

Cooldown between attacks

## 3.15.2.3 boxCollider

BoxCollider2D MeleeEnemy.boxCollider [private]

BoxCollider2D Obj

#### 3.15.2.4 colliderDistance

\* float MeleeEnemy.colliderDistance [private]

Distanve of collisions

#### 3.15.2.5 cooldownTimer

float MeleeEnemy.cooldownTimer = Mathf.Infinity [private]

Cooldown timer

## 3.15.2.6 damage

int MeleeEnemy.damage [private]

Damage of enemy

## 3.15.2.7 enemyPatrol

EnemyPatrol MeleeEnemy.enemyPatrol [private]

EnemyPatrol Obj

#### 3.15.2.8 playerHealth

```
Health MeleeEnemy.playerHealth [private]
```

Health Obj

## 3.15.2.9 range

```
float MeleeEnemy.range [private]
```

Range

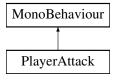
The documentation for this class was generated from the following file:

• D:/Biblioteki/Pulpit/Scripts/MeleeEnemy.cs

# 3.16 PlayerAttack Class Reference

A class representing player attack

Inheritance diagram for PlayerAttack:



## **Private Member Functions**

· void Awake ()

Method for initializing plaer componets and animator

• void Update ()

Method for updating if player can attack

· void Attack ()

Method for attacking

• int FindFireball ()

Method for firaball attack

## **Private Attributes**

- float attackCooldown
- Transform firePoint
- GameObject[] fireballs
- AudioClip fireballSound
- Animator anim
- · PlayerMovement playerMovement
- float cooldownTimer = Mathf.Infinity

## 3.16.1 Detailed Description

A class representing player attack

## 3.16.2 Member Data Documentation

## 3.16.2.1 anim

Animator PlayerAttack.anim [private]

Animator Obj

## 3.16.2.2 attackCooldown

float PlayerAttack.attackCooldown [private]

Cooldown between attacks

#### 3.16.2.3 cooldownTimer

float PlayerAttack.cooldownTimer = Mathf.Infinity [private]

CooldownTimer

#### 3.16.2.4 fireballs

```
GameObject [] PlayerAttack.fireballs [private]
```

fireballs list - array

## 3.16.2.5 fireballSound

AudioClip PlayerAttack.fireballSound [private]

Sound of fireball

#### 3.16.2.6 firePoint

Transform PlayerAttack.firePoint [private]

firePoint aiming for firebals

## 3.16.2.7 playerMovement

```
PlayerMovement PlayerAttack.playerMovement [private]
```

PlayerMovement Obj

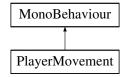
The documentation for this class was generated from the following file:

• D:/Biblioteki/Pulpit/Scripts/PlayerAttack.cs

# 3.17 PlayerMovement Class Reference

A class for player movements

Inheritance diagram for PlayerMovement:



## **Public Member Functions**

• bool canAttack ()

Method for checks if player can attack

## **Private Member Functions**

• void Awake ()

Method initializes componets of movement

• void Update ()

Method for updating behaviour of player with animations,

• void Jump ()

Method for jumping

• void WallJump ()

Method for jumping on wall

· bool isGrounded ()

Method for checks if player is grounded

• bool onWall ()

Method for checks if player in on wall

## **Private Attributes**

- float speed
- float jumpPower
- float coyoteTime
- float coyoteCounter
- int extraJumps
- int jumpCounter
- float wallJumpX
- float wallJumpY
- LayerMask groundLayer
- · LayerMask wallLayer
- AudioClip jumpSound
- AudioClip walkSound
- Rigidbody2D body
- Animator anim
- BoxCollider2D boxCollider
- float wallJumpCooldown
- float horizontalInput

## 3.17.1 Detailed Description

A class for player movements

#### 3.17.2 Member Function Documentation

## 3.17.2.1 canAttack()

```
bool PlayerMovement.canAttack ( )
```

Method for checks if player can attack

Returns

false if player is in situation that he cann't attack

## 3.17.2.2 onWall()

```
bool PlayerMovement.onWall ( ) [private]
```

Method for checks if player in on wall

Returns

null in case of collision

## 3.17.3 Member Data Documentation

#### 3.17.3.1 anim

Animator PlayerMovement.anim [private]

Animator Obj

## 3.17.3.2 body

Rigidbody2D PlayerMovement.body [private]

Rigidbody2D Obj

## 3.17.3.3 boxCollider

BoxCollider2D PlayerMovement.boxCollider [private]

BoxCollider2D Obj

## 3.17.3.4 coyoteCounter

float PlayerMovement.coyoteCounter [private]

How much time passed since the player ran off the edge

## 3.17.3.5 coyoteTime

float PlayerMovement.coyoteTime [private]

How much time the player can hang in the air before jumping

## 3.17.3.6 extraJumps

int PlayerMovement.extraJumps [private]

How many extre jumpw player will have

## 3.17.3.7 jumpCounter

```
int PlayerMovement.jumpCounter [private]
```

Counter of jumps

## 3.17.3.8 jumpPower

```
float PlayerMovement.jumpPower [private]
```

Power of jumping

## 3.17.3.9 jumpSound

```
AudioClip PlayerMovement.jumpSound [private]
```

Jump sound

#### 3.17.3.10 speed

```
float PlayerMovement.speed [private]
```

Speed

#### 3.17.3.11 walkSound

```
AudioClip PlayerMovement.walkSound [private]
```

Walk sound

## 3.17.3.12 wallJumpCooldown

```
float PlayerMovement.wallJumpCooldown [private]
```

Cooldown between jumping on wall

## 3.17.3.13 wallJumpX

```
float PlayerMovement.wallJumpX [private]
```

Horizontal wall jump force

#### 3.17.3.14 wallJumpY

float PlayerMovement.wallJumpY [private]

Vertical wall jump force

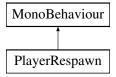
The documentation for this class was generated from the following file:

• D:/Biblioteki/Pulpit/Scripts/PlayerMovement.cs

# 3.18 PlayerRespawn Class Reference

A class representing player respawn

Inheritance diagram for PlayerRespawn:



## **Public Member Functions**

· void Respawn ()

Method for respawning

#### **Private Member Functions**

· void Awake ()

Method for initializion of health system

void OnTriggerEnter2D (Collider2D collision)

Method for tringgering checkpoint animation and sound

#### **Private Attributes**

- · AudioClip checkpointSound
- · Transform currentCheckpoint
- · Health playerHealth

## 3.18.1 Detailed Description

A class representing player respawn

## 3.18.2 Member Data Documentation

## 3.18.2.1 checkpointSound

AudioClip PlayerRespawn.checkpointSound [private]

Sound of checkpoint

## 3.18.2.2 currentCheckpoint

Transform PlayerRespawn.currentCheckpoint [private]

Checkpoint Obj

## 3.18.2.3 playerHealth

Health PlayerRespawn.playerHealth [private]

Health of player

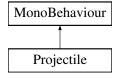
The documentation for this class was generated from the following file:

• D:/Biblioteki/Pulpit/Scripts/PlayerRespawn.cs

# 3.19 Projectile Class Reference

A class for projectiles

Inheritance diagram for Projectile:



## **Public Member Functions**

• void SetDirection (float \_direction)

Method for seting direction of projectile

## **Private Member Functions**

· void Awake ()

Method for initializion collider and animator

• void Update ()

Method for updating postion of projectile

• void OnTriggerEnter2D (Collider2D collision)

Method for tringgering damage in case of collision with projectile

· void Deactivate ()

Method for deactivating

## **Private Attributes**

- float speed
- float direction
- bool hit
- · float lifetime
- · Animator anim
- BoxCollider2D boxCollider

## 3.19.1 Detailed Description

A class for projectiles

## 3.19.2 Member Function Documentation

## 3.19.2.1 OnTriggerEnter2D()

Method for tringgering damage in case of collision with projectile

**Parameters** 

```
collision Collider2D object representing collision
```

#### 3.19.2.2 SetDirection()

```
void Projectile.SetDirection ( {\tt float} \ \_{\tt direction} \ )
```

Method for seting direction of projectile

## **Parameters**

_direction   Given direction
------------------------------

## 3.19.3 Member Data Documentation

## 3.19.3.1 anim

Animator Projectile.anim [private]

Animator obj

## 3.19.3.2 boxCollider

BoxCollider2D Projectile.boxCollider [private]

BoxCollider Obj

## 3.19.3.3 direction

float Projectile.direction [private]

Projection direction

## 3.19.3.4 hit

bool Projectile.hit [private]

Hit

## 3.19.3.5 lifetime

float Projectile.lifetime [private]

Lifetime

#### 3.19.3.6 speed

```
float Projectile.speed [private]
Speed projectile
```

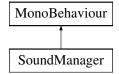
The documentation for this class was generated from the following file:

• D:/Biblioteki/Pulpit/Scripts/Projectile.cs

# 3.20 SoundManager Class Reference

A class manages sound in game

Inheritance diagram for SoundManager:



## **Public Member Functions**

void PlaySound (AudioClip \_sound)
 Method for playing sound

## **Properties**

• static SoundManager instance [get, private set]

## **Private Member Functions**

void Awake ()
 Method for initialization of the sound manager

## **Private Attributes**

• AudioSource source

## 3.20.1 Detailed Description

A class manages sound in game

#### 3.20.2 Member Function Documentation

## 3.20.2.1 PlaySound()

```
\begin{tabular}{ll} {\tt Void SoundManager.PlaySound (} \\ {\tt AudioClip} \_{\tt sound ) \end{tabular}
```

Method for playing sound

## **Parameters**

_sound   Given sound
----------------------

## 3.20.3 Member Data Documentation

## 3.20.3.1 source

AudioSource SoundManager.source [private]

## Sound source

The documentation for this class was generated from the following file:

• D:/Biblioteki/Pulpit/Scripts/SoundManager.cs

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