Code_generator

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Class Index

2.1 Class List

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common.Features 7
microcontroller.Microcontroller 9
microcontroller.Pin 11
xmlParser.TestMain 30
xmlParser.XmlOpener 31

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 microcontroller

Classes

- class Microcontroller
- class Pin

3.2.1 Detailed Description

Microcontroller related classes

Author

Miguel Diaz

Version

0.1

3.3 Package xmlParser

Classes

- class TestMain
- class XmlOpener

3.3.1 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 microcontroller.Microcontroller Class Reference

Public Member Functions

- Microcontroller (Document ucDoc)
- ErrorCode processDocument ()
- Pin getPin (int pinNum)
- String getUc_model ()
- String getUc_manufacturer ()
- int getUc_pinNum ()

4.3.1 Detailed Description

Microcontroller related methods

Author

Miguel Diaz

Version

0.1

4.3.2 Constructor & Destructor Documentation

4.3.2.1 Microcontroller()

```
microcontroller.Microcontroller.Microcontroller (
            Document ucDoc )
```

Constructor

Parameters

ucDoc	Document obtained from XML file

4.3.3 Member Function Documentation

4.3.3.1 getPin()

```
Pin microcontroller.Microcontroller.getPin (
            int pinNum )
```

Get a pin's characteristics

Parameters

pinNum	Number of pin

Returns

Pin's characteristics

4.3.3.2 getUc_manufacturer()

```
String microcontroller.Microcontroller.getUc_manufacturer ( )
```

Get the microcontroller's manufacturer

Returns

Microcontroller's manufacturer

4.3.3.3 getUc_model()

```
String microcontroller.Microcontroller.getUc_model ( )
```

Get the microcontroller's model

Returns

Microcontroller's model

4.3.3.4 getUc_pinNum()

```
int microcontroller.Microcontroller.getUc_pinNum ( )
```

Get the microcontroller's pins number

Returns

Number of pins

4.3.3.5 processDocument()

```
ErrorCode microcontroller.Microcontroller.processDocument ( )
```

Process the document obtained from XML file

Returns

Error status

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

- src/microcontroller/Microcontroller.java

4.4 microcontroller.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

4.4.1 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

4.4.2 Constructor & Destructor Documentation

4.4.2.1 Pin()

```
microcontroller.Pin.Pin ( )
```

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

4.4.3 Member Function Documentation

4.4.3.1 getAdc()

```
String microcontroller.Pin.getAdc ( )
```

Get the pin's ADC name

Returns

Pin's ADC

4.4.3.2 getClock()

```
String microcontroller.Pin.getClock ( )
```

Get the pin's clock name

Returns

Pin's clock

4.4.3.3 getFeat_adc()

```
boolean microcontroller.Pin.getFeat_adc ( )
```

See if the pin has an ADC

Returns

Feature availability

4.4.3.4 getFeat_clock()

```
boolean microcontroller.Pin.getFeat_clock ( )
```

See if the pin supports a clock

Returns

Feature availability

4.4.3.5 getFeat_i2c()

```
boolean microcontroller.Pin.getFeat_i2c ( )
```

See if the pin has I2C

Returns

Feature availability

4.4.3.6 getFeat_int()

```
boolean microcontroller.Pin.getFeat_int ( )
```

See if the pin has an interruption

Returns

Feature availability

4.4.3.7 getFeat_reset()

```
boolean microcontroller.Pin.getFeat_reset ( )
```

See if the pin has a reset feature

Returns

Feature availability

4.4.3.8 getFeat_spi()

```
boolean microcontroller.Pin.getFeat_spi ( )
```

See if the pin has SPI

Returns

Feature availability

4.4.3.9 getFeat_timer()

```
boolean microcontroller.Pin.getFeat_timer ( )
```

See if the pin supports a timer

Returns

Feature availability

4.4.3.10 getFeat_uart()

```
boolean microcontroller.Pin.getFeat_uart ( )
```

See if the pin has a UART

Returns

Feature availability

4.4.3.11 getFunc_gnd()

```
boolean microcontroller.Pin.getFunc_gnd ( )
```

See if the pin is GND

Returns

Function availability

4.4.3.12 getFunc_gpio()

```
boolean microcontroller.Pin.getFunc_gpio ( )
```

See if the pin is GPIO

Returns

Function availability

4.4.3.13 getFunc_vcc()

```
boolean microcontroller.Pin.getFunc_vcc ( )
```

See if the pin is Vcc

Returns

Function availability

4.4.3.14 getI2c()

```
String microcontroller.Pin.getI2c ( )
```

Get the pin's I2C name

Returns

Pin's I2C

4.4.3.15 getInt()

```
String microcontroller.Pin.getInt ( )
```

Get the pin's interruption name

Returns

Pin's interruption

4.4.3.16 getName()

```
String microcontroller.Pin.getName ( )
```

Get the pin's name

Returns

Pin's name

4.4.3.17 getNumber()

```
int microcontroller.Pin.getNumber ( )
```

Get the pin's number

Returns

Pin's number

4.4.3.18 getPort()

```
String microcontroller.Pin.getPort ( )
```

Get the pin's port

Returns

Pin's port

4.4.3.19 getReset()

```
String microcontroller.Pin.getReset ( )
```

Get the pin's reset name

Returns

Pin's reset

4.4.3.20 getSpi()

```
String microcontroller.Pin.getSpi ( )
```

Get the pin's SPI name

Returns

Pin's SPI

4.4.3.21 getTimer()

```
String microcontroller.Pin.getTimer ( )
```

Get the pin's timer name

Returns

Pin's timer

4.4.3.22 getUart()

```
String microcontroller.Pin.getUart ( )
```

Get the pin's UART name

Returns

Pin's UART

4.4.3.23 setAdc()

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

Set the pin's ADC

Parameters

feature	Pin's ADC

4.4.3.24 setClock()

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

Set the pin's clock

Parameters

feature	Pin's clock

4.4.3.25 setFeat_adc()

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

Set the pin's ADC feature

Parameters

featState	Feature availability

4.4.3.26 setFeat_clock()

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

Set the pin's Clock feature

Parameters

featState	Feature availability

4.4.3.27 setFeat_i2c()

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

Set the pin's I2C feature

Parameters

featState	Feature availability

4.4.3.28 setFeat_int()

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

Set the pin's interruption feature

Parameters

featState	Feature availability

4.4.3.29 setFeat_reset()

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

Set the pin's reset feature

Parameters

featState	Feature availability

4.4.3.30 setFeat_spi()

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

Set the pin's SPI feature

Parameters

featState	Feature availability

4.4.3.31 setFeat_timer()

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

Set the pin's timer feature

Parameters

featState	Feature availability

4.4.3.32 setFeat_uart()

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

Set the pin's UART feature

Parameters

featState	Feature availability

4.4.3.33 setFunc_gnd()

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

Set the pin to GND status

Parameters

funcState	Function availability

4.4.3.34 setFunc_gpio()

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

Set the pin to GPIO status

Parameters

funcState	Function availability

4.4.3.35 setFunc_vcc()

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

Set the pin to Vcc status

Parameters

funcState	Function availability

4.4.3.36 setI2c()

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

Set the pin's I2C

Parameters

feature	Pin's I2C

4.4.3.37 setInt()

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

Set the pin's interruption

Parameters

feature	Pin's interruption

4.4.3.38 setName()

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

Set the pin's name

Parameters

pinName	Pin's name

4.4.3.39 setNumber()

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

Set the pin's number

Parameters

pinNum	Pin's number

4.4.3.40 setPort()

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

Set the pin's port

Parameters

pinPort	Pin's port

4.4.3.41 setReset()

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

Set the pin's reset

Parameters

feature	Pin's reset

4.4.3.42 setSpi()

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

Set the pin's SPI

Parameters

feature	Pin's SPI

4.4.3.43 setTimer()

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

Set the pin's timer

Parameters

feature	Pin's timer

4.4.3.44 setUart()

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

Set the pin's UART

Parameters

feature	Pin's UART

4.4.4 Member Data Documentation

4.4.4.1 DEF_FEATURE

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

Default value for pin's feature as not available

4.4.4.2 DEF_FEATURE_AV

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

Default value for pin's feature availability as not available

4.4.4.3 DEF_FUNCTION

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

Default value for pin's function as not enabled

4.4.4.4 DEF_NAME

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

Default value for pin's name

4.4.4.5 DEF_NUMBER

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

Default value for pin's number

4.4.4.6 DEF_PORT

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

Default value for pin's port

4.4.4.7 DISABLE

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

Disable value for features and functions

4.4.4.8 ENABLE

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

Enable value for features and functions

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

- src/microcontroller/Pin.java

4.5 xmlParser.TestMain Class Reference

Static Public Member Functions

- static void main (String[ ] openOption)

4.5.1 Detailed Description

Dummy main class for testing the other classes

Author

Miguel Diaz

4.5.2 Member Function Documentation

4.5.2.1 main()

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

Main without GUI

Parameters

openOption	Options include:

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

- src/xmlParser/TestMain.java

4.6 xmlParser.XmlOpener Class Reference

Public Member Functions

- XmlOpener ()
- ErrorCode OpenFile (String fileName)
- Document **getParsedDoc** ()

4.6.1 Detailed Description

Open and process XML files

Author

H112943

Version

0.1

4.6.2 Constructor & Destructor Documentation

4.6.2.1 XmlOpener()

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

Constructor

4.6.3 Member Function Documentation

4.6.3.1 OpenFile()

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

Open the XML file

Parameters

fileName	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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