MOD.001 Views

(TINF21C, SWE)

Project: Modelling Wizard Improvements

Customer: Markus Rentschler

Christian Holder

Team: Project Manager   – Robin Ziegler (inf21100@lehre.dhbw-stuttgart.de)

Developer   – Nils Hoffmann (inf21194@lehre.dhbw-stuttgart.de)

Test Manager   – Michael Grote (inf21111@lehre.dhbw-stuttgart.de)

System Architect   – Fabian Kreuzer (inf21106@lehre.dhbw-stuttgart.de)

Tech. Documentation – Dana Frey (inf21099@lehre.dhbw-stuttgart.de)

Product Manager   – Maximilian Trumpp (inf21123@lehre.dhbw-stuttgart.de)

Graphical Designer   – Sophie Kirschner (inf21083@lehre.dhbw-stuttgart.de)

Change History

Version	Date	Author	Comment
0.1	28.04.2023	Fabian Kreuzer	Created
1.0	29.04.2023	Fabian Kreuzer	Finished

Scope

The views are the GUI of this application. Everything the user can see or interact with happens here.

Glossary

The Modelling Wizard for Devices is a stand-alone software, that can be used to create or modify devices and interfaces. It can also be used to import CAEX 2.15 and CAEX 3.0 files, that will be converted to the AMLX (.aml; .amlx; .xml;) package.

Module Requirements

Requirements

This module contains the user interface. Therefore it follows these requirements:

- LF40: GUI
- LF50: Display device in a readable way
- LF60: Edit device

Module Context

This module provides a graphical interface. By adding interfaces, filling and editing the attributes and attaching images and icons, the graphical interface should give the user a simplified way to create files. It is attempted to make the interface as practical as possible. Therefore we made the usability analysis and follows the principles we worked out. The data the user can see is made of our objects. The user input is passed to the processes MOD.002 which then validate it and react to the events made by the user.

Analysis

The graphical user interface must provide the user with a simple, intuitive way to create files. This requires the ability for the user to interactively enter information and be supported by the graphical user interface. It must be checked whether the user has entered all the required data. If this is not the case, an appropriate and specific error message must be returned to the user, letting the user know what he has to do to improve this error. If other problems occur because the user does something unexpected or something that is requested by the program, but corrupts the export of the file, a specific error message must also be returned to the user.

Design

This module follows the design made by the used WinUI3 framework. It has a main page with different sub pages. The user can switch between these sub pages to display detailed data. All standard functions can be accessed by the main window like for example open a new file.

Implementation

It is implemented via the WinUI3 Framework were we created different WPF objects to fulfill all the requirements. WinUI3 is used to give the application a new and fresh look.

Module Tests

Req.-ID	Test suite	Status
LF40	TS-001	success
LF50	TS-001	success
LF60	TS-001	success