Doxygen Developer manual

1.2.1

Generated by Doxygen 1.9.1

1 Doxygen tool 1

2 Credits 3

3 Namespace Index 5

3.1 Packages . . . 5

4 Hierarchical Index 7

4.1 Class Hierarchy . . . 7

5 Class Index 9

5.1 Class List . . . 9

6 File Index 11

6.1 File List . . . 11

7 Namespace Documentation 13

7.1 ProjectNull Namespace Reference . . . 13

7.2 ProjectNull.DocTools Namespace Reference . . . 13

7.2.1 Enumeration Type Documentation . . . 13

7.2.1.1 DoxyType . . . 13

8 Class Documentation 15

8.1 ProjectNull.DocTools.DoxyFile Class Reference . . . 15

8.1.1 Detailed Description . . . 15

8.1.2 Member Function Documentation . . . 15

8.1.2.1 DoxygenFileExist() . . . 15

8.1.2.2 MakeTheDoxyFiles() . . . 16

8.2 ProjectNull.DocTools.DoxySettings Struct Reference . . . 16

8.2.1 Detailed Description . . . 16

8.2.2 Member Function Documentation . . . 16

8.2.2.1 Load() . . . 17

8.2.2.2 LoadFromEditorPrefs() . . . 17

8.2.2.3 LoadSettingsFromUserDoxyFile() . . . 17

8.2.2.4 Save() . . . 17

8.2.3 Property Documentation . . . 17

8.2.3.1 activeDocumentationFolder . . . 17

8.2.3.2 fullDoxygenPath . . . 17

8.2.3.3 projecSourceFolder . . . 18

8.2.3.4 projectBrief . . . 18

8.2.3.5 projectName . . . 18

8.2.3.6 projectVersionNumber . . . 18

8.3 ProjectNull.DocTools.DoxyWindow Class Reference . . . 18

8.3.1 Detailed Description . . . 18

8.4 ProjectNull.DocTools.ProcessRunner Class Reference . . . 19

8.4.1 Detailed Description 19
8.4.2 Member Function Documentation 19
8.4.2.1 GetOutStream() 19
8.4.2.2 ProcessIsActive() 19
8.4.2.3 StartInWorkingFolder() 19
8.4.2.4 StartWitoutWorkingFolder() 19

9 File Documentation **21**

9.1 C:/Users/JohanHoltby/Documents/LoadBalancer/LoadBalancer/Assets/Doxygen/Documentation/credits.dox File Reference 21
9.2 C:/Users/JohanHoltby/Documents/LoadBalancer/LoadBalancer/Assets/Doxygen/Documentation/README.dox File Reference 21
9.3 C:/Users/JohanHoltby/Documents/LoadBalancer/LoadBalancer/Assets/Doxygen/Editor/DoxyFile.cs File Reference 21
9.4 C:/Users/JohanHoltby/Documents/LoadBalancer/LoadBalancer/Assets/Doxygen/Editor/DoxySettings.cs File Reference 21
9.5 C:/Users/JohanHoltby/Documents/LoadBalancer/LoadBalancer/Assets/Doxygen/Editor/DoxyWindow.cs File Reference 22
9.6 C:/Users/JohanHoltby/Documents/LoadBalancer/LoadBalancer/Assets/Doxygen/Editor/ProcessRunner.cs File Reference 22

Index **23**

Chapter 1

Doxygen tool

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If you have any questions contact me on johan.holtby@gmail.com

I also will put up video tutorials on my youtube: http://www.youtube.com/user/Norritt42/videos

This is a doxygen tool for Unity. It only works for Windows since it uses external batch files. I have been inspired by http://www.jacobpennock.com/Blog/?p=629

To use this tool you need to install:

1. Doxygen - www.doxygen.org
2. A LaTeX to pdf tool - e.g. http://miktex.org/download
3. Remember to update miketex using Update(admin))
4. Install Ghostscript if needed - http://www.ghostscript.com/download/gsdnld.html (The MikTex uses this)
5. Remember to close and reopen Unity if you have it open to update environment variables.
6. Rename DoxyPDF.txt to DoxyPDF.bat in Doxygen\Editor\Resources

One thing that I have found out the hard way is that if you have deep file hearcies some times makeindex refman.idx rejects files. This is a known bug http://sourceforge.net/p/miktex/bugs/2144/

To generate the PDF files:

1. Fill in every thing in settings.
2. Press "Save Settings(...."
3. Go to "Generate/View/Edit"
4. Remember to always use full paths to source in Doxygenwizard and they should have / not \ as fodler separator
5. Press "Generate PDFs"

Best of luck
/Norritt42

Chapter 2

Credits

Thanks to Kerry Enfinger for submitting a bug report and how to fix it.

Chapter 3

Namespace Index

3.1 Packages

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

ProjectNull 13
ProjectNull.DocTools 13

Chapter 4

Hierarchical Index

4.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

ProjectNull.DocTools.DoxyFile 15
ProjectNull.DocTools.DoxySettings 16
EditorWindow
    ProjectNull.DocTools.DoxyWindow 18
ProjectNull.DocTools.ProcessRunner 19

Chapter 5

Class Index

5.1 Class List

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

ProjectNull.DocTools.DoxyFile
: The base doxy file class used to make new doxyfiles form a base doxyfile 15

ProjectNull.DocTools.DoxySettings
: This is the settings of the 16

ProjectNull.DocTools.DoxyWindow
: The doxygen window in the editor to access doxygen and the documentation 18

ProjectNull.DocTools.ProcessRunner
: Contains a process and this is the interface point 19

Chapter 6

File Index

6.1 File List

Here is a list of all files with brief descriptions:

C:/Users/JohanHoltby/Documents/LoadBalancer/LoadBalancer/Assets/Doxygen/Editor/DoxyFile.cs . . . 21
C:/Users/JohanHoltby/Documents/LoadBalancer/LoadBalancer/Assets/Doxygen/Editor/DoxySettings.cs 21
C:/Users/JohanHoltby/Documents/LoadBalancer/LoadBalancer/Assets/Doxygen/Editor/DoxyWindow.cs 22
C:/Users/JohanHoltby/Documents/LoadBalancer/LoadBalancer/Assets/Doxygen/Editor/ProcessRunner.cs 22

Chapter 7

Namespace Documentation

7.1 ProjectNull Namespace Reference

Namespaces

- namespace DocTools

7.2 ProjectNull.DocTools Namespace Reference

Classes

- class DoxyFile

  The base doxy file class used to make new doxyfiles form a base doxyfile.
- struct DoxySettings

  This is the settings of the.
- class DoxyWindow

  The doxygen window in the editor to access doxygen and the documentation.
- class ProcessRunner

  Contains a process and this is the interface point.

Enumerations

- enum class DoxyType { User , Developer }

7.2.1 Enumeration Type Documentation

7.2.1.1 DoxyType

```
enum ProjectNull.DocTools.DoxyType  [strong]
```

Enumerator

User	
Developer	

Chapter 8

Class Documentation

8.1 ProjectNull.DocTools.DoxyFile Class Reference

The base doxy file class used to make new doxyfiles form a base doxyfile.

Static Public Member Functions

- static int MakeTheDoxyFiles (DoxySettings doxySettings)

  Make the doxyfiles in the new folder.
- static bool DoxygenFileExist (DoxyType doxyType, DoxySettings doxySettings)

8.1.1 Detailed Description

The base doxy file class used to make new doxyfiles form a base doxyfile.

8.1.2 Member Function Documentation

8.1.2.1 DoxygenFileExist()

```
static bool ProjectNull.DocTools.DoxyFile.DoxygenFileExist (
            DoxyType doxyType,
            DoxySettings doxySettings )  [static]
```

\breif Test if dxygen file exist

8.1.2.2 MakeTheDoxyFiles()

```
static int ProjectNull.DocTools.DoxyFile.MakeTheDoxyFiles (
            DoxySettings doxySettings ) [static]
```

Make the doxyfiles in the new folder.

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

- C:/Users/JohanHoltby/Documents/LoadBalancer/LoadBalancer/Assets/Doxygen/Editor/DoxyFile.cs

8.2 ProjectNull.DocTools.DoxySettings Struct Reference

This is the settings of the.

Public Member Functions

- void Save ()

  Save the data to the EditorPrefs using SetString.
- void Load ()

  Used to load the settings from EditorPrefs.
- void LoadFromEditorPrefs ()

  Used to load the settings from EditorPrefs.
- void LoadSettingsFromUserDoxyFile ()

  Loading settings from the doxygen using the user doxygen file.

Properties

- string fullDoxygenPath `[get, set]`
- string activeDocumentationFolder `[get, set]`
- string projecSourceFolder `[get, set]`
- string projectName `[get, set]`
- string projectBrief `[get, set]`
- string projectVersionNumber `[get, set]`

8.2.1 Detailed Description

This is the settings of the.

8.2.2 Member Function Documentation

8.2.2.1 Load()

```
void ProjectNull.DocTools.DoxySettings.Load ( )
```

Used to load the settings from EditorPrefs.

8.2.2.2 LoadFromEditorPrefs()

```
void ProjectNull.DocTools.DoxySettings.LoadFromEditorPrefs ( )
```

Used to load the settings from EditorPrefs.

8.2.2.3 LoadSettingsFromUserDoxyFile()

```
void ProjectNull.DocTools.DoxySettings.LoadSettingsFromUserDoxyFile ( )
```

Loading settings from the doxygen using the user doxygen file.

8.2.2.4 Save()

```
void ProjectNull.DocTools.DoxySettings.Save ( )
```

Save the data to the EditorPrefs using SetString.

8.2.3 Property Documentation

8.2.3.1 activeDocumentationFolder

```
string ProjectNull.DocTools.DoxySettings.activeDocumentationFolder  [get], [set]
```

\breif The path to the active documentation folder

It's here the doxy files and PDFs are

8.2.3.2 fullDoxygenPath

```
string ProjectNull.DocTools.DoxySettings.fullDoxygenPath  [get], [set]
```

\breif The path to the doxygen.exe file

8.2.3.3 projecSourceFolder

```
string ProjectNull.DocTools.DoxySettings.projecSourceFolder  [get], [set]
```

\breif The path to the source folder when generating new doxy files.

8.2.3.4 projectBrief

```
string ProjectNull.DocTools.DoxySettings.projectBrief  [get], [set]
```

\breif The project brief description to insert in the doxyfile.

8.2.3.5 projectName

```
string ProjectNull.DocTools.DoxySettings.projectName  [get], [set]
```

\breif The project name to insert in the doxyfile.

8.2.3.6 projectVersionNumber

```
string ProjectNull.DocTools.DoxySettings.projectVersionNumber  [get], [set]
```

\breif The project number (version number) to insert in the doxyfile.

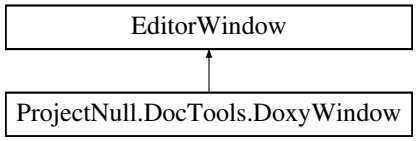
The documentation for this struct was generated from the following file:

- C:/Users/JohanHoltby/Documents/LoadBalancer/LoadBalancer/Assets/Doxygen/Editor/DoxySettings.cs

8.3 ProjectNull.DocTools.DoxyWindow Class Reference

The doxygen window in the editor to access doxygen and the documentation.

Inheritance diagram for ProjectNull.DocTools.DoxyWindow:



8.3.1 Detailed Description

The doxygen window in the editor to access doxygen and the documentation.

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

- C:/Users/JohanHoltby/Documents/LoadBalancer/LoadBalancer/Assets/Doxygen/Editor/DoxyWindow.cs

8.4 ProjectNull.DocTools.ProcessRunner Class Reference

Contains a process and this is the interface point.

Public Member Functions

- bool ProcessIsActive ()
- void StartInWorkingFolder (string runFile, string[ ] arguments)

  Creat a temp working folder and start a process in it.
- void StartWitoutWorkingFolder (string runFile, string[ ] arguments)

  Start a process without creating a temp working folder.
- System.IO.StreamReader GetOutStream ()

  Get the stream out from the process.

8.4.1 Detailed Description

Contains a process and this is the interface point.

8.4.2 Member Function Documentation

8.4.2.1 GetOutStream()

```
System.IO.StreamReader ProjectNull.DocTools.ProcessRunner.GetOutStream ( )
```

Get the stream out from the process.

8.4.2.2 ProcessIsActive()

```
bool ProjectNull.DocTools.ProcessRunner.ProcessIsActive ( )
```

8.4.2.3 StartInWorkingFolder()

```
void ProjectNull.DocTools.ProcessRunner.StartInWorkingFolder (
            string runFile,
            string[] arguments )
```

Creat a temp working folder and start a process in it.

8.4.2.4 StartWitoutWorkingFolder()

```
void ProjectNull.DocTools.ProcessRunner.StartWitoutWorkingFolder (
            string runFile,
            string[] arguments )
```

Start a process without creating a temp working folder.

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

- C:/Users/JohanHoltby/Documents/LoadBalancer/LoadBalancer/Assets/Doxygen/Editor/ProcessRunner.cs

Chapter 9

File Documentation

9.1 C:/Users/JohanHoltby/Documents/LoadBalancer/LoadBalancer/↩ Assets/Doxygen/Documentation/credits.dox File Reference

9.2 C:/Users/JohanHoltby/Documents/LoadBalancer/LoadBalancer/↩ Assets/Doxygen/Documentation/README.dox File Reference

9.3 C:/Users/JohanHoltby/Documents/LoadBalancer/LoadBalancer/↩ Assets/Doxygen/Editor/DoxyFile.cs File Reference

Classes

- class ProjectNull.DocTools.DoxyFile

  The base doxy file class used to make new doxyfiles form a base doxyfile.

Namespaces

- namespace ProjectNull
- namespace ProjectNull.DocTools

Enumerations

- enum class ProjectNull.DocTools.DoxyType { ProjectNull.DocTools.User , ProjectNull.DocTools.Developer }

9.4 C:/Users/JohanHoltby/Documents/LoadBalancer/LoadBalancer/↩ Assets/Doxygen/Editor/DoxySettings.cs File Reference

Classes

- struct ProjectNull.DocTools.DoxySettings

  This is the settings of the.

Namespaces

- namespace ProjectNull
- namespace ProjectNull.DocTools

9.5 C:/Users/JohanHoltby/Documents/LoadBalancer/LoadBalancer/Assets/Doxygen/Editor/DoxyWindow.cs File Reference

Classes

- class ProjectNull.DocTools.DoxyWindow

  The doxygen window in the editor to access doxygen and the documentation.

Namespaces

- namespace ProjectNull
- namespace ProjectNull.DocTools

9.6 C:/Users/JohanHoltby/Documents/LoadBalancer/LoadBalancer/Assets/Doxygen/Editor/ProcessRunner.cs File Reference

Classes

- class ProjectNull.DocTools.ProcessRunner

  Contains a process and this is the interface point.

Namespaces

- namespace ProjectNull
- namespace ProjectNull.DocTools

Index

activeDocumentationFolder
    ProjectNull.DocTools.DoxySettings, 17

C:/Users/JohanHoltby/Documents/LoadBalancer/LoadBalancer/Assets/Doxygen/Documentation/credits.dox, 21
C:/Users/JohanHoltby/Documents/LoadBalancer/LoadBalancer/Assets/Doxygen/Documentation/README.dox, 21
C:/Users/JohanHoltby/Documents/LoadBalancer/LoadBalancer/Assets/Doxygen/Editor/DoxyFile.cs, 21
C:/Users/JohanHoltby/Documents/LoadBalancer/LoadBalancer/Assets/Doxygen/Editor/DoxySettings.cs, 21
C:/Users/JohanHoltby/Documents/LoadBalancer/LoadBalancer/Assets/Doxygen/Editor/DoxyWindow.cs, 22
C:/Users/JohanHoltby/Documents/LoadBalancer/LoadBalancer/Assets/Doxygen/Editor/ProcessRunner.cs, 22

Developer
    ProjectNull.DocTools, 14
DoxygenFileExist
    ProjectNull.DocTools.DoxyFile, 15
DoxyType
    ProjectNull.DocTools, 13

fullDoxygenPath
    ProjectNull.DocTools.DoxySettings, 17

GetOutStream
    ProjectNull.DocTools.ProcessRunner, 19

Load
    ProjectNull.DocTools.DoxySettings, 16
LoadFromEditorPrefs
    ProjectNull.DocTools.DoxySettings, 17
LoadSettingsFromUserDoxyFile
    ProjectNull.DocTools.DoxySettings, 17

MakeTheDoxyFiles
    ProjectNull.DocTools.DoxyFile, 15

ProcessIsActive
    ProjectNull.DocTools.ProcessRunner, 19
projecSourceFolder
    ProjectNull.DocTools.DoxySettings, 17
projectBrief
    ProjectNull.DocTools.DoxySettings, 18
projectName
    ProjectNull.DocTools.DoxySettings, 18
ProjectNull, 13
ProjectNull.DocTools, 13
    Developer, 14
    DoxyType, 13
    User, 14
ProjectNull.DocTools.DoxyFile, 15
    DoxygenFileExist, 15
    MakeTheDoxyFiles, 15
ProjectNull.DocTools.DoxySettings, 16
    activeDocumentationFolder, 17
    fullDoxygenPath, 17
    Load, 16
    LoadFromEditorPrefs, 17
    LoadSettingsFromUserDoxyFile, 17
    projecSourceFolder, 17
    projectBrief, 18
    projectName, 18
    projectVersionNumber, 18
    Save, 17
ProjectNull.DocTools.DoxyWindow, 18
ProjectNull.DocTools.ProcessRunner, 19
    GetOutStream, 19
    ProcessIsActive, 19
    StartInWorkingFolder, 19
    StartWitoutWorkingFolder, 19
projectVersionNumber
    ProjectNull.DocTools.DoxySettings, 18

Save
    ProjectNull.DocTools.DoxySettings, 17
StartInWorkingFolder
    ProjectNull.DocTools.ProcessRunner, 19
StartWitoutWorkingFolder
    ProjectNull.DocTools.ProcessRunner, 19

User
    ProjectNull.DocTools, 14