

Code_generator

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Chapter 1

Namespace Index

1.1 Packages

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

common	5
xmlParser	5

Chapter 2

Class Index

2.1 Class List

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

common.ErrorCode	7
common.Features	7
xmlParser.Pin	9
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Chapter 3

Namespace Documentation

3.1 Package common

Classes

- enum [ErrorCode](#)
- class [Features](#)

3.1.1 Detailed Description

Common information that needs to be accessed across all the project

Author

Miguel Diaz

Version

0.1

3.2 Package xmlParser

Classes

- class [Pin](#)
- class [TestMain](#)
- class [XmlOpener](#)

3.2.1 Detailed Description

XML parser for microcontroller information and project settings

Author

Miguel Diaz

Version

0.1

Chapter 4

Class Documentation

4.1 common.ErrorCode Enum Reference

Public Attributes

- [NO_ERROR](#)

4.1.1 Member Data Documentation

4.1.1.1 NO_ERROR

`common.ErrorCode.NO_ERROR`

No error message

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

- `src/common/ErrorCode.java`

4.2 common.Features Class Reference

Static Public Attributes

- static final boolean [DEBUG](#) = false
- static final boolean [VERBOSE](#) = true
- static final String [VERBOSE_STR](#) = "# "
- static final String [DEBUG_STR](#) = "#\$ "

4.2.1 Detailed Description

Class that includes all project features

Author

Miguel Diaz

Version

0.1

4.2.2 Member Data Documentation

4.2.2.1 DEBUG

```
final boolean common.Features.DEBUG = false [static]
```

Enables debug functions

4.2.2.2 DEBUG_STR

```
final String common.Features.DEBUG_STR = "$ " [static]
```

Debug messages indicator on system console

4.2.2.3 VERBOSE

```
final boolean common.Features.VERBOSE = true [static]
```

Enables console messages

4.2.2.4 VERBOSE_STR

```
final String common.Features.VERBOSE_STR = "# " [static]
```

Verbose messages indicator on system console

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

- src/common/Features.java

4.3 xmlParser.Pin Class Reference

Public Member Functions

- [Pin](#) ()
- void [setFunc_vcc](#) (boolean funcState)
- boolean [getFunc_vcc](#) ()
- void [setFunc_gnd](#) (boolean funcState)
- boolean [getFunc_gnd](#) ()
- void [setFunc_gpio](#) (boolean funcState)
- boolean [getFunc_gpio](#) ()
- void [setFeat_int](#) (boolean featState)
- boolean [getFeat_int](#) ()
- void [setFeat_adc](#) (boolean featState)
- boolean [getFeat_adc](#) ()
- void [setFeat_uart](#) (boolean featState)
- boolean [getFeat_uart](#) ()
- void [setFeat_i2c](#) (boolean featState)
- boolean [getFeat_i2c](#) ()
- void [setFeat_spi](#) (boolean featState)
- boolean [getFeat_spi](#) ()
- void [setFeat_clock](#) (boolean featState)
- boolean [getFeat_clock](#) ()
- void [setFeat_timer](#) (boolean featState)
- boolean [getFeat_timer](#) ()
- void [setFeat_reset](#) (boolean featState)
- boolean [getFeat_reset](#) ()
- void [setInt](#) (String feature)
- String [getInt](#) ()
- void [setAdc](#) (String feature)
- String [getAdc](#) ()
- void [setUart](#) (String feature)
- String [getUart](#) ()
- void [setI2c](#) (String feature)
- String [getI2c](#) ()
- void [setSpi](#) (String feature)
- String [getSpi](#) ()
- void [setClock](#) (String feature)
- String [getClock](#) ()
- void [setReset](#) (String feature)
- String [getReset](#) ()
- void [setTimer](#) (String feature)
- String [getTimer](#) ()
- void [setName](#) (String pinName)
- String [getName](#) ()
- void [setNumber](#) (int pinNum)
- int [getNumber](#) ()
- void [setPort](#) (String pinPort)
- String [getPort](#) ()

Static Public Attributes

- static final boolean [ENABLE](#) = true
- static final boolean [DISABLE](#) = false
- static final boolean [DEF_FUNCTION](#) = DEF_BOOLEAN
- static final boolean [DEF_FEATURE_AV](#) = DEF_BOOLEAN
- static final String [DEF_FEATURE](#) = DEF_STRING
- static final String [DEF_NAME](#) = DEF_STRING
- static final int [DEF_NUMBER](#) = DEF_INT
- static final String [DEF_PORT](#) = DEF_STRING

4.3.1 Detailed Description

Basic pin object.

- [Pin](#) necessary characteristics:
 - Name
 - Number
- [Pin](#) optional characteristics:
 - Port
- [Pin](#) main functions:
 - VCC
 - GND
 - GPIO
- [Pin](#) features:
 - Interruption
 - ADC
 - UART
 - I2C
 - SPI
 - Clock
 - Reset

Author

Miguel Diaz

Version

0.1

4.3.2 Constructor & Destructor Documentation

4.3.2.1 Pin()

```
xmlParser.Pin.Pin ( )
```

Initialize all pin's characteristics and features to their default values

4.3.3 Member Function Documentation

4.3.3.1 getAdc()

```
String xmlParser.Pin.getAdc ( )
```

Get the pin's ADC name

Returns

Pin's ADC

4.3.3.2 getClock()

```
String xmlParser.Pin.getClock ( )
```

Get the pin's clock name

Returns

Pin's clock

4.3.3.3 getFeat_adc()

```
boolean xmlParser.Pin.getFeat_adc ( )
```

See if the pin has an ADC

Returns

Feature availability

4.3.3.4 getFeat_clock()

```
boolean xmlParser.Pin.getFeat_clock ( )
```

See if the pin supports a clock

Returns

Feature availability

4.3.3.5 getFeat_i2c()

```
boolean xmlParser.Pin.getFeat_i2c ( )
```

See if the pin has I2C

Returns

Feature availability

4.3.3.6 getFeat_int()

```
boolean xmlParser.Pin.getFeat_int ( )
```

See if the pin has an interruption

Returns

Feature availability

4.3.3.7 getFeat_reset()

```
boolean xmlParser.Pin.getFeat_reset ( )
```

See if the pin has a reset feature

Returns

Feature availability

4.3.3.8 getFeat_spi()

```
boolean xmlParser.Pin.getFeat_spi ( )
```

See if the pin has SPI

Returns

Feature availability

4.3.3.9 getFeat_timer()

```
boolean xmlParser.Pin.getFeat_timer ( )
```

See if the pin supports a timer

Returns

Feature availability

4.3.3.10 getFeat_uart()

```
boolean xmlParser.Pin.getFeat_uart ( )
```

See if the pin has a UART

Returns

Feature availability

4.3.3.11 getFunc_gnd()

```
boolean xmlParser.Pin.getFunc_gnd ( )
```

See if the pin is GND

Returns

Function availability

4.3.3.12 `getFunc_gpio()`

```
boolean xmlParser.Pin.getFunc_gpio ( )
```

See if the pin is GPIO

Returns

Function availability

4.3.3.13 `getFunc_vcc()`

```
boolean xmlParser.Pin.getFunc_vcc ( )
```

See if the pin is Vcc

Returns

Function availability

4.3.3.14 `getI2c()`

```
String xmlParser.Pin.getI2c ( )
```

Get the pin's I2C name

Returns

[Pin's I2C](#)

4.3.3.15 `getInt()`

```
String xmlParser.Pin.getInt ( )
```

Get the pin's interruption name

Returns

[Pin's interruption](#)

4.3.3.16 getName()

```
String xmlParser.Pin.getName ( )
```

Get the pin's name

Returns

Pin's name

4.3.3.17 getNumber()

```
int xmlParser.Pin.getNumber ( )
```

Get the pin's number

Returns

Pin's number

4.3.3.18 getPort()

```
String xmlParser.Pin.getPort ( )
```

Get the pin's port

Returns

Pin's port

4.3.3.19 getReset()

```
String xmlParser.Pin.getReset ( )
```

Get the pin's reset name

Returns

Pin's reset

4.3.3.20 `getSpi()`

```
String xmlParser.Pin.getSpi ( )
```

Get the pin's SPI name

Returns

[Pin's SPI](#)

4.3.3.21 `getTimer()`

```
String xmlParser.Pin.getTimer ( )
```

Get the pin's timer name

Returns

[Pin's timer](#)

4.3.3.22 `getUart()`

```
String xmlParser.Pin.getUart ( )
```

Get the pin's UART name

Returns

[Pin's UART](#)

4.3.3.23 `setAdc()`

```
void xmlParser.Pin.setAdc (
    String feature )
```

Set the pin's ADC

Parameters

<i>feature</i>	Pin's ADC
----------------	---------------------------

4.3.3.24 setClock()

```
void xmlParser.Pin.setClock (
    String feature )
```

Set the pin's clock

Parameters

<i>feature</i>	Pin's clock
----------------	-------------

4.3.3.25 setFeat_adc()

```
void xmlParser.Pin.setFeat_adc (
    boolean featState )
```

Set the pin's ADC feature

Parameters

<i>featState</i>	Feature availability
------------------	----------------------

4.3.3.26 setFeat_clock()

```
void xmlParser.Pin.setFeat_clock (
    boolean featState )
```

Set the pin's Clock feature

Parameters

<i>featState</i>	Feature availability
------------------	----------------------

4.3.3.27 setFeat_i2c()

```
void xmlParser.Pin.setFeat_i2c (
    boolean featState )
```

Set the pin's I2C feature

Parameters

<i>featState</i>	Feature availability
------------------	----------------------

4.3.3.28 setFeat_int()

```
void xmlParser.Pin.setFeat_int (
    boolean featState )
```

Set the pin's interruption feature

Parameters

<i>featState</i>	Feature availability
------------------	----------------------

4.3.3.29 setFeat_reset()

```
void xmlParser.Pin.setFeat_reset (
    boolean featState )
```

Set the pin's reset feature

Parameters

<i>featState</i>	Feature availability
------------------	----------------------

4.3.3.30 setFeat_spi()

```
void xmlParser.Pin.setFeat_spi (
    boolean featState )
```

Set the pin's SPI feature

Parameters

<i>featState</i>	Feature availability
------------------	----------------------

4.3.3.31 setFeat_timer()

```
void xmlParser.Pin.setFeat_timer (
    boolean featState )
```

Set the pin's timer feature

Parameters

<i>featState</i>	Feature availability
------------------	----------------------

4.3.3.32 setFeat_uart()

```
void xmlParser.Pin.setFeat_uart (
    boolean featState )
```

Set the pin's UART feature

Parameters

<i>featState</i>	Feature availability
------------------	----------------------

4.3.3.33 setFunc_gnd()

```
void xmlParser.Pin.setFunc_gnd (
    boolean funcState )
```

Set the pin to GND status

Parameters

<i>funcState</i>	Function availability
------------------	-----------------------

4.3.3.34 setFunc_gpio()

```
void xmlParser.Pin.setFunc_gpio (
    boolean funcState )
```

Set the pin to GPIO status

Parameters

<i>funcState</i>	Function availability
------------------	-----------------------

4.3.3.35 setFunc_vcc()

```
void xmlParser.Pin.setFunc_vcc (
    boolean funcState )
```

Set the pin to Vcc status

Parameters

<i>funcState</i>	Function availability
------------------	-----------------------

4.3.3.36 setI2c()

```
void xmlParser.Pin.setI2c (
    String feature )
```

Set the pin's I2C

Parameters

<i>feature</i>	Pin's I2C
----------------	---------------------------

4.3.3.37 setInt()

```
void xmlParser.Pin.setInt (
    String feature )
```

Set the pin's interruption

Parameters

<i>feature</i>	Pin's interruption
----------------	------------------------------------

4.3.3.38 setName()

```
void xmlParser.Pin.setName (
    String pinName )
```

Set the pin's name

Parameters

<i>pinName</i>	Pin's name
----------------	----------------------------

4.3.3.39 setNumber()

```
void xmlParser.Pin.setNumber (
    int pinNum )
```

Set the pin's number

Parameters

<i>pinNum</i>	Pin's number
---------------	------------------------------

4.3.3.40 setPort()

```
void xmlParser.Pin.setPort (
    String pinPort )
```

Set the pin's port

Parameters

<i>pinPort</i>	Pin's port
----------------	------------

4.3.3.41 setReset()

```
void xmlParser.Pin.setReset (
    String feature )
```

Set the pin's reset

Parameters

<i>feature</i>	Pin's reset
----------------	-------------

4.3.3.42 setSpi()

```
void xmlParser.Pin.setSpi (
    String feature )
```

Set the pin's SPI

Parameters

<i>feature</i>	Pin's SPI
----------------	-----------

4.3.3.43 setTimer()

```
void xmlParser.Pin.setTimer (
    String feature )
```

Set the pin's timer

Parameters

<i>feature</i>	Pin's timer
----------------	-------------

4.3.3.44 setUart()

```
void xmlParser.Pin.setUart (
    String feature )
```

Set the pin's UART

Parameters

<i>feature</i>	Pin's UART
----------------	------------

4.3.4 Member Data Documentation

4.3.4.1 DEF_FEATURE

```
final String xmlParser.Pin.DEF_FEATURE = DEF_STRING [static]
```

Default value for pin's feature as not available

4.3.4.2 DEF_FEATURE_AV

```
final boolean xmlParser.Pin.DEF_FEATURE_AV = DEF_BOOLEAN [static]
```

Default value for pin's feature availability as not available

4.3.4.3 DEF_FUNCTION

```
final boolean xmlParser.Pin.DEF_FUNCTION = DEF_BOOLEAN [static]
```

Default value for pin's function as not enabled

4.3.4.4 DEF_NAME

```
final String xmlParser.Pin.DEF_NAME = DEF_STRING [static]
```

Default value for pin's name

4.3.4.5 DEF_NUMBER

```
final int xmlParser.Pin.DEF_NUMBER = DEF_INT [static]
```

Default value for pin's number

4.3.4.6 DEF_PORT

```
final String xmlParser.Pin.DEF_PORT = DEF_STRING [static]
```

Default value for pin's port

4.3.4.7 DISABLE

```
final boolean xmlParser.Pin.DISABLE = false [static]
```

Disable value for features and functions

4.3.4.8 ENABLE

```
final boolean xmlParser.Pin.ENABLE = true [static]
```

Enable value for features and functions

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

- src/xmlParser/Pin.java

4.4 xmlParser.TestMain Class Reference

Static Public Member Functions

- static void [main](#) (String[] openOption)

4.4.1 Detailed Description

Dummy main class for testing the other classes

Author

Miguel Diaz

4.4.2 Member Function Documentation

4.4.2.1 main()

```
static void xmlParser.TestMain.main (  
    String [] openOption ) [static]
```

Main without GUI

Parameters

<i>openOption</i>	Options include:
-------------------	---------------------

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

- `src/xmlParser/TestMain.java`

4.5 xmlParser.XmlOpener Class Reference

Public Member Functions

- [XmlOpener](#) ()
- [ErrorCode OpenFile](#) (String fileName)
- String [getUc_model](#) ()
- String [getUc_manufacturer](#) ()
- int [getUc_pinNum](#) ()

4.5.1 Detailed Description

Author

H112943

Version

0.1

4.5.2 Constructor & Destructor Documentation

4.5.2.1 XmlOpener()

```
xmlParser.XmlOpener.XmlOpener ( )
```

Constructor

4.5.3 Member Function Documentation

4.5.3.1 getUc_manufacturer()

```
String xmlParser.XmlOpener.getUc_manufacturer ( )
```

Get the microcontroller's manufacturer

Returns

Microcontroller's manufacturer

4.5.3.2 getUc_model()

```
String xmlParser.XmlOpener.getUc_model ( )
```

Get the microcontroller's model

Returns

Microcontroller's model

4.5.3.3 getUc_pinNum()

```
int xmlParser.XmlOpener.getUc_pinNum ( )
```

Get the microcontroller's pins number

Returns

Number of pins

4.5.3.4 OpenFile()

```
ErrorCode xmlParser.XmlOpener.OpenFile (
    String fileName )
```

Open the XML file

Parameters

<i>fileName</i>	Complete path and name of XML file
-----------------	------------------------------------

Returns

Error code

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

- src/xmlParser/XmlOpener.java

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