Heatington

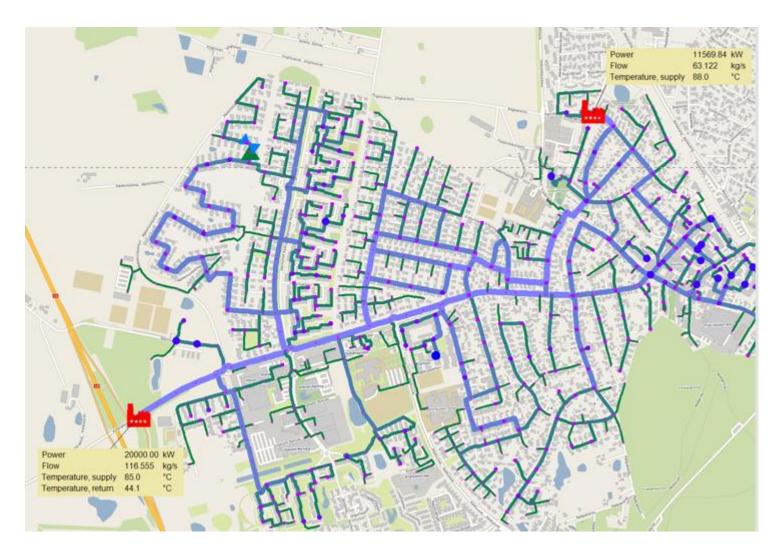
Open Coding Style Guidelines

How to install Docfx

What are we developing

- Heat production optimization for a district heating utility
 - o Secure heat availability for all buildings in the district heating network
 - Produce heat for the lowest costs
 - o Utilize the electricity market for the highest profit or lowest costs
- Five Components
 - Asset Manager (AM)
 - Source Data Manager (SDM)
 - Result Data Manager (RDM)
 - Optimizer (OPT)
 - Data Visualization (DV)
- Two Scenarios
 - Single heating area, one gas boiler, one oil boiler
 - o Single heating area, one gas boiler, one oil boiler, one gas motor, one electric boiler
- Two Periods
 - Winter period
 - Summer Period

Example of heating net



Component Diagram

component-diagram.png

Class Diagram

class-diagram.png

Introduction

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

Project Name: Heatington

Installation

following the official documentation

Documentation Link□

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 Docs tab.

How to run it?

Run in the same directory as docfx.json

docfx docfx.json --serve

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

If you want to rebuild your documentation run this command in a new terminal window

docfx docfx.json

You may encounter some probles with running docfx command

Sometimes docfx is not automatically added to your PATH. In order to fix that find the location of your dotnet tools. For UNIX based systems it should be ~/.dotnet/tools/docfx. Then either add

your dotnet/tools directory to global PATH or just run docfx from explicitly specified path.

e.g

```
~/.dotnet/tools/docfx docfx.json --serve
```

How to add Markdown files?

in toc.yml file inside your directory add a desired markdown file, then add this to the YAML file

```
- name: <Name of the component>
href: <NameOfTheFile>.md
```

How to add new directories?

in toc.yml file inside your directory add a new directory then add this to the YAML file

```
- name: <Name of the directory>
href: <PathToTheDirectory>/toc.yml
```

REMEMBER to add the toc.yml file later inside of the new directory, pointing onto the .md files

Useful Resources

DocFx runs their own (of course) version of Markdown

Brief Introduction to a DocFx (15min Video) ☑



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

Namespace Heatington.AssetManager Classes

<u>AssetManager</u>

<u>HeatingGrid</u>

ProductionUnit

Enums

ProductionUnitsEnum