Pocumentación automática

doxygen

¿Porqué documentar?

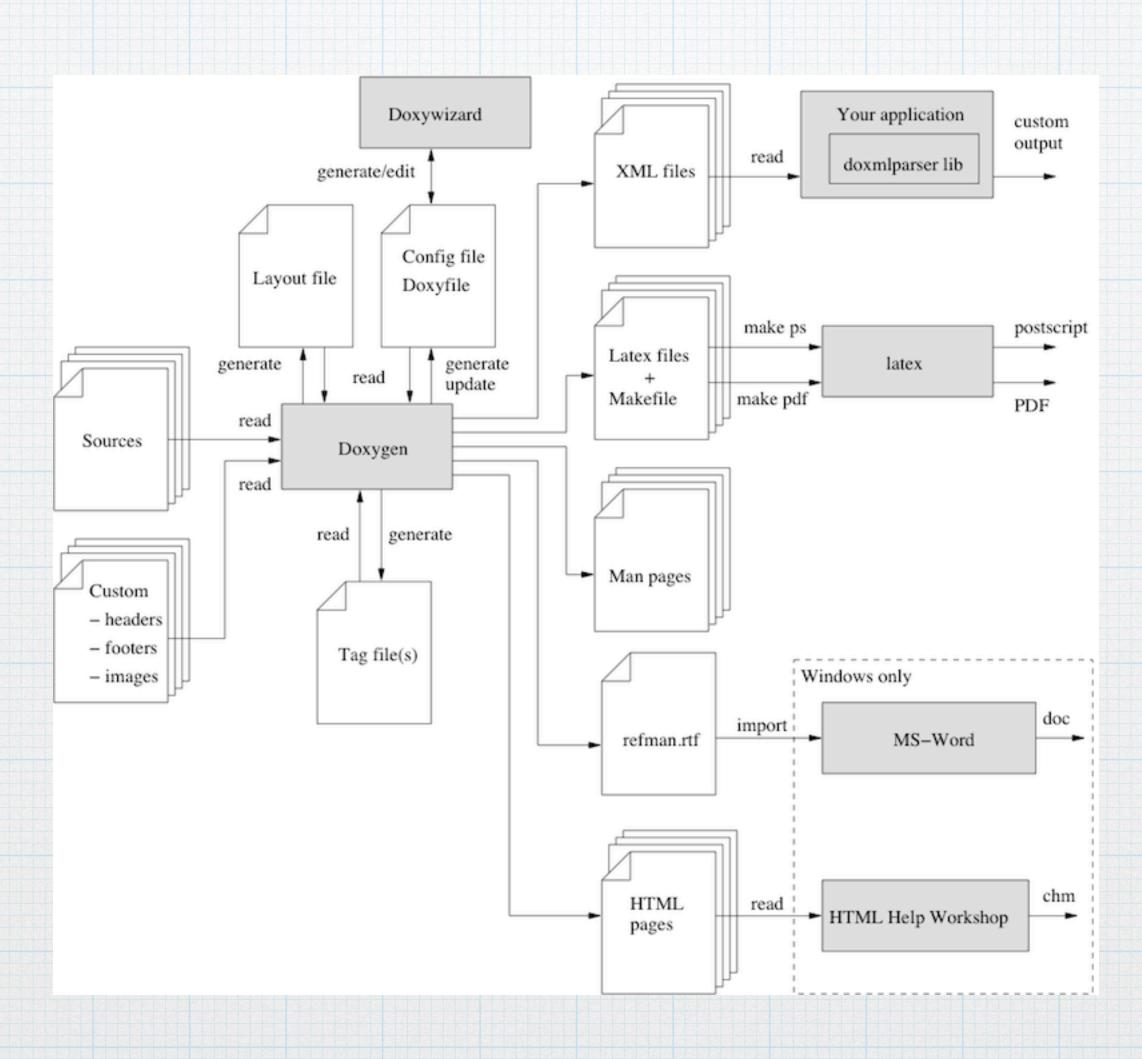
- * Seguirás usando tu código meses después de escribirlo
- * Querrás que la gente entienda tu código
- * Aumenta la calidad del código
- * El código se escribe una vez pero se lee muchas veces

Tipos de documentación

- * Captura de requisitos
- * Comentarios
- * README.md (Markdown)
- * End-User documentation
- * APIREST

¿Qué incluir en un REAPIME?

- * Descripción del problema que el proyecto resuelve
- * Pequeños ejemplos de código
- * Enlaces al gestor de issues o al repositorio de código
- * Preguntas Frecuentes (FAQ)
- * Información sobre cómo contribuir al proyecto
- * Instrucciones de instalación
- * La licencia del proyecto



•		Doxygen GUI frontend +
	Specify the working directory from which do	xygen will run
		Select
	Configure doxygen using the Wizard and/or	Expert tab, then switch to the Run tab to generate the documentation
		Wizard Expert Run
	Topics Project	Provide some information about the project you are documenting
	Mode Output	Project name: My Project
	Diagrams	Project synopsis: my super awesome project
		Project version or id: 3.3
		Project logo: Select No Project logo selected.
		Specify the directory to scan for source code
		Source code directory: src Select
		✓ Scan recursively
		Specify the directory where doxygen should put the generated documentation
		Destination directory: doc Select
		Previous

	Doxygen GUI frontend +	
Specify the working directory from which	doxygen will run	
		Select
Configure doxygen using the Wizard and/o	or Expert tab, then switch to the Run tab to generate the documentation	
	Wizard Expert Run	
Topics		
Project	Select the output format(s) to generate	
Mode Output	✓ HTML	
Diagrams	 plain HTML with navigation panel prepare for compressed HTML (.chm) With search function Change color 	
	■ LaTeX o as intermediate format for hyperlinked PDF o as intermediate format for PDF o as intermediate format for PostScript	
	 Man pages Rich Text Format (RTF) ✓ XML Docbook 	
	Previous	Next

Tipos de comentarios

- * Comentarios de línea
- * Comentarios descriptivos de bloque

(C/C++/C#/Objective-C/PHP/Java)

Bloque de código

```
/**
   * ... text ...
*/
```

```
* A test class. A more elaborate class description.
class Javadoc Test
 public:
    * An enum.
    * More detailed enum description.
   enum TEnum {
         TVall, /**< enum value TVall. */
         TVal2, /**< enum value TVal2. */
         TVal3 /**< enum value TVal3. */
      *enumPtr, /**< enum pointer. Details. */
      enumVar; /**< enum variable. Details. */
      * A constructor.
      * A more elaborate description of the constructor.
     Javadoc Test();
      * A destructor.
      * A more elaborate description of the destructor.
    ~Javadoc Test();
      * a normal member taking two arguments and returning an integer value.
      * @param a an integer argument.
      * @param s a constant character pointer.
      * @see Javadoc Test()
      * @see ~Javadoc Test()
      * @see testMeToo()
      * @see publicVar()
      * @return The test results
      int testMe(int a,const char *s);
      * A pure virtual member.
      * @see testMe()
      * @param c1 the first argument.
      * @param c2 the second argument.
      virtual void testMeToo(char c1,char c2) = 0;
      * a public variable.
      * Details.
      int publicVar;
      * a function variable.
      * Details.
      int (*handler)(int a, int b);
```

(C/C++/C#/Objective-C/PHP/Java)

Cabecera de ficheros o clases

(C/C++/C#/Objective-C/PHP/Java)

Comentando funciones

En una función es interesante dar una descripción de su cometido y, por supuesto, indicar qué parámetros de entrada necesita y qué devuelve como resultado. Para esta tarea se puede usar:

- Obrief descripción corta del cometido de la función
- Oparam para indicar el cometido de un parámetro
- Oreturns para indicar qué devuelve una función
- Overbatim y Oendverbatim para insertar un trozo de texto "literal", quizá un ejemplo de uso

DOCUMENTANDO E CODIO DE SERVICIO DE SERVIC

Resultado

src/master/cdm_daq.cpp File Reference

Master-side implementation of simple access functions to DAQ services provided by a ChapDAQ slave. More...

#include <cdm_link.h>
#include <cdm_daq.h>
#include <stdio.h>
#include <string.h>

File List Globals

Go to the source code of this file.

Defines

#define MSG_BUF_SIZE 100

Functions

cdm_Error cdm_DAQWriteDigitalLine (uint8_t subdevice, uint8_t line, uint8_t value)
Writes the digital output of a given line in a given subdevice.

cd_Error cdm_DAQReadDigitalLine (uint8_t subdevice, uint8_t line, uint8_t *value)
cdm_Error cdm_DAQReadDigitalFrecuency (int subdevice, double *value)
cdm_Error cdm_DAQWritePWM (int subdevice, double dutty_cycle)

Detailed Description

Master-side implementation of simple access functions to DAQ services provided by a ChapDAQ slave.

Bla, bla demà serà

Author:

Angel Perles

late:

5/2010, 4/2011

Definition in file cdm_daq.cpp.

Function Documentation

```
cdm_Error cdm_DAQWriteDigitalLine ( uint8_t subdevice, uint8_t line,
```

uint8_t value
)

Writes the digital output of a given line in a given subdevice.

Most digital output systems are organized in groups of lines, (8, 16, 32 ...) and the aim of this function is to handle only one line a given group

Parameters:

subdevice target subdevice, an integer between 0 and 255

line line to be modifided, in general, a value between 0 and 31, but depends on the target slave state to be written to thew line, mus be 0 or 1

Return

the result of the operation, being cd_Error_NoError if all worked OK

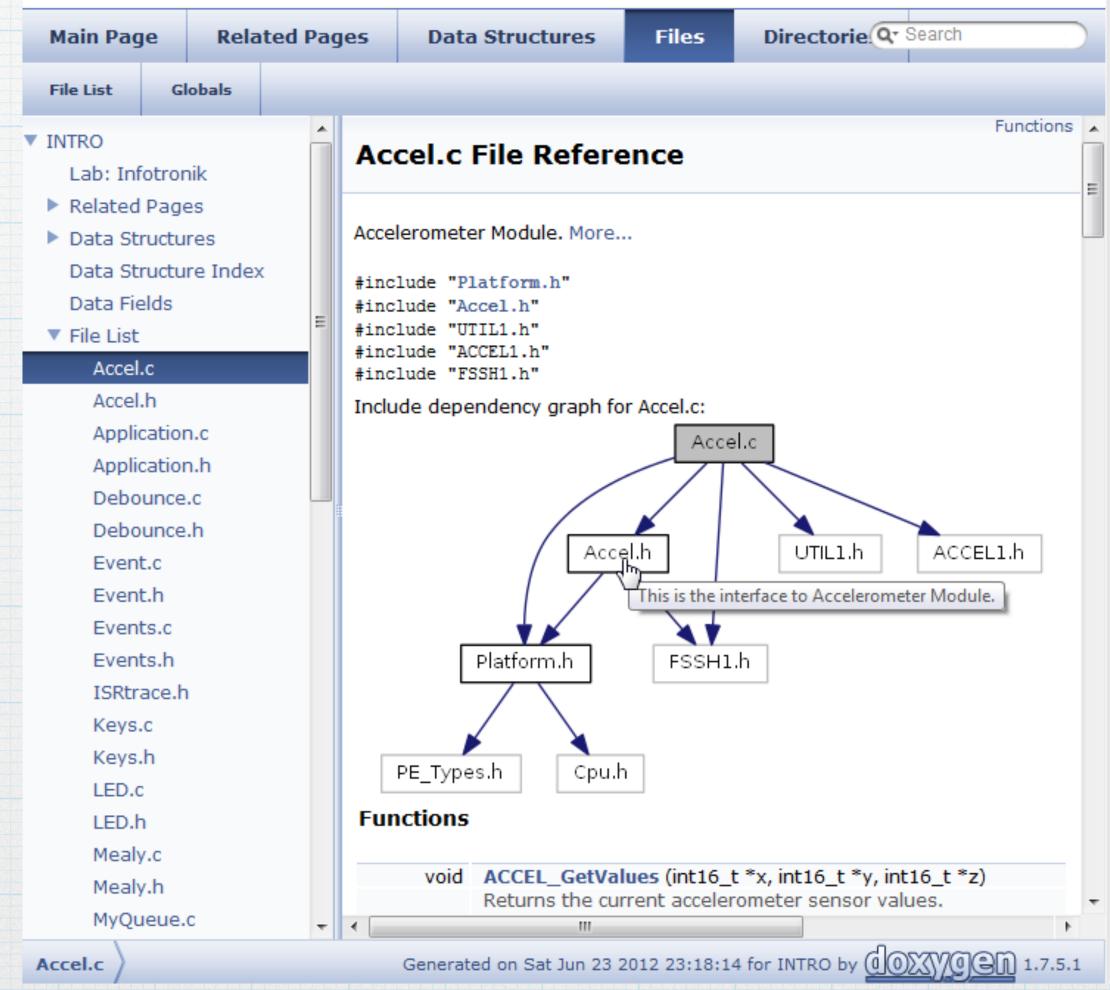
Example:

```
cd_Error my_error;

my_error = cdm_DAQWriteDigitalLine(2,31,1);
if (my_error != CD_Erro_NoError) {
      printf("Ups, this failed with error %s\n", cd_ErrorStr(my_error);
}
```

Definition at line 45 of file cdm_daq.cpp.

Piagramas INTRO V1.0



Se debe incluir el diseño!

```
</php
/**

* @brief This function computes the body mass index

* @author Bill Gates

* height: R, weight: R -> computeBMI -> bmi: R

* @param $height The height of the person

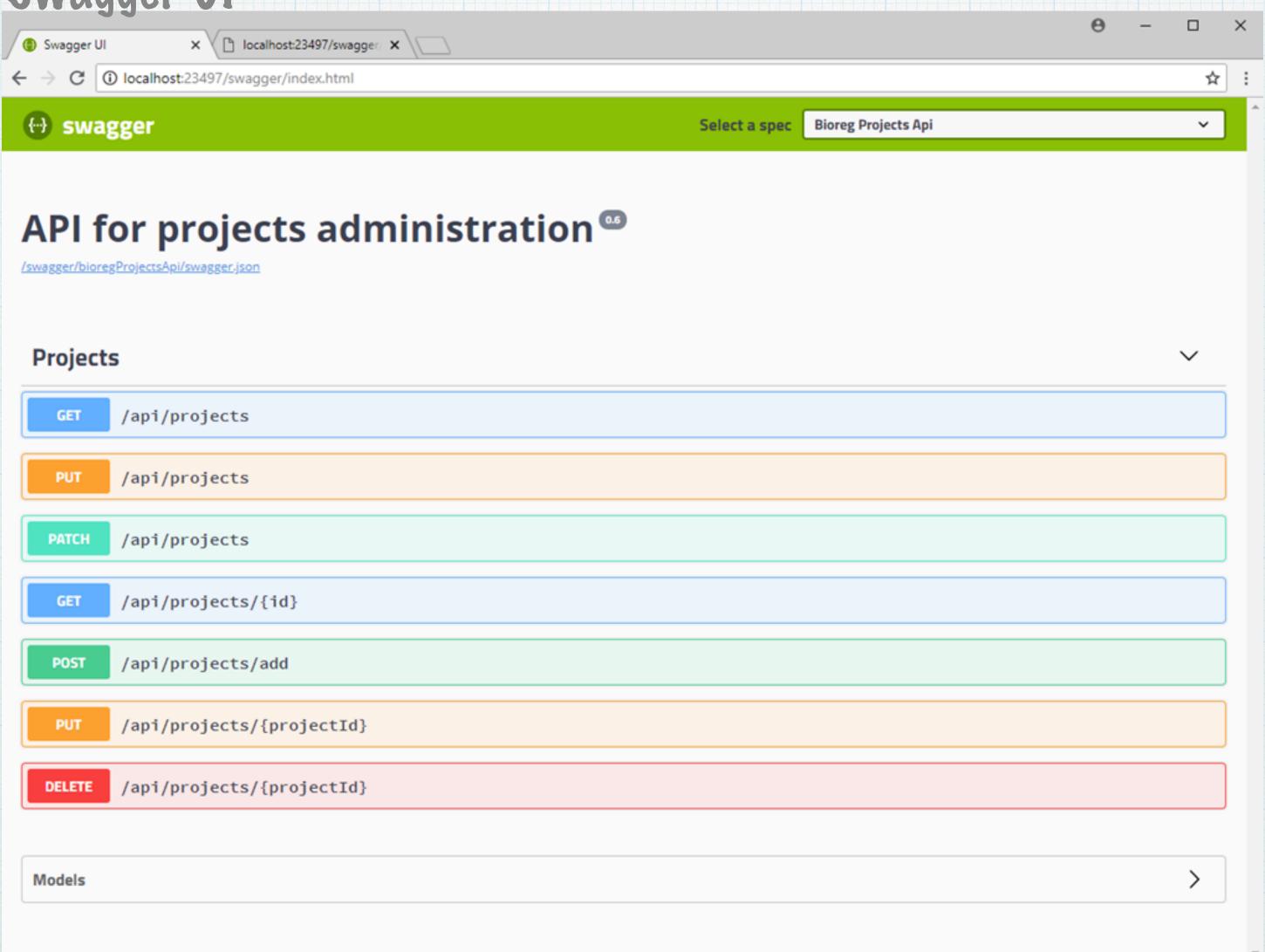
* @param $weight The weight of the person

* @returns The BMI computed

*/
function computeBMI($height, $weight) {
   return $weight / ($height * $height);
}

7>
```

Pocumentación API ReST Swagger VI



Recuerda!

Si tu código necesita un comentario para entenderse...
i cambia tu código!