Doxygen

# Function header template

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| --- |
| /\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/  Void  Function\_name(  int param\_1, /\*\*< Param 1 description \*/  int param\_2) /\*\*< Param 1 description \*/ |
| /\*\*  \*\* Brief descrition of function.  \*\*  \*\* \details Detailed description of function  \*\*  \*\* \attention Sensitive information  \*\*  \*\* \return Return value description  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/  {  /\* Implementation \*/  } |
|  |

# Main page

Create separate DOX file where to specify the contents of main page. Use the following doxygen tags:

* Mainpage
* Image
* Subpage
* Ref

Ensure links from main page to all the relevant pages and groups to finally access the file documentation. If UML diagrams or images are used, ensure there is a descrition and section/subsection for it, explaining this diagram purpose.

# Description of files containing functionality

Document only C files !!!

No need to create separate DOX files for files, except Application(!), which we discussed today, as you don’t really have a lot to describe.

Remarks:

* files containting state machines has to include UML state diagram of those.

In the header of each file use the following doxygen tags:

* Ingroup – think of groups (maybe as we did in scrumy)
* Details - Here goes the text description of what is this file intended for.
* startuml – for those files, containing state mashines
* enduml

# Application description

Application level file must have separate DOX with UML graphs for state machine and UML sequence diagrams for common functionality description with some descriptive text nearby to explain what this sequence diagram is about.

Use tables to describe precision information, min/max length, other paramters of the system etc.

# Main page possible structure

Mainpage

Project name

Image ?

Section Introduction

Project introduction

Section LOGIC Layer

* Subpage Application page

Section HW Layer

* defgroup LCD
* …

Section MCU Layer

* defgroup UART
* ….

# Responcibilities

Henry is responcible for Doxygen file structure and UML integration into toolchain. Carl and Henry are responcible for documentation of the files they have created and maintained. These includes UML diagrams, comments, function headers etc – everybody documents it’s own stuff.