

MUSIKWISSENSCHAFTLICHES SEMINAR
DETMOLD/PADERBORN

ZENTRUM MUSIK – EDITION – MEDIEN
PADERBORN

DETMOLDER HOFTHEATER PROJEKT
PASTICCIO PROJEKT

Metadata Editor

Systems Design

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Part I.

Introduction

The software is designed for editing and creating metadata in the formats of the Text Encoding Initiative (TEI) and Music Encoding Initiative (MEI) and saved in the XML-Database.

Part II.

User Interface Design

The User interface contains two parts: toolbar and tabview.

1. Toolbar

Layout



Figure 1: Tool Bar

Action Paths and Results

1. Select menu "new":
 - a) "Work" —> new tab will be opened for creating and saving work data in MEI format (disabled);
 - b) "Source" —> new tab will be opened for creating and saving source data in MEI format (disabled);
 - c) "Person" —> new tab will be opened for creating and saving person data in TEI format.
2. Select menu "open":

- a) "Work" —> open search window (disabled);
 - b) "Source" —> open search window (disabled);
 - c) "Person" —> open search window (disabled);
3. Select an item in "Help" menu (disabled).:
- a) "Documentation" —> open a new browser tab with systems design document.
 - b) "Download" —> open a new browser tab with download webpage;

2. Tab View

Execution

Layout

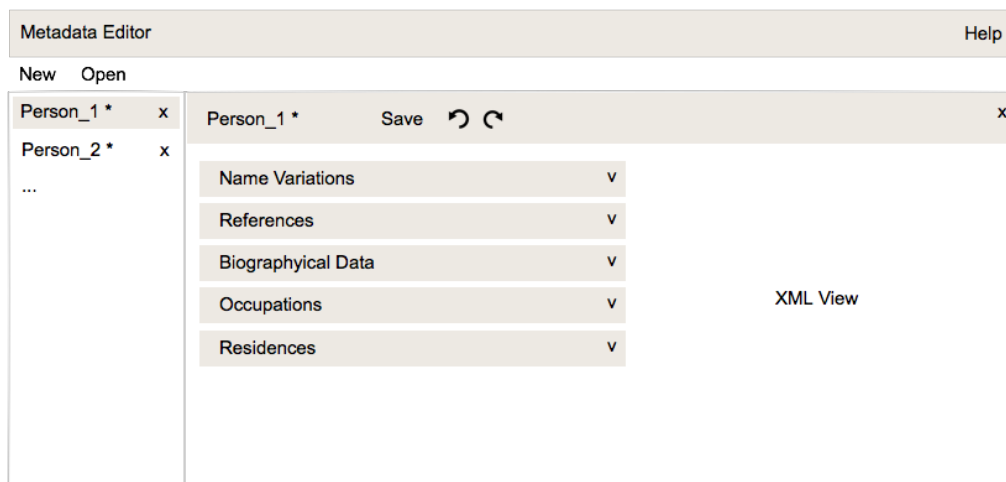


Figure 2: Person View Tab

Widgets description

1. Save icon for save xml in database.
2. undo (disabled)
3. redo (disabled)
4. close
5. hide section

Action Paths and Results

1. After save tab view will be closed (temporary) and one information message with file name will be shown

Validation and Constraints

Data sources and targets

2.1. Person Tab

Name Variations Section Name Variation Section consist two areas: fields area and xml area (disabled).

The screenshot displays the 'Metadata Editor' application window. The title bar includes 'Metadata Editor' and a 'Help' button. Below the title bar are 'New' and 'Open' buttons. A tab bar on the left shows 'Person_1 *' and 'Person_2 *'. The main area is titled 'Person_1 *' and contains a 'Save' button and a refresh icon. The 'Name Variations' section is expanded, showing a form with the following fields: 'Type' (dropdown), 'Subtype' (dropdown), 'Language' (dropdown), 'Filename' (text input), and '+ add Field' (button). To the right of the 'Filename' field are 'v', '^', and '- delete' buttons. Below the form is a '+ add Name Variation' button. At the bottom, there are four expandable sections: 'References', 'Biographical Data', 'Occupations', and 'Residences', each with a 'v' button. The text 'XML View' is visible on the right side of the main area.

Figure 3: Name Variations Section

Layout

Widgets description

1. Combobox "Type". One mandatory attribute for "persName"-block with values: "reg", "full", "alt", "real", "pseud".
2. Combobox "Subtype". One optional attribute, if "Type" is set to "alt".
3. Combobox "Language". One optional attribute with values: "it", "de", "en", "ru", "pl", "fr".
4. Combobox "add Field". Values are optional entities for "persName"-block: "Surname", "Forename", "GenName", "NameLink", "Rolename", "AddName", "AddName-Type", "Value".
5. Button "Delete". For deletion an entity.
6. Button "v". Move down an entity .
7. Button "↑". Move up an entity.
8. Button "add Name Variation" for add a "persName"-block.
9. Button "remove Name Variation" for remove a "persName"-block.

Validation and Constraints

1. One Name Variation Section with type "reg" must be exist.
2. Button "remove Name Variation" is not exist for first Name Variation Section.
3. Only one Name Variation Section with type "full" is allowed.
4. Combobox "Subtype" is exist for Name Variation Section with type "alt".

Action Paths and Results

1. Select value "reg" in "Type"-combobox -> If more Name Variations Sections with type "reg" are exist -> one error message will be shown.
2. If Name Variations Sections with type "reg" is not exist -> one error message will be shown.
3. Select value "full" in "Type"-combobox -> If more Name Variations Sections with type "full" are exist, one error message will be shown.
4. Select value "alt" in "Type"-combobox -> "Subtype" combobox will be visible. Select other value in "Type"-combobox -> "Subtype" combobox will be hidden.
5. Select one value in "add Field"-combobox -> An entity Field will be added additionally with move buttons and delete button .

Data sources and targets

References Section (disabled)

Layout

Widgets description

Action Paths and Results

Validation and Constraints

Data sources and targets

Biographical Data Section (disabled)

Layout

Widgets description

Action Paths and Results

Validation and Constraints

Data sources and targets

Occupations Section (disabled)

Layout

Widgets description

Action Paths and Results

Validation and Constraints

Data sources and targets

Residences Section (disabled)

Layout

Widgets description

Action Paths and Results

Validation and Constraints

Data sources and targets

2.2. Work Tab

2.3. Source Tab

Part III. Data Design

3. DB-Structure

4. Property-Files

5. MEI and TEI Subsets

6. Relation-Diagram

Part IV. Process Design