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SLR Toolkit

Informal Documentation

Task: Taxonomy Refactoring

Outline

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What is SLR Toolkit?

What is SLR Toolkit?

- SLR Toolkit – A Toolkit for Systematic Literature Reviews (<https://github.com/sebastiangotz/slr-toolkit/>)

The screenshot displays the SLR Toolkit interface. The main window shows a literature review entry for the title "Factors for effective {BIM} governance" by Eissa Alreshidi and Monjur Mourshed and Ya, published in March 2017. The abstract discusses the challenges of collaborative environments in construction projects. The interface includes a sidebar with a taxonomy tree, a search bar, and a chart view.

Chart View: Number of cites per subclass of Zielgruppen

Subclass	Number of Papers
Privatsektor	7
unspezifisch	7
Oeffentlicher Sektor	5

Task

Taxonomy Refactoring

Task

General Task is to improve taxonomy refactoring

- Inline text editing
- Taxonomy error detection
- Quickfix

Solution

Solution – Inline text editing

- ▶ ☐ Zielgruppe (18)
- ▼ ☐ Veröffentlichungsland (32)
 - ▶ ☐ Nordamerika (9)
 - ▶ ☐ Europa
 - ▶ ☐ Asien (17)
 - ☐ Neuseeland (0)
 - ☐ Australien (2)
- ▶ ☐ Veröffentlichungsort (8)

Solution – Taxonomy error detection

Taxonomy:

```
Persons{  
    Female{  
        Alice  
    },  
    Male{  
        Bob  
    }  
}
```

Right Classification:

```
Persons{Female{Alice}}
```

Wrong Classification:

```
Persons{Bob}
```

Solution – Quickfix (1)

Taxonomy:

```
Persons{  
    Female{  
        Alice  
    },  
    Male{  
        Bob  
    }  
}
```

Classification:

```
Persons{Female{Eve}}
```

1) Quickfix: (add to Taxonomy):

```
Persons{  
    Female{  
        Alice,  
        Eve  
    },  
    Male{  
        Bob  
    }  
}
```

Solution – Quickfix (2)

Taxonomy:

```
Persons{  
    Female{  
        Alice  
    },  
    Male{  
        Bob  
    }  
}
```

Classification:

```
Persons{Female{Alice, Eve}}
```

2) Quickfix:

(remove from Classification)

```
Persons{Female{Alice}}
```

Solution – Quickfix (3)

Taxonomy:

```
Persons{  
    Female{  
        Alice  
    },  
    Male{  
        Bob  
    }  
}
```

Classification:

```
Persons{Alice}
```

3) Quickfix: (correct Classification)

```
Persons{Female{Alice}}
```

Hints for beginners

Getting started

Hints for beginners (1)

Important classes:

- `de.tudresden.slr.model.taxonomy.ui.views.TaxonomyCheckboxListView`
Cares about all UI-Interaction of Taxonomy
- `de.tudresden.slr.utils.quickfix`
Creates and handles the Quickfixes of Taxonomy errors
- `de.tudresden.slr.utils.taxonomy.manipulation`
Add, change and remove Terms of Taxonomy

Hints for beginners (2)

Helpful methods:

- `ModelRegistryPlugin.getModelRegistry().getActiveTaxonomy().get().getDimensions()`
Returns Taxonomy
- `SearchUtils.findDocumentWithTerm(term)`
Returns Map of Documents
- `Utils.mark(document, message, path, path2, sourceId)`
Creates a warning marker in problem view

Contact

Feel free to contact me if there are any questions: Jonathan.Seitz1@tu-dresden.de