

EntrySat

Generated by Doxygen 1.8.8

Tue May 10 2016 14:54:10

Contents

1	Class Index	1
1.1	Class List	1
2	Class Documentation	3
2.1	ButtonRadio.ButtonRadio Class Reference	3
2.1.1	Detailed Description	3
2.2	client_server.Client.Client Class Reference	3
2.2.1	Detailed Description	4
2.2.2	Constructor & Destructor Documentation	4
2.2.2.1	__init__	4
2.2.3	Member Function Documentation	4
2.2.3.1	close_socket	4
2.2.3.2	connect	4
2.2.3.3	send_message	4
2.3	ConfigurationServer.ConfigurationServer Class Reference	5
2.4	Buton.ConnectButon Class Reference	5
2.4.1	Detailed Description	6
2.5	EntryText.EntryText Class Reference	6
2.5.1	Detailed Description	6
2.6	FramePerso.FramePerso Class Reference	6
2.6.1	Detailed Description	7
2.7	scrollField.scrollField Class Reference	7
2.8	Buton.SendButton Class Reference	7
2.8.1	Detailed Description	7
2.9	Buton.SendSaleaeButton Class Reference	8
2.9.1	Detailed Description	8
2.10	client_server.SerialSender.SerialSender Class Reference	8
2.10.1	Detailed Description	8
2.10.2	Constructor & Destructor Documentation	9
2.10.2.1	__init__	9
2.10.3	Member Function Documentation	9

2.10.3.1	run	9
2.11	client_server.PiServer.Server Class Reference	9
2.11.1	Detailed Description	9
2.11.2	Constructor & Destructor Documentation	9
2.11.2.1	__init__	9
2.11.3	Member Function Documentation	10
2.11.3.1	listen	10
2.12	SpinboxClass.SpinboxClass Class Reference	10
2.12.1	Detailed Description	10

Chapter 1

Class Index

1.1 Class List

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

ButtonRadio.ButtonRadio	3
client_server.Client.Client This client transmits commands from the GUI to the server	3
ConfigurationServer.ConfigurationServer	5
Buton.ConnectButon	5
EntryText.EntryText	6
FramePerso.FramePerso	6
scrollField.scrollField	7
Buton.SendButton	7
Buton.SendSaleaeButton	8
client_server.SerialSender.SerialSender This class runs a thread which sends the serial packets	8
client_server.PiServer.Server This is the server which waits for connection with the client and accepts the transmitted com- mands	9
SpinboxClass.SpinboxClass	10

Chapter 2

Class Documentation

2.1 ButtonRadio.ButtonRadio Class Reference

Public Member Functions

- def `__init__`
- def `getValue`
- def `changeConfigAssociateField`
- def `getChoice`
- def `getValueOFAssociateField`

Public Attributes

- `name`
- `value`
- `optionValue`
- `associate_field`
- `list_option`

2.1.1 Detailed Description

docstring for ButtonRadio

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

- `/home/marc/repositories/cubesatGit/Projet-Tutore-Cubsat-Insa-Toulouse/GUI-AND-CLIENT-SERVE↵
R/ButtonRadio.py`

2.2 client_server.Client.Client Class Reference

This client transmits commands from the GUI to the server.

Public Member Functions

- def `__init__`
- def `connect`

Establishes the connection to the server.

- def [send_message](#)
Sends the passed values to the connected server.
- def [close_socket](#)
Closes the connection to the server.

Public Attributes

- **sock**
- **server_address**

2.2.1 Detailed Description

This client transmits commands from the GUI to the server.

2.2.2 Constructor & Destructor Documentation

2.2.2.1 `def client_server.Client.Client.__init__(self, name, port)`

Parameters

<i>name</i>	The name can either be a hostname or an ip address
<i>port</i>	The port on which the server is running.

2.2.3 Member Function Documentation

2.2.3.1 `def client_server.Client.Client.close_socket (self)`

Closes the connection to the server.

2.2.3.2 `def client_server.Client.Client.connect (self)`

Establishes the connection to the server.

Returns

True if connected, False if an error occurred

2.2.3.3 `def client_server.Client.Client.send_message (self, packet_number, protocol, time)`

Sends the passed values to the connected server.

Parameters

<i>packet_number</i>	Number of serial packets that should be send
<i>protocol</i>	Type of serial protocol. Defined in the PiServer class.
<i>time</i>	time between sending of the serial packets.

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

- `/home/marc/repositories/cubesatGit/Projet-Tutore-Cubsat-Insa-Toulouse/GUI-AND-CLIENT-SERVE↔
R/client_server/Client.py`

2.3 ConfigurationServer.ConfigurationServer Class Reference

Public Member Functions

- def **__init__**
- def **get_ip**
- def **get_port**
- def **set_ip**
- def **set_port**
- def **set_protocole**
- def **get_protocol**
- def **set_packet_number**
- def **get_packet_number**
- def **set_packet_time**
- def **connect**
- def **disconnect**
- def **send_mes**

Public Attributes

- **ip**
- **port**
- **client**
- **protocol**
- **time**
- **packet_number**

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

- `/home/marc/repositories/cubesatGit/Projet-Tutore-Cubsat-Insa-Toulouse/GUI-AND-CLIENT-SERVE↵
R/ConfigurationServer.py`

2.4 Buton.ConnectButon Class Reference

Public Member Functions

- def **__init__**
- def **connect**
- def **disconnect**
- def **isConnected**

Public Attributes

- **ip_field**
- **port_field**
- **widget_list**
- **config**
- **name**
- **is_connected**
- **client_server**
- **b1**

2.4.1 Detailed Description

class for a Buton

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

- [/home/marc/repositories/cubesatGit/Projet-Tutore-Cubsat-Insa-Toulouse/GUI-AND-CLIENT-SERVE↵R/Buton.py](#)

2.5 EntryText.EntryText Class Reference

Public Member Functions

- def **__init__**
- def **get_value**
- def **get_int_value**
- def **hide**
- def **show**
- def **notEditable**

Public Attributes

- **window**
- **name**
- **position**
- **champ**
- **y**
- **value**

2.5.1 Detailed Description

class for input user

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

- [/home/marc/repositories/cubesatGit/Projet-Tutore-Cubsat-Insa-Toulouse/GUI-AND-CLIENT-SERVE↵R/EntryText.py](#)

2.6 FramePerso.FramePerso Class Reference

Public Member Functions

- def **__init__**
- def **show**
- def **hide**
- def **getFrame**

Public Attributes

- **name**
- **position**
- **frame**

2.6.1 Detailed Description

docstring for Frame

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

- /home/marc/repositories/cubesatGit/Projet-Tutore-Cubsat-Insa-Toulouse/GUI-AND-CLIENT-SERVE↔
R/FramePerso.py

2.7 scrollField.scrollField Class Reference

Public Member Functions

- def **__init__**
- def **getChoice**

Public Attributes

- **OPTIONS**
- **variable**
- **w**
- **label**

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

- /home/marc/repositories/cubesatGit/Projet-Tutore-Cubsat-Insa-Toulouse/GUI-AND-CLIENT-SERVE↔
R/scrollField.py

2.8 Buton.SendButton Class Reference

Public Member Functions

- def **__init__**
- def **send**
- def **show**

Public Attributes

- **nb_packet**
- **time_packet**
- **config**
- **position**
- **scrollChoice**
- **b1**

2.8.1 Detailed Description

class for a Button

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

- /home/marc/repositories/cubesatGit/Projet-Tutore-Cubsat-Insa-Toulouse/GUI-AND-CLIENT-SERVE↔
R/Buton.py

2.9 Buton.SendSaleaeButton Class Reference

Public Member Functions

- def `__init__`
- def `send`

Public Attributes

- `name`
- `Nb_Analog_chan`
- `Nb_dig_chan`
- `Analog_sample_rate`
- `Dig_sample_rate`
- `triggerChoice`
- `cap_time_or_sample_number`
- `position`
- `b1`

2.9.1 Detailed Description

`docstring for SendSaleaeButton`

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

- `/home/marc/repositories/cubesatGit/Projet-Tutore-Cubsat-Insa-Toulouse/GUI-AND-CLIENT-SERVER/Buton.py`

2.10 client_server.SerialSender.SerialSender Class Reference

This class runs a thread which sends the serial packets.

Public Member Functions

- def `__init__`
Tries to use the ttyAMA0 connection.
- def `run`
The thread function which sends the packets.

Public Attributes

- `message_queue`
- `port`
- `debug`

2.10.1 Detailed Description

This class runs a thread which sends the serial packets.

2.10.2 Constructor & Destructor Documentation

2.10.2.1 def client_server.SerialSender.SerialSender.__init__(self, message_queue)

Tries to use the ttyAMA0 connection.

If it is not available the class will run in a debug mode which is not actually sending packages.

Parameters

<i>message_queue</i>	The synchronized message queue to communicate with the Server class
----------------------	---

2.10.3 Member Function Documentation

2.10.3.1 def client_server.SerialSender.SerialSender.run(self, args, args2)

The thread function which sends the packets.

Parameters

<i>args</i>	Not used, only needed because of python standards
<i>args2</i>	Not used, only needed because of python standards

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

- /home/marc/repositories/cubesatGit/Projet-Tutore-Cubsat-Insa-Toulouse/GUI-AND-CLIENT-SERVER/client_server/SerialSender.py

2.11 client_server.PiServer.Server Class Reference

This is the server which waits for connection with the client and accepts the transmitted commands.

Public Member Functions

- def [__init__](#)
- def [listen](#)

Starts up the server and waits for connection of a client.

Public Attributes

- **sock**
- **server_address**
- **message_queue**

2.11.1 Detailed Description

This is the server which waits for connection with the client and accepts the transmitted commands.

2.11.2 Constructor & Destructor Documentation

2.11.2.1 def client_server.PiServer.Server.__init__(self, name, port, message_queue)

Parameters

<i>name</i>	Server name or ip
<i>port</i>	Port on which the server should be opened
<i>message_queue</i>	Synchronized message queue to communicate which the SerialSender class

2.11.3 Member Function Documentation

2.11.3.1 `def client_server.PiServer.Server.listen (self)`

Starts up the server and waits for connection of a client.

Incoming message are saved in the message queue. The actual sending of the packets is done by another thread from the SerialSender class.

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

- `/home/marc/repositories/cubesatGit/Projet-Tutore-Cubsat-Insa-Toulouse/GUI-AND-CLIENT-SERVE↵
R/client_server/PiServer.py`

2.12 SpinboxClass.SpinboxClass Class Reference

Public Member Functions

- `def __init__`
- `def getValue`
- `def hide`
- `def show`
- `def changeConfig`

Public Attributes

- `name`
- `maxValue`
- `minValue`
- `position`
- `label`
- `spin`

2.12.1 Detailed Description

docstring for SpinboxClass

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

- `/home/marc/repositories/cubesatGit/Projet-Tutore-Cubsat-Insa-Toulouse/GUI-AND-CLIENT-SERVE↵
R/SpinboxClass.py`