Turn-based-Template

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Chapter 1

Namespace Index

1.1 Packages

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

| TurnBased |
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| TurnBased.Data |
| TurnBased.Gameplay |
| TurnBased.Grids |
| TurnBased.Player |
| TurnBased.UI |
| TurnBased.Utils |

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Chapter 2

Hierarchical Index

2.1 Class Hierarchy

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| TurnBased.Grids.GridData | 15 |
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| MonoBehaviour | |
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Chapter 3

Class Index

3.1 Class List

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

| TurnBased.Player.AIPlayer | |
|---|----|
| Controls AI Player behavior, making decisions and ending turns, this implements a dumb move- | |
| ment AI in which it returns random available position. | 11 |
| TurnBased.Gameplay.Cell | |
| Controls the color and data for cell in Position | 12 |
| TurnBased.UI.EndGamePanel | |
| The game over panel in which the player can restart with same situation or try a different one | 13 |
| TurnBased.GameManager | |
| Responsible for controlling data for gameplay and scene change handling | 14 |
| TurnBased.Gameplay.GameplayManager | |
| Controls Gameplay loop, giving turns and determining who wins. | 14 |
| TurnBased.UI.GameplayUIManager | |
| Responsible for handling gameplay UI Logic and events. | 14 |
| TurnBased.Grids.GridData | 15 |
| TurnBased.Grids.GridRenderer | |
| Responsible for controlling cells and rendering different events | 15 |
| TurnBased.UI.HealthBar | |
| Shows the health for the given unit. | 16 |
| TurnBased.UI.HealthBarController | |
| Controls shown health bars and initializes it | 17 |
| TurnBased.Player.HumanPlayer | |
| Gives input control to the human player once he gets the turn. | 17 |
| TurnBased.Data.InitialSituation | |
| A full game initial state contains different data that is used by the game to initialize first turn | 18 |
| TurnBased.Player.InputManager | 19 |
| TurnBased.UI.MainMenuUIManager | 19 |
| TurnBased.Player.Playerbase | |
| Base class for player, controls turn loop once it got the turn | 19 |
| TurnBased.Utils.Singleton< T > | |
| A utility class that supports singleton design pattern, used for cross scene interactions | 21 |
| TurnBased.UI.SituationItemUI | 21 |
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| A Smarter AI player with deterministic moves instead of random ones. | 22 |

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|---|----|
| Controls Unit runtime data, current health and available moves | 23 |
| TurnBased.Data.UnitInitialState | |
| Contains the data needed for a unit in initial situation. | 24 |
| TurnBased.Data.UnitSetup | |
| Controls unit data setup, used by UnitsFactory to initialize units on the grid. | 24 |
| TurnBased.Gameplay.UnitsFactory | 25 |

Chapter 4

Namespace Documentation

4.1 TurnBased Namespace Reference

Classes

· class GameManager

Responsible for controlling data for gameplay and scene change handling.

4.2 TurnBased.Data Namespace Reference

Classes

· class InitialSituation

A full game initial state contains different data that is used by the game to initialize first turn.

struct UnitInitialState

Contains the data needed for a unit in initial situation.

· class UnitSetup

Controls unit data setup, used by UnitsFactory to initialize units on the grid.

Enumerations

enum UnitType { Infantry , Tank , Plane }

4.3 TurnBased.Gameplay Namespace Reference

Classes

• class Cell

Controls the color and data for cell in Position.

class GameplayManager

Controls Gameplay loop, giving turns and determining who wins.

· class Unit

Controls Unit runtime data, current health and available moves.

· class UnitInitializer

Initializes and verifies unit data and initial scenarios, to be used by Gameplay. Gameplay Manager

class UnitsFactory

Enumerations

• enum CellHighlightMode { NotHighlighted , CanChooselt , CanMoveTo , CanAttack }

4.4 TurnBased.Grids Namespace Reference

Classes

- · class GridData
- · class GridInitializer

Initializes and verifies grid data to be used by Gameplay. Gameplay Manager

• class GridRenderer

Responsible for controlling cells and rendering different events.

4.5 TurnBased.Player Namespace Reference

Classes

· class AlPlayer

Controls Al Player behavior, making decisions and ending turns, this implements a dumb movement Al in which it returns random available position.

class HumanPlayer

Gives input control to the human player once he gets the turn.

- · class InputManager
- · class Playerbase

Base class for player, controls turn loop once it got the turn.

· class SmartAlPlayer

A Smarter AI player with deterministic moves instead of random ones.

Enumerations

enum PlayerType { AI , SmartAI , Hooman }

4.6 TurnBased.UI Namespace Reference

Classes

· class EndGamePanel

The game over panel in which the player can restart with same situation or try a different one.

· class GameplayUIManager

Responsible for handling gameplay UI Logic and events.

· class HealthBar

Shows the health for the given unit.

· class HealthBarController

Controls shown health bars and initializes it.

- class MainMenuUIManager
- · class SituationItemUI
- · class SituationsLoader
- class SkipButton

4.7 TurnBased.Utils Namespace Reference

Classes

· class CellUtils

Utilities that covers cell related maths.

class Singleton

A utility class that supports singleton design pattern, used for cross scene interactions.

Chapter 5

Class Documentation

5.1 TurnBased.Player.AlPlayer Class Reference

Controls AI Player behavior, making decisions and ending turns, this implements a dumb movement AI in which it returns random available position.

Inherits TurnBased.Player.Playerbase.

Inherited by TurnBased.Player.SmartAlPlayer.

Public Member Functions

- AlPlayer (List< Unit > units, GameplayUlManager manager, GridData data, GridRenderer gridRenderer)
- override void StartTurn ()

Starts the player turn, resets its unit energy and gets the UI ready based on its type.

Protected Member Functions

- virtual IEnumerator TurnCoroutine ()
 - Controls Turn behavior.
- IEnumerator AttackIfPossible (Unit unit)

Attack if enemy unit found in range.

Protected Attributes

• GridData m_gridData

Properties

• override PlayerType Type [get]

Additional Inherited Members

5.1.1 Detailed Description

Controls AI Player behavior, making decisions and ending turns, this implements a dumb movement AI in which it returns random available position.

5.1.2 Member Function Documentation

5.1.2.1 StartTurn()

```
override void TurnBased.Player.AIPlayer.StartTurn ( ) [virtual]
```

Starts the player turn, resets its unit energy and gets the UI ready based on its type.

Reimplemented from TurnBased.Player.Playerbase.

5.1.2.2 TurnCoroutine()

```
virtual IEnumerator TurnBased.Player.AIPlayer.TurnCoroutine ( ) [protected], [virtual]
```

Controls Turn behavior.

Reimplemented in TurnBased.Player.SmartAlPlayer.

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

• Project/Assets/Scripts/Player/AIPlayer.cs

5.2 TurnBased.Gameplay.Cell Class Reference

Controls the color and data for cell in Position.

Inherits MonoBehaviour.

Public Member Functions

- void ChangeHighlight (CellHighlightMode cellHighlightMode)
- Changes the highlight mode to given mode.
- void OnCellPressed ()

Serialized event listener, invokes the event for the cell.

Properties

• CellHighlightMode CurrentHighlightMode [getset]

Current Highlight mode of the cell in grid renderer.

• Vector2Int Position [getset]

Position of the cell in the grid.

• Unit OccupyingUnit [getset]

Current occupying unit of the cell.

Events

• Action < Cell > CellSelected

Invoked when the cell is selected via input.

5.2.1 Detailed Description

Controls the color and data for cell in Position.

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

· Project/Assets/Scripts/Gameplay/Cell.cs

5.3 TurnBased.UI.EndGamePanel Class Reference

The game over panel in which the player can restart with same situation or try a different one.

Inherits MonoBehaviour.

Public Member Functions

- void ShowEndGamePanel (int winningPlayerId)
- void OnRestartButtonPressed ()
- void OnMenuButtonPressed ()

5.3.1 Detailed Description

The game over panel in which the player can restart with same situation or try a different one.

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

• Project/Assets/Scripts/UI/EndGamePanel.cs

5.4 TurnBased.GameManager Class Reference

Responsible for controlling data for gameplay and scene change handling.

Inherits TurnBased.Utils.Singleton < GameManager >.

Public Member Functions

- void GoToGameplayScene ()
- void GoToMainMenu ()

Properties

• InitialSituation ChosenInitalSituation [getset]

The current chosen situation.

5.4.1 Detailed Description

Responsible for controlling data for gameplay and scene change handling.

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

• Project/Assets/Scripts/GameManager.cs

5.5 TurnBased.Gameplay.GameplayManager Class Reference

Controls Gameplay loop, giving turns and determining who wins.

Inherits MonoBehaviour.

5.5.1 Detailed Description

Controls Gameplay loop, giving turns and determining who wins.

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

• Project/Assets/Scripts/Gameplay/GameplayManager.cs

5.6 TurnBased.UI.GameplayUIManager Class Reference

Responsible for handling gameplay UI Logic and events.

Inherits MonoBehaviour.

Public Member Functions

void InitializeHealthbars (List< Unit > units, float gridScale)

Initialize the healthbars for the given units and scale it based on the given gridScale

void OnSkipButtonPressed ()

Invokes Skip Button Pressed event, used as serialized action in unity.

void ReadyToEndTurn ()

Switchs UI state to ready to end.

• void ChangeSkipButtonState (bool state)

Change the interactability of the skip button.

void ShowEndGamePanel (int playerId)

Shows end game panel with the given winning player index.

void TurnStarted (PlayerType type)

Switch UI state to be be at the start of a turn.

Events

Action SkipButtonPressed

Invoked when the skip button is pressed.

5.6.1 Detailed Description

Responsible for handling gameplay UI Logic and events.

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

• Project/Assets/Scripts/UI/GameplayUIManager.cs

5.7 TurnBased.Grids.GridData Class Reference

Properties

- int RowsCount [getset]
- int ColumnsCount [getset]
- float CellSize [getset]
- List < Unit > CurrentUnits [getset]

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

• Project/Assets/Scripts/Grids/GridData.cs

5.8 TurnBased.Grids.GridRenderer Class Reference

Responsible for controlling cells and rendering different events.

Inherits MonoBehaviour.

Public Member Functions

void InitializeGridCells (GridData data)

Initializes the cells based on the given grid data.

void ShowCellsToChooseForUnits (IEnumerable < Unit > units, bool resetAll=true)

Highlight the cells that have the given units.

- void HighlightCellWithUnit (Unit unit)
- · void ResetAll ()

Resets all cells.

void ShowActionsForUnit (Unit unit)

Shows available action for the given unit.

Cell GetCellAtPos (Vector2Int pos)

Gets cell at the given position.

void ShowExplosion (Vector2Int position, Action onComplete)

Shows explosion at the given cell position.

void ShowExplosion (Cell cell, Action onComplete)

Shows explosion at the given cell.

· bool IsOutOfBounds (Vector2Int position)

Checks if the position is out of grid bounds.

bool IsEmptyAtPos (Vector2Int position)

Checks if the cell at the given position is empty.

Events

• Action < Cell > CellSelected

Invoked when a cell is selected.

5.8.1 Detailed Description

Responsible for controlling cells and rendering different events.

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

• Project/Assets/Scripts/Grids/GridRenderer.cs

5.9 TurnBased.UI.HealthBar Class Reference

Shows the health for the given unit.

Inherits MonoBehaviour.

Public Member Functions

• void Initialize (Unit unit, float gridScale)

Initializes a bar for the given unit and grid scale.

5.9.1 Detailed Description

Shows the health for the given unit.

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

• Project/Assets/Scripts/UI/HealthBar.cs

5.10 TurnBased.UI.HealthBarController Class Reference

Controls shown health bars and initializes it.

Inherits MonoBehaviour.

Public Member Functions

void InitializeHealthBarsForUnits (List< Unit > units, float size)
 Initialize health bars for the given unit.

5.10.1 Detailed Description

Controls shown health bars and initializes it.

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

· Project/Assets/Scripts/UI/HealthBarController.cs

5.11 TurnBased.Player.HumanPlayer Class Reference

Gives input control to the human player once he gets the turn.

Inherits TurnBased.Player.Playerbase.

Public Member Functions

- HumanPlayer (GridRenderer gridRenderer, GameplayUlManager manager, List< Unit > units)
- override void StartTurn ()

Show units that can be chosen and wait for cell selected event.

• override void EndTurn ()

Clear Cell Selected Event and propagate end turn to the gameplay manager.

Properties

• override PlayerType Type [get]

Additional Inherited Members

5.11.1 Detailed Description

Gives input control to the human player once he gets the turn.

5.11.2 Member Function Documentation

5.11.2.1 EndTurn()

```
override void TurnBased.Player.HumanPlayer.EndTurn ( ) [virtual]
```

Clear Cell Selected Event and propagate end turn to the gameplay manager.

Reimplemented from TurnBased.Player.Playerbase.

5.11.2.2 StartTurn()

```
override void TurnBased.Player.HumanPlayer.StartTurn ( ) [virtual]
```

Show units that can be chosen and wait for cell selected event.

Reimplemented from TurnBased.Player.Playerbase.

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

• Project/Assets/Scripts/Player/HumanPlayer.cs

5.12 TurnBased.Data.InitialSituation Class Reference

A full game initial state contains different data that is used by the game to initialize first turn.

Inherits ScriptableObject.

Public Attributes

• Vector2Int GridSize

The size of the grid in cells count per axis.

· float CellSize

The Cell scale modifiers, this is to insure a static position in front of static camera.

PlayerType[] Players

The players available at the start of the situation.

• UnitInitialState[] InitialUnits

Units, what player owns it and where it is.

5.12.1 Detailed Description

A full game initial state contains different data that is used by the game to initialize first turn.

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

· Project/Assets/Scripts/Data/InitialSituation.cs

5.13 TurnBased.Player.InputManager Class Reference

Inherits MonoBehaviour.

Properties

• HumanPlayer CurrentPlayer [getset]

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

· Project/Assets/Scripts/Player/InputManager.cs

5.14 TurnBased.UI.MainMenuUIManager Class Reference

Inherits MonoBehaviour.

Public Member Functions

- void ChosenSituationChanged (InitialSituation initialSituation)
- void OnStartGameButtonPressed ()

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

• Project/Assets/Scripts/UI/MainMenuUIManager.cs

5.15 TurnBased.Player.Playerbase Class Reference

Base class for player, controls turn loop once it got the turn.

Inherited by TurnBased.Player.AIPlayer, and TurnBased.Player.HumanPlayer.

Public Member Functions

• Playerbase (List< Unit > units, GameplayUIManager manager, GridRenderer gridRenderer)

Initializes the player and adds the listener so the player knows when a unit is dead from its side.

• virtual void StartTurn ()

Starts the player turn, resets its unit energy and gets the UI ready based on its type.

• virtual void EndTurn ()

Ends Player turn and gives control to the GameplayManager to give control to the next player.

Protected Attributes

- List< Unit > m_myUnits
- GameplayUIManager m_gameplayUIManager
- GridRenderer m_gridRenderer

Properties

• int **Id** [getset]

The index of the player in GameplayManager.

- abstract PlayerType Type [get]
- IEnumerable < Unit > UnitsWithEnergy [get]

Events

· Action TurnEnded

Invoked when the player has ended the turn.

5.15.1 Detailed Description

Base class for player, controls turn loop once it got the turn.

5.15.2 Member Function Documentation

5.15.2.1 EndTurn()

```
virtual void TurnBased.Player.Playerbase.EndTurn ( ) [virtual]
```

Ends Player turn and gives control to the GameplayManager to give control to the next player.

Reimplemented in TurnBased.Player.HumanPlayer.

5.15.2.2 StartTurn()

```
virtual void TurnBased.Player.Playerbase.StartTurn ( ) [virtual]
```

Starts the player turn, resets its unit energy and gets the UI ready based on its type.

Reimplemented in TurnBased.Player.AlPlayer, and TurnBased.Player.HumanPlayer.

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

• Project/Assets/Scripts/Player/Playerbase.cs

5.16 TurnBased.Utils.Singleton< T > Class Template Reference

A utility class that supports singleton design pattern, used for cross scene interactions.

Inherits MonoBehaviour.

Public Member Functions

· virtual void Awake ()

Properties

- static T Instance [get]
- static T SafeInstance [get]

5.16.1 Detailed Description

A utility class that supports singleton design pattern, used for cross scene interactions.

Type Constraints

T: Component

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

• Project/Assets/Scripts/Utils/Singleton.cs

5.17 TurnBased.UI.SituationItemUI Class Reference

Inherits MonoBehaviour.

Public Member Functions

· void Initialize (InitialSituation situation, bool initState)

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

· Project/Assets/Scripts/UI/SituationItemUI.cs

5.18 TurnBased.UI.SituationsLoader Class Reference

Inherits MonoBehaviour.

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

· Project/Assets/Scripts/UI/SituationsLoader.cs

5.19 TurnBased.UI.SkipButton Class Reference

Inherits MonoBehaviour.

Public Member Functions

- void ChangeText (string text)
- · void ChangeButtonState (bool isInteractable)

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

· Project/Assets/Scripts/UI/SkipButton.cs

5.20 TurnBased.Player.SmartAlPlayer Class Reference

A Smarter Al player with deterministic moves instead of random ones.

Inherits TurnBased.Player.AIPlayer.

Public Member Functions

Protected Member Functions

override IEnumerator TurnCoroutine ()
 Controls Turn behavior.

Additional Inherited Members

5.20.1 Detailed Description

A Smarter Al player with deterministic moves instead of random ones.

5.20.2 Member Function Documentation

5.20.2.1 TurnCoroutine()

```
override IEnumerator TurnBased.Player.SmartAIPlayer.TurnCoroutine ( ) [protected], [virtual]
```

Controls Turn behavior.

Reimplemented from TurnBased.Player.AlPlayer.

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

• Project/Assets/Scripts/Player/SmartAIPlayer.cs

5.21 TurnBased.Gameplay.Unit Class Reference

Controls Unit runtime data, current health and available moves.

Inherits MonoBehaviour.

Public Member Functions

- void SetInitialState (UnitSetup setup)
- void InitializeUnitAtCell (Cell cell, float scale, Vector3 rotation)
- void ResetEnergy ()
- void MoveUnitFromTo (Cell currentCell, Cell targetCell, Action onComplete)
- void AttackUnit (Unit targetUnit)
- void TakeDamage (int damage)

Properties

- Vector2Int AttackRange [get]
- Vector2Int Energy [get]
- float HealthPercent [get]
- bool UnitAttacked [get]
- Vector2Int CurrentCellPosition [getset]
- int **OwningPlayer** [getset]

Events

- Action < Action > HealthChanged
- Action UnitDead

5.21.1 Detailed Description

Controls Unit runtime data, current health and available moves.

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

· Project/Assets/Scripts/Gameplay/Unit.cs

5.22 TurnBased.Data.UnitInitialState Struct Reference

Contains the data needed for a unit in initial situation.

Public Attributes

- · int OwningPlayer
- UnitType Type
- · Vector2Int Position

5.22.1 Detailed Description

Contains the data needed for a unit in initial situation.

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

• Project/Assets/Scripts/Data/InitialSituation.cs

5.23 TurnBased.Data.UnitSetup Class Reference

Controls unit data setup, used by UnitsFactory to initialize units on the grid.

Inherits ScriptableObject.

Public Attributes

- Unit Prefab
- UnitType Type
- · string Name
- int Health
- int Damage
- Vector2Int AttackRange
- Vector2Int MoveRange

5.23.1 Detailed Description

Controls unit data setup, used by UnitsFactory to initialize units on the grid.

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

• Project/Assets/Scripts/Data/UnitSetup.cs

5.24 TurnBased.Gameplay.UnitsFactory Class Reference

Inherits MonoBehaviour.

Public Member Functions

- bool InitializeFactory ()
- bool TryInitailizeUnitWithState (UnitInitialState state, out Unit unit)

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

• Project/Assets/Scripts/Gameplay/UnitsFactory.cs

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