Introduction

This is Group's number 16, Second Semester Project Documentation

Project Name: Heatington

Installation

following the official documentation

To install using .NET SDK (it has to be installed previously)

dotnet tool update -g docfx

How does it work?

DocFx automatically creates documentation based on the contents of a file. This Documentation is available in the api tab on server.

If you want to add your own, more detailed documentation. Simply add a Markdown (.md) file to /docs directory in the right folder coresponding to the real location of a class in a project.

It's available in the "tab.

How to run it?

Run in the same directory as docfx.json

docfx docfx.json

Now you can preview the website on http://localhost:8080.

Useful Resources

DocFx runs their own (of course) version of Markdown



<u>Documentation about docfx markdown</u> ♂

SP2 Coding Guidelines

Semester Project: Development of Software Systems, (F24) - Group 16

March 2024

Run code formatter

dotnet format

Coding style

This document defines the coding style used throughout the project. The coding style is essentialy the one outlined by Microsoft for C# projects It is a slightly modified version of the <u>following document</u> ♂.

- 1. We use *Allman* style braces, where each brace begins on a new line. A single line statement block can go without braces but the block must be properly indented on its own line and must not be nested in other statement blocks that use braces (See rule 18 for more details). One exception is that a using statement is permitted to be nested within another using statement by starting on the following line at the same indentation level, even if the nested using contains a controlled block.
- 2. We use **four spaces** of indentation (no tabs).
- 3. We use _camelCase for internal and private fields and use readonly where possible. Prefix internal and private instance fields with _, static fields with s_ and thread static fields with t_. When used on static fields, readonly should come after static (e.g. static readonly not readonly static). **Public** fields should be used sparingly and should use **PascalCasing** with no prefix when used.
- 4. We avoid this. unless absolutely necessary.
- 5. We always specify the visibility, even if it's the default (e.g. private string foo not string foo). Visibility should be the first modifier (e.g. public abstract not abstract public).
- 6. Namespace imports should be specified at the *top* of the file, *outside* of namespace declarations, and should be sorted alphabetically, with the exception of System.* namespaces, which are to be placed on top of all others.
- 7. Avoid more than one empty line at any time. For example, **do not have two** blank lines between members of a type.

- 8. Avoid spurious free spaces. For example avoid if (someVar = 0). . . =, where the dots mark the spurious free spaces.
- 9. If a file happens to differ in style from these guidelines (e.g. private members are named m_member rather than member), the existing style in that file takes precedence.
- 10. We only use var when the type is **explicitly** named on the right-hand side, typically due to either new or an explicit cast, e.g. var stream = new FileStream(...) not var stream = OpenStandardInput().
- 11. We use language keywords instead of BCL types (e.g. int, string, float instead of Int32, String, Single, etc) for both type references as well as method calls (e.g. int.Parse instead of Int32.Parse).
- 12. We use **PascalCasing** to name all our constant local variables and fields. *The only exception* is for interop code where the constant value should exactly match the name and value of the code you are calling via interop.
- 13. We use **PascalCasing** for all method names, including local functions.
- 14. We use nameof(...) instead of "..." whenever possible and relevant.
- 15. Fields should be specified at the top within type declarations.
- 16. When including non-ASCII characters in the source code use **Unicode** escape sequences instead of literal characters. Literal non-ASCII characters occasionally get garbled by a tool or editor.
- 17. When using labels (for goto), indent the label one less than the current indentation. 1
- 18. When using a single-statement if, we follow these conventions
 - o Never use single-line form (for example: if (source = null) throw new ArgumentNullException(''source'');
 - Using braces is always accepted, and required if any block of an if=/=else
 if=/.../=else compound statement uses braces or if a single statement body spans
 multiple lines.
 - Braces may be omitted only if the body of every block associated with an if=/=else if=/.../=else.compound statement is placed on a single line.
- 19. Make **all**internal and private types static or sealed unless derivation from them is **required**. As with any implementation detail, they can be changed if/when derivation is required in the future.

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Name	Size	Last Modified
Helpers/		04/09/2024 20:11:30 +00:00
Models/		04/09/2024 20:11:30 +00:00
Controllers/		04/09/2024 20:11:30 +00:00
SourceDataManager/		04/09/2024 20:11:30 +00:00
Optimizer/		04/09/2024 20:11:30 +00:00
AssetManager/		04/09/2024 20:11:30 +00:00

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Controllers/		04/09/2024 20:11:30 +00:00