Usability analysis of previous team

(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	16.03.2023	Sophie Kirschner	Initial Setup
1.0	04.05.2023	Sophie Kirschner	Improvements

Table of Contents

1. Introduction

The analysis was based on the DIN EN ISO 9241 guidelines with a special focus on part 110 – "Grundsätze der Dialoggestaltung". In this, there are seven principles that play a key role in ensuring usability: Task appropriateness, self-descriptiveness, conformity to expectations, controllability, individualizability, conduciveness to learning, error tolerance.
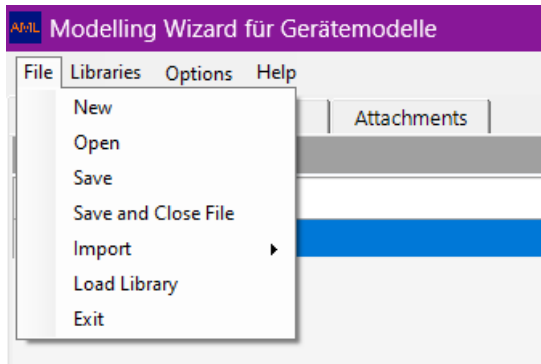
This usability analysis was created by using the methods of "Thinking Aloud" and a question sheet. The sheets are available at:

https://github.com/users/robinziegler/projects/1?pane=issue&itemId=13232065

The issues with the previous Software are summarized in the following.
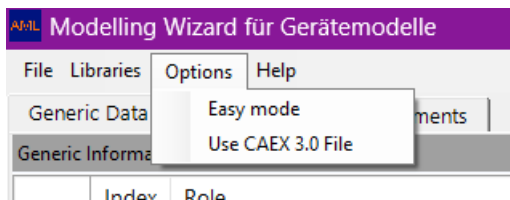
2. Navigation Bar

2.1 File Menu

Picture 1: File Menu

Issue 1: "Save and Close File" unnecessarily redundant

Issue 2: "Open" and „Import" provide the same feature

Issue 3: "Load Library" fits better in "Libraries" menu

2.2 Options Menu

Picture 2: Options Menu

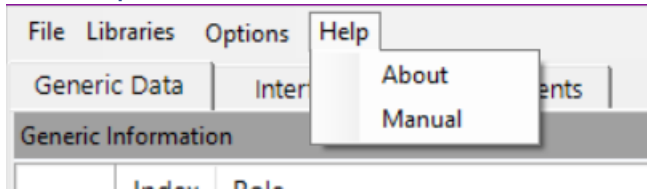Issue: No indicator, which mode/file is currently active (no self-descriptiveness)

2.3 Input Fields

Picture 3: Input fields in navigation bar

Issue: Unnecessary function in navigation bar, confusing for user
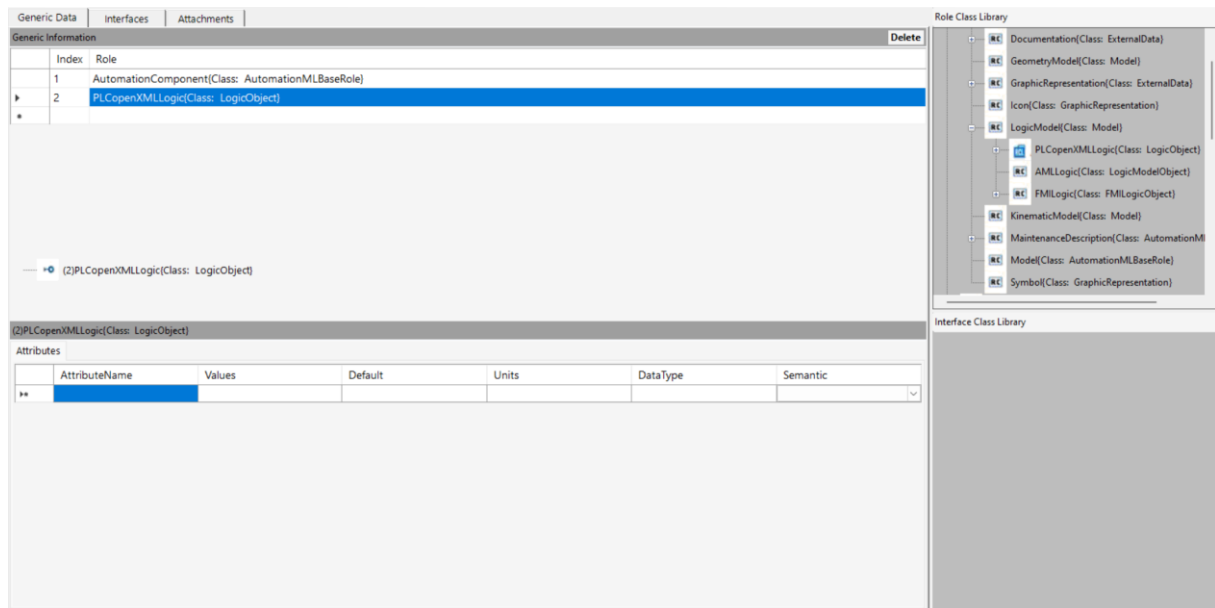
2.4 Help Menu

Picture 4: Help Menu

Issue: "About" doesn't suit the term "Help"

3. Generic Data

Picture 5: Generic Data Overview

Issue 1: User has to click on additional button to expand prefilled "Attributes" sheet
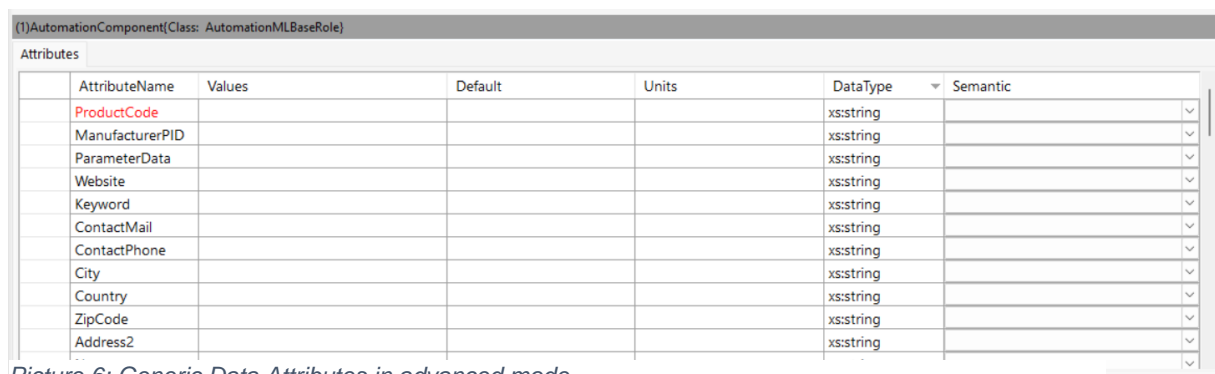
Issue 2: Display of "Role Class Library" unnecessary for basic usage

Issue 3: Display of "Interface Class Library" unnecessary for "General Data" tab, because it provides no purpose at this position

Issue 4: No explanation on the usage of libraries for unexperienced users (adding a library to the table with the drag and drop system is unexplained and difficult to utilize; no self-descriptiveness and learning facilitation)

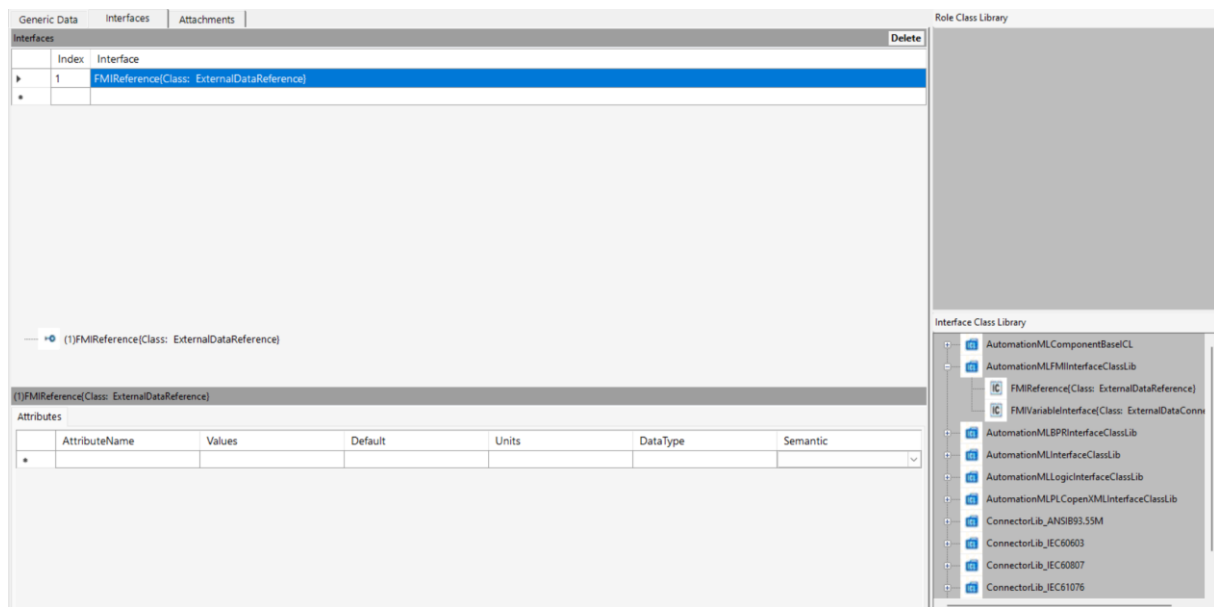Issue 5: No purpose of first column in "Generic Information" table

Issue 6: Display of selected table entry below the table unnecessary (redundant)

Picture 6: Generic Data Attributes in advanced mode

Issue 7: "Attributes" sheet in advanced mode: "DataType" unrestricted editing through the user can cause problems (no preventive error tolerance)

4. Interfaces

Picture 7: Interfaces Overview

Issue 1: User has to click on additional button to expand prefilled "Attributes" sheet

Issue 2: Display of "Interface Class Library" unnecessary for basic usage

Issue 3: Display of "Role Class Library" unnecessary for "Interfaces" tab, because it provides no purpose at this position

Issue 4: No explanation on the usage of libraries for unexperienced users (adding a library to the table with the drag and drop system is unexplained and difficult to utilize; no self-descriptiveness and learning facilitation)

Issue 5: No purpose of first column in "Interfaces" table

Issue 6: Display of selected table entry below the table unnecessary (redundancy)

Issue 7: "Attributes" sheet in advanced mode: "DataType" unrestricted editing through the user can cause problems (no preventive error tolerance)

5. Attachments

Picture 8: Attachments Overview

Issue 1: Display of "Role Class Library" and "Interface Class Library" unnecessary for "Attachments" tab, because it provides no purpose at this position

Issue 2: The form for adding attachments is not user-friendly. To activate the form, the add button must be pressed, which is not communicated

Issue 3: No purpose of first column in table

6. General Issues

Issue 1: No dark mode and individual sizing option (no individualizability)

Issue 2: Unattractive color theme and no clear marking of which tab you are in (Generic Data, Interfaces or Attachments)

Issue 3: Generally old look and feel