Aufgabe 2-0: BASE XML SETUP

Steps Perfor med

Download the base XML for Team 13:

- Original download: http://online.univie.ac.at/vlvz?kapitel=707&semester=S2015&format=xml is empty, since study programme changed, communication with Mag. Mangler and adaption to new URL: http://online.univie.ac.at/vlvz?kapitel=706&semester=S2015&format=xml
- 2. Cleaning of XML through search/replace for XML entities with the following results

Replace & amp; apos; -> & apos; 721 occurences

Replace & amp; quot; -> & quot; 15 occurences

Replace & amp; amp; -> & amp; 507 occurences

Replace & amp; lt; -> & lt; 0 occurences

Replace & amp;gt; -> & gt; 0 occurences

remove nbsp; in Line 466 -> This was a random space in the middle of a word Corrected numeric entities & amp;# -> &# 439

3. Development of XSL based transformation in 3 steps to recognize the hierarchical structure and transform to English tagnames.

All 3 xsl transformations are performed using xsltproc XSL FILE INPUT XML > OUTPUT.XML

1 extractHierarchyAndRename.xsl: clean anchor levell at the beginning of file, rename tag names for numeric chapters to tag "chapter" and add a specific attribute to identify the level of a chapter

```
xsltproc 1\ extractHierarchyAndRename.xsl
baseXML_706_download.xml > output_step1.xml
```

2 constructParentRelation.xsl: find the parent level ID through the order of chapters and add parentID attribute (preceding-sibling::chapter[@level = \$parentLevel][1]/@id)

```
xsltproc 2\ constructParentRelation.xsl output_step1.xml
> output_step2.xml
```

3 constructHierarchyAndRename.xsl create the hierarchy as suggested and perform language transformation. Perform any kind of calculation and information structure needed for exercises.

```
xsltproc 3\ constructHierarchyAndRename.xsl
output step2.xml > output step3.xml
```

Pretty-print result XML

```
xmllint --format output_step3.xml >
baseXML tranformed.xml
```



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Solution

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