Zappy AI

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

API.API	. 5
Exception	
IError.IError	8
IError	
APIException.APIException	8
ArgsException ArgsException	8

2 Hierarchical Index

Chapter 2

Class Index

2.1 Class List

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

API.API	5
APIException.APIException	8
ArgsException.ArgsException	8
IError IError	۶

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Chapter 3

Class Documentation

3.1 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, int timeout=None)
- def initConnection (self, str teamName)
- def close (self)

3.1.1 Detailed Description

```
API 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
```

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3.1.2 Constructor & Destructor Documentation

3.1.2.1 __init__()

3.1.3 Member Function Documentation

3.1.3.1 close()

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

3.1.3.2 connect()

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

3.1.3.3 initConnection()

```
def API.API.initConnection (
            str teamName )
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
Print the client number and the map size
Parameters :
   team_name : str
       the name of the team
Returns :
   client_num : int
       the client number
    x : int
       the x size of the map
    y : int
        the y size of the map
```

3.1.3.4 receiveData()

3.1.3.5 sendData()

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

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

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3.2 APIException.APIException Class Reference

Inheritance diagram for APIException. APIException:

3.3 ArgsException.ArgsException Class Reference

Inheritance diagram for ArgsException.ArgsException:

Collaboration diagram for ArgsException.ArgsException:

Public Member Functions

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

3.3.1 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
```

3.3.2 Constructor & Destructor Documentation

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

 $\bullet \ \ / home/tjerome-rocher/Desktop/Tek2/Zappy/ai/src/Errors/ArgsException.py$

3.4 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

3.4.1 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
```

3.4.2 Constructor & Destructor Documentation

```
3.4.2.1 init ()
```

3.4.3 Member Function Documentation

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3.4.3.1 __repr__()

Return the message of the error

3.4.3.2 __str__()

Return the message of the error

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

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

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