Secure Software Development (2020/21) CS2S562\_2020\_v1

Here is some information about my project:

I have used the first Secure logger pattern and also there are three type to secure logger which I have used too:

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

The advantage of using the structure is that allows to add new functionality to existing object without altering its structure as well as wraps the original class and provides additional functionality keeping class methods signature intact.

I have added a separate class called SimpleFileStearm to save output to a file:

Graphical user interface, text, application, email

Description automatically generated

Here is my second pattern which is Authenticator & Authorization combined with proof of ID pattern and there are three different type of users:

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Text

Description automatically generated

Here is the machine state function but I have decided to put the state of the machine is always on:

Graphical user interface, application

Description automatically generated

I have created three sensors and they are Report the temperature, humidity and windspeed respectively:

A picture containing table

Description automatically generated

Graphical user interface

Description automatically generated with low confidence

Graphical user interface

Description automatically generated with medium confidence

Their functionality:

Text

Description automatically generated

I have added a class to check the type of permission that allows the user to modify sensors:

Text

Description automatically generated

And here is a function to read data form a file:

Graphical user interface, text, application

Description automatically generated

Here is the main menu:

Graphical user interface, text, application, email

Description automatically generated

Text

Description automatically generated