Zappy AI

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Chapter 1

Zappy AI

Al of the Zappy project.

2 Zappy Al

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

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Chapter 3

Class Index

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Chapter 4

Class Documentation

4.1 Action.Action Class Reference

Inheritance diagram for Action. Action:

Collaboration diagram for Action. Action:

Static Public Attributes

- str FORWARD = "Forward"
- str RIGHT = "Right"
- str LEFT = "Left"
- str LOOK = "Look"
- str INVENTORY = "Inventory"
- str BROADCAST = "Broadcast"
- str CONNECT_NBR = "Connect_nbr"
- str FORK = "Fork"
- str **EJECT** = "Eject"
- str TAKE = "Take"
- str **SET** = "Set"
- str INCANTATION = "Incantation"
- str NONE = "None"

4.1.1 Detailed Description

```
Action class A class to list the actions the player can do \,
```

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

/home/tjerome-rocher/Desktop/Tek2/Zappy/ai/src/Enum/Action.py

4.2 Al.Al Class Reference

Public Member Functions

- def __init__ (self, host, port, teamName)
- def serverCommunicationInThread (self)
- def run (self)

Public Attributes

- api
- player
- teamName
- · threads

4.2.1 Detailed Description

```
AI class
A class to handle the AI of the Zappy project

Attributes:
    api : API
        the API to communicate with the server
    player : Player
        the player
        teamName : str
        the name of the team

------

Methods:
    __init__(host : str, port : int, teamName : str)
        Constructor of the AI class
    run()
        Run the AI
```

4.2.2 Constructor & Destructor Documentation

4.2.2.1 __init__()

4.2.3 Member Function Documentation

4.2.3.1 run()

4.2.3.2 serverCommunicationInThread()

```
\label{eq:communicationInThread} \mbox{ (} $self \mbox{ )} Handle the communication with the server in a thread
```

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

• /home/tjerome-rocher/Desktop/Tek2/Zappy/ai/src/AI.py

4.3 API.API Class Reference

Public Member Functions

- def __init__ (self, str host, int port)
- · def connect (self)
- def sendData (self, str data, int timeout=None)
- def receiveData (self, float timeout=None)
- def initConnection (self, str teamName, str fileName="")
- def close (self)

4.3.1 Detailed Description

```
APT class
A class to communicate with the server
Attributes :
   host : str
       the host of the server
    port : int
       the port of the server
    inputs : list
       the list of inputs
    outputs : list
       the list of outputs
    sock : socket
       the socket to communicate with the server
Methods :
   sendData(data : str, timeout : int = None)
       send data to the server
    receiveData(timeout : int = None)
       receive data from the server
    connect(team_name : str)
       connect to the server
    close()
       close the connection
```

4.3.2 Constructor & Destructor Documentation

4.3.2.1 __init__()

4.3.3 Member Function Documentation

4.3.3.1 close()

```
def API.API.close ( self \ ) Close the connection with the server
```

4.3.3.2 connect()

```
def API.API.connect ( self\ ) Connect to the server Add the socket to the inputs and outputs lists
```

4.3.3.3 initConnection()

```
def API.API.initConnection (
              self,
              str teamName,
              str fileName = "" )
Function to do the first exchange with the server
Send the team name to the server
Receive the client number and the map size from the server % \left( 1\right) =\left( 1\right) \left( 1\right) 
Print the client number and the map size
Parameters :
    team_name : str
       the name of the team
    fileName : str
        the file name of logs
Returns :
    client_num : int
         the client number
    x : int
        the x size of the map
    y : int
        the y size of the map
```

4.3.3.4 receiveData()

4.3.3.5 sendData()

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

• /home/tjerome-rocher/Desktop/Tek2/Zappy/ai/src/Network/API.py

4.4 APIException.APIException Class Reference

Inheritance diagram for APIException. APIException:

4.5 ArgsException.ArgsException Class Reference

Inheritance diagram for ArgsException.ArgsException:

Collaboration diagram for ArgsException.ArgsException:

Public Member Functions

def __init__ (self, message)

4.5.1 Detailed Description

```
ArgsException class

A class to handle exceptions that can occur in the Args
The ArgsException class inherits from the IError class

Attributes:
    message: str
    the message of the exception
```

4.5.2 Constructor & Destructor Documentation

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

• /home/tjerome-rocher/Desktop/Tek2/Zappy/ai/src/Errors/ArgsException.py

4.6 IError Class Reference

Inheritance diagram for IError.IError:

Collaboration diagram for IError.IError:

Public Member Functions

```
def __init__ (self, message)def __str__ (self)def __repr__ (self)
```

Public Attributes

message

4.6.1 Detailed Description

```
IError class
A class to handle errors that can occur in the project
Attributes :
    message : str
        the message of the error
------
Methods :
    __str__()
        return the message of the error
__repr__()
        return the message of the error
```

4.6.2 Constructor & Destructor Documentation

```
4.6.2.1 __init__()
```

4.6.3 Member Function Documentation

```
4.6.3.1 __repr__()
```

Return the message of the error $% \left(1\right) =\left(1\right) \left(1\right)$

4.6.3.2 __str__()

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

/home/tjerome-rocher/Desktop/Tek2/Zappy/ai/src/Errors/IError.py

4.7 Inventory.Inventory Class Reference

EPITECH PROJECT, 2024 Zappy File description: Inventory.

Public Member Functions

- def __init__ (self, food=10, linemate=0, deraumere=0, sibur=0, mendiane=0, phiras=0, thystame=0, player=0)
- def str (self)
- def toStr (self)
- def __eq__ (self, inventory)
- def __add__ (self, inventory)
- def hasMoreStones (self, "Inventory" inventory)
- def updateInventory (self, str data)
- def updateCaseContent (self, list data)
- def addAnObject (self, str ressource)
- def removeAnObject (self, str ressource)
- def countStones (self)

Public Attributes

- food
- linemate
- deraumere
- sibur
- mendiane
- phiras
- thystame
- player

4.7.1 Detailed Description

EPITECH PROJECT, 2024 Zappy File description: Inventory.

```
Inventory class
A class to handle the inventory of the player
Attributes :
    food : int
       the number of food
    linemate : int
       the number of linemate
    deraumere : int
       the number of deraumere
    sibur : int
       the number of sibur
    mendiane : int
       the number of mendiane
    phiras : int
       the number of phiras
    thystame : int
       the number of thystame
    player : int
       the number of players
_____
Methods :
   ___init___()
       Constructor of the Inventory class
    __str__()
        Print the inventory
    updateInventory(data)
        Update the inventory with the data from the inventory command
    updateCaseContent(data)
       Update the case content with the data from the vision command
    addAnObject(ressource)
       Add an object to the inventory
    removeAnObject(ressource)
        Remove an object from the inventory
```

4.7.2 Constructor & Destructor Documentation

4.7.2.1 init ()

```
def Inventory.Inventory.__init__ (
    self,
    food = 10,
    linemate = 0,
    deraumere = 0,
    sibur = 0,
    mendiane = 0,
    phiras = 0,
    thystame = 0,
    player = 0 )
```

Constructor of the Inventory class

4.7.3 Member Function Documentation

```
4.7.3.1 __add__()
def Inventory.Inventory.__add__ (
             self,
             inventory )
Add two inventories
Parameters :
   inventory : Inventory
       the inventory to add
Returns :
   Inventory
       the self inventory with the inventory added
4.7.3.2 __eq__()
def Inventory.Inventory.__eq__ (
             self,
             inventory )
Compare two inventories
Parameters :
   inventory : Inventory
       the inventory to compare with
Returns :
   bool
        True if the inventories are the same, False otherwise
4.7.3.3 __str__()
def Inventory.Inventory.__str__ (
             self )
Print the inventory
```

4.7.3.4 addAnObject()

4.7.3.5 countStones()

4.7.3.6 hasMoreStones()

4.7.3.7 removeAnObject()

4.7.3.8 toStr()

```
def Inventory.Inventory.toStr ( self )   
Return the inventory as a string  
Returns : str   the inventory as a string
```

4.7.3.9 updateCaseContent()

4.7.3.10 updateInventory()

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

/home/tjerome-rocher/Desktop/Tek2/Zappy/ai/src/Player/Inventory.py

4.8 Item.Item Class Reference

Inheritance diagram for Item. Item:

Collaboration diagram for Item.Item:

Static Public Attributes

```
• str FOOD = "food"
```

- str LINEMATE = "linemate"
- str **DERAUMERE** = "deraumere"
- str SIBUR = "sibur"
- str **MENDIANE** = "mendiane"
- str PHIRAS = "phiras"
- str THYSTAME = "thystame"

4.8.1 Detailed Description

```
Item class A class to list the items in the game % \left\{ 1\right\} =\left\{ 1\right\} =\left
```

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

· /home/tjerome-rocher/Desktop/Tek2/Zappy/ai/src/Enum/Item.py

4.9 Mode.Mode Class Reference

Inheritance diagram for Mode. Mode:

Collaboration diagram for Mode. Mode:

Static Public Attributes

- int **FOOD** = 0
- int **STONES** = 1
- int FORKING = 2
- int **BROADCASTING** = 3
- int **HANDLINGRESPONSE** = 4
- int **WAITING** = 5
- int **ELEVATING** = 6
- int **REGROUP** = 7
- int **DROPPING** = 8
- int **NONE** = 9

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

/home/tjerome-rocher/Desktop/Tek2/Zappy/ai/src/Enum/Mode.py

4.10 Player.Player Class Reference

Public Member Functions

- def init (self)
- def str (self)
- def moveForward (self, callback=None)
- def turnRight (self, callback=None)
- def turnLeft (self, callback=None)
- def look (self, callback=None)
- def cmdInventory (self, callback=None)
- def broadcast (self, str message="Hello", callback=None)
- def connectNbr (self, callback=None)
- def fork (self, callback=None)
- def eject (self, callback=None)
- def take (self, str resource="food", callback=None)
- def set (self, str resource="food", callback=None)
- def incantation (self, callback=None)
- · def none (self)
- def updateVision (self, str vision)
- def updateInventory (self, str inventory)
- def updateBroadcastReceived (self, str message)
- def updateEjectionReceived (self, str message)
- def updateLevel (self, int level)
- def handleElevation (self, str response)
- def hasSomethingHappened (self, str response)
- def handleResponse (self, str response)
- def connectMissingPlayers (self)
- def completeTeam (self)
- def updateModeSlave (self)
- def updateModeLeader (self)
- def updateMode (self)
- def lookingForFood (self)
- def lookingForStones (self)
- def askSlavesForInventory (self)
- def checklfEnoughFood (self, str response)
- def handleResponseBroadcast (self)
- def slavesReponses (self)
- def waitingEveryone (self)
- def waitingDrop (self)
- def dropping (self)
- def regroupAction (self)
- def chooseAction (self)

Public Attributes

- · inventory
- level
- · actions
- currentAction
- commands
- currentCommand
- · callbacks

- currentCallback
- vision
- · broadcastReceived
- · ejectionReceived
- isLeader
- unusedSlots
- · currentlyElevating
- · currentMode
- currentFood
- nbSlaves
- · waitingResponse
- · regroupDirection
- arrived
- isTimed
- nbSlavesHere
- · callback

4.10.1 Detailed Description

```
Player class
A class to handle the player
Attributes :
    inventory : Inventory
       the inventory of the player
    level : int
        the level of the player
    actions : list
        the actions of the player
    currentAction : Action
       the current action of the player
    commands : list
        the commands of the player
    currentCommand : str
        the current command of the player
    callbacks : list
       the callbacks of the player
    currentCallback : function
        the current callback of the player
    vision : list
       the vision of the player
    broadcastReceived : list
        the broadcast received by the player
    ejectionReceived : list
        the ejection received by the player
    isLeader : Role
       if the player is the leader/undefined/slave
    unusedSlots : int
       the unused slots
    currentlyElevating : bool
        if the player is currently elevating
    currentMode : Mode
        the current mode of the player
    currentFood : int
        the current food of the player
    nbSlaves : int
        the number of slaves that are alive
    waitingResponse : bool
        if the player is waiting for a response
    regroupDirection : int
        the direction of the regroup
    arrived : bool
       if the player arrived to the regroup
    \verb|isTimed : bool|\\
        if the player is timed
```

```
Methods :
    __init_
       Constructor of the Player class
    __str__()
       Print the player
    moveForward(callback = None)
       Move the player forward
    turnRight(callback = None)
       Turn the player right
    turnLeft (callback = None)
        Turn the player left
    look(callback = None)
        Look around the player
    cmdInventory(callback = None)
        Get the inventory of the player
    broadcast(message : str = "Hello", callback = None)
       Broadcast a message
    connectNbr(callback = None)
        Connect to the number of players
    fork(callback = None)
        Fork the player
    eject(callback = None)
       Eject the player
    take(resource : str = "food", callback = None)
        Take a resource
    set(resource : str = "food", callback = None)
        Set a resource
    incantation(callback = None)
       Start the incantation
    none()
       Do nothing
    updateVision(vision: str)
        Update the vision of the player
    updateInventory(inventory: str)
        Update the inventory of the player
    updateBroadcastReceived(message : str)
       Update the broadcast received by the player
    updateEjectionReceived(message : str)
        Update the ejection received by the player
    updateLevel(level : int)
        Update the level of the player
    handleElevation(response : str)
        Handle the elevation
    hasSomethingHappened(response : str)
        Check if something happened
    handleResponse (response : str)
       Handle the response
    connectMissingPlayers()
       Connect the missing players
    completeTeam()
        Complete the team
    updateModeSlave()
        Update the mode of the player when he is a slave
    updateModeLeader()
       Update the mode of the player when he is a leader
    updateMode()
        Update the mode of the player
    lookingForFood()
        Look for food
    lookingForStones()
        Look for stones
    askSlavesForInventory()
       Ask the slaves for their inventory
    checkIfEnoughFood(response : str)
        Check if the slave has enough food
    handleResponseBroadcast()
        Handle the response of the broadcast
    slavesReponses()
       Handle the leader order as a slave
    waitingEveryone()
```

```
Wait for everyone to finish the regroup
waitingDrop()
    Wait for everyone to finish droping the stones
dropping()
    Drop the stones
regroupAction()
    Regroup the players
chooseAction()
    Choose the action of the player
```

4.10.2 Constructor & Destructor Documentation

4.10.2.1 __init__()

Constructor of the Player class

4.10.3 Member Function Documentation

4.10.3.1 __str__()

4.10.3.2 askSlavesForInventory()

```
def Player.Player.askSlavesForInventory ( self\ ) Ask the slaves for their inventory The leader will ask the slaves for their inventory
```

4.10.3.3 broadcast()

4.10.3.4 checklfEnoughFood()

```
def Player.Player.checkIfEnoughFood ( self, \\ str\ response\ ) Check if the slave has enough food to survive the regroup
```

4.10.3.5 chooseAction()

```
def Player.Player.chooseAction ( self\ ) Choose the action of the player The action is chosen depending on the mode of the player The mode is updated before choosing the action
```

4.10.3.6 cmdInventory()

4.10.3.7 completeTeam()

```
def Player.Player.completeTeam ( self \ ) Complete the team
```

4.10.3.8 connectMissingPlayers()

```
def Player.Player.connectMissingPlayers ( self \ ) Connect the missing players
```

4.10.3.9 connectNbr()

4.10.3.10 dropping()

```
def Player.Player.dropping ( self\ ) Drop the stones As a leader, you will wait for the slaves to drop the stones As a slave, you will drop the stones until you have none left
```

4.10.3.11 eject()

4.10.3.12 fork()

4.10.3.13 handleElevation()

4.10.3.14 handleResponse()

4.10.3.15 handleResponseBroadcast()

```
def Player.Player.handleResponseBroadcast ( self \ ) Handle the response of the broadcast
```

4.10.3.16 hasSomethingHappened()

4.10.3.17 incantation()

4.10.3.18 look()

4.10.3.19 lookingForFood()

```
def Player.Player.lookingForFood ( self\ ) Look for food The player will look for the nearest food in his vision. When he finds food, he will go to the case where there is food and take it.
```

4.10.3.20 lookingForStones()

```
def Player.Player.lookingForStones ( self\ ) Look for stones The player will look for the case with the most stones in his vision. When he finds stones, he will go to the case where there are stones and take them.
```

4.10.3.21 moveForward()

4.10.3.22 none()

```
def Player.Player.none ( self \ ) \\ Set the current action to none
```

4.10.3.23 regroupAction()

```
def Player.Player.regroupAction ( self\ ) Regroup the players As a leader, you will wait for the slaves to regroup As a slave, you will regroup with the leader
```

4.10.3.24 set()

4.10.3.25 slavesReponses()

```
def Player.Player.slavesReponses ( self \ ) Handle the leader order as a slave
```

4.10.3.26 take()

4.10.3.27 turnLeft()

4.10.3.28 turnRight()

4.10.3.29 updateBroadcastReceived()

4.10.3.30 updateEjectionReceived()

4.10.3.31 updateInventory()

4.10.3.32 updateLevel()

4.10.3.33 updateMode()

```
\label{eq:continuous} $\operatorname{def Player.Player.updateMode} \ ($\operatorname{\it self}$ ) Update the mode of the player
```

4.10.3.34 updateModeLeader()

```
\begin{tabular}{ll} \tt def Player.Player.updateModeLeader ( \\ self ) \end{tabular}
```

Update the mode of the player when he is a leader

4.10.3.35 updateModeSlave()

```
def Player.Player.updateModeSlave ( self \ ) Update the mode of the player when he is a slave
```

4.10.3.36 updateVision()

4.10.3.37 waitingDrop()

```
def Player.Player.waitingDrop ( self \ ) Wait for everyone to finish droping the stones
```

4.10.3.38 waitingEveryone()

```
def Player.Player.waitingEveryone ( self \ ) Wait for everyone to finish the regroup
```

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

/home/tjerome-rocher/Desktop/Tek2/Zappy/ai/src/Player/Player.py

4.11 PlayerException.PlayerDeathException Class Reference

Inheritance diagram for PlayerException.PlayerDeathException:

Collaboration diagram for PlayerException.PlayerDeathException:

Public Member Functions

```
• def __init__ (self, message)
```

```
• def __init__ (self, message)
```

4.11.1 Detailed Description

```
PlayerDeathException class

A class to handle the death of the player

The PlayerDeathException class inherits from the PlayerException class

Attributes:

message: str
the message of the exception
```

4.11.2 Constructor & Destructor Documentation

Reimplemented from PlayerException.PlayerException.

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

• /home/tjerome-rocher/Desktop/Tek2/Zappy/ai/src/Player/PlayerException.py

4.12 PlayerException.PlayerException Class Reference

Inheritance diagram for PlayerException.PlayerException:

Collaboration diagram for PlayerException.PlayerException:

Public Member Functions

```
    def __init__ (self, message)
```

4.12.1 Detailed Description

```
PlayerException class

A class to handle exceptions that can occur in the Player
The PlayerException class inherits from the IError class

Attributes:
    message: str
    the message of the exception
```

4.12.2 Constructor & Destructor Documentation

Reimplemented in PlayerException.PlayerDeathException.

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

/home/tjerome-rocher/Desktop/Tek2/Zappy/ai/src/Player/PlayerException.py

4.13 Role.Role Class Reference

Inheritance diagram for Role. Role:

Collaboration diagram for Role.Role:

Static Public Attributes

- int **UNDEFINED** = 0
- int LEADER = 1
- int **SLAVE** = 2

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

/home/tjerome-rocher/Desktop/Tek2/Zappy/ai/src/Enum/Role.py

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