

File to SOMIX

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Abstract

One of many possible ways to extract a SOMIX model from files with JavaScript coding is specified.

Keywords:

1. Introduction

This document describes how Moose2Model extracts a SOMIX meta-model [1] from file. This extraction follows the principles which are described in [2]. This logic is implemented in Moose2Model by the function “Extract File System to SOMIX model”.

See section 2 for a model of a file system which does not contain further details. See section 3 for a model of code and data which is contained in files.

2. Extract File System

Directories are mapped to SOMIX.Grouping:

- name: The name of the directory without any conversion of cases.
- uniqueName: A slash which is followed by all directories where the specified directory is contained separated by a slash.
- technicalType: 'Folder'.
- linkToEditor: A link to open the specified element in Visual Studio Code.

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Files are mapped to SOMIX.Data:

- name: The name of the file without any conversion of cases.
- uniqueName: A slash which is followed by all directories where the specified directory is contained separated by a slash. Followed by a slash and the name of the file.
- technicalType: 'File'.
- linkToEditor: A link to open the specified element in Visual Studio Code.

Files and folders are contained in folders. These is mapped to SOMIX.ParentChild.

3. Extract JavaScript

JavaScript is expected to be the coding in html pages. The extraction logic searches therefore for the <script> tag in files which contain html. JavaScript coding is expected to be in the html file itself and in linked files which contain JavaScript code.

Directories are mapped to SOMIX.Grouping:

- name: The name of the directory without any conversion of cases.
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- technicalType: 'Folder'.
- linkToEditor: A link to open the specified element in Visual Studio Code.

Files are mapped to SOMIX.Grouping:

- name: The name of the file without any conversion of cases.
- uniqueName: A slash which is followed by all directories where the specified directory is contained separated by a slash. Followed by a slash and the name of the file.

- `technicalType`: 'File'.
- `linkToEditor`: A link to open the specified element in Visual Studio Code.

Files and folders are contained in folders. These is mapped to `SOMIX.ParentChild`.

Declaration of Competing Interests

The author declares that he has no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

Acknowledgments

This work was funded by CubeServ GmbH. Many colleagues provided valuable support to make this project possible. I thank Patrick Michels for providing resources and support.

References

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