TEI and Microsoft: a marriage made in...: Using proprietary tools for producing standardly encoded editions

Tomaž Erjavec Dept. of Knowledge Technologies Jožef Stefan Institute Ljubljana, Slovenia tomaz.erjavec@ijs.si

1. XML and editorial interventions

It is generally assumed that scholarly annotated digital texts, be they text-critical editions or linguistically annotated corpora, should be stored in XML to ensure longevity as well as platform and software independence. Furthermore, the TEI Guidelines (Sperberg-McQueen and Burnard, 2002) are the de-facto standard for constructing the XML schemas for most such texts. But while XML is well-suited for machine processing, it is less than ideal for authorial or editorial interventions into the text, esp. when used with the complex TEI-derived schemas. It is of course possible to edit XML documents directly in a plain text editor, or better yet in specialised XML editors that support on-the-fly validation against a schema and schema-dependent drop-down menus. But, depending on the text type and required manual interventions, these generic editors are too clumsy for extensive work, and do not enable complex constraints on the allowed content and changes in the annotations. An additional problem with using XML editors for editorial work is the fact that many humanities scholars or students who are most likely to be doing this work have no knowledge of XML or TEI or any experience in editing it. This problem becomes all the more relevant in collaborative projects in which, say, a large number of students are hired to annotate a certain text or text collection. The effort required to first teach them how to use an XML editor and the underlying concepts might be prohibitive, and saving time necessary to perform each editorial intervention is essential.

Such problems of manual intervention can be resolved as they had been before the advent of XML: by developing specialised editing programs for the task at hand which store the data in the required format, and are optimised to perform validity checking and enable fast and easy editing of particular texts types or annotations. But such development is expensive in programming time, (human) editors need to be taught the specifics of the system and last but

not least, the program might need to be installed on many different computers or on a Web server for which an uninterrupted internet connection is required.

On the other hand, standard desktop office editors are very versatile, can be easily configured for particular tasks, and most computer users are literate in their usage and already have them installed. In the context of scholarly text editing and annotation, two editors are especially relevant:

• Microsoft Word, the most used text editor, allows easy text authoring (e.g. spell-checking) and editing (e.g. hot keys), definition of complex document structures (sections, tables, notes), has good support for Unicode, allows the inclusion of graphics, etc.; and

• Microsoft Excel, a widely used spreadsheet editor, allows sorting, contentdependent formatting, cell protection, drop-down menus, multiple sheets, etc.

Both editors have applications in scholarly digital texts production: Word is appropriate for text authoring and editing and simple alignments (e.g. between the transcription and its facsimile), while Excel can be usefully employed for linguistic annotation, especially lemmatisation and part-of-speech tagging.

The missing link is, of course, the transformation from the file format of the respective editor to the format defined by a specific (TEI) XML schema. The implementation of such a transformation brings about two problems:

• how to parse complex input files the formats of which are under the control of a software company, hence without the necessarily accessible specifications and with no guarantees on modifications from one version of the software to another; and

• how to reconcile the very free ("visual") structure allowed by the editors to the much stricter ("semantic") XML schema controlled output.

This paper explains how we overcame these two hurdles in the otherwise appealing scenario: humanities editors are free to use tools they are familiar with (Word, Excel), no time investment into project specific (computer) editors is required, yet the final digital edition is stored in a standardised, well-documented and processable format, the TEI XML.

2. The conversion Web service

The conversion architecture is centred on a Web service which takes as input (possibly a combination of) Word and Excel documents and returns XML and HTML documents. The conversion consists of:

- 1. parsing the input documents;
- 2. converting (and merging) them to a TEI document;
- 3. validating the TEI document;
- 4. converting the TEI document to HTML;
- 5. (converting the TEI document to Excel);

Step 1, the first hurdle mentioned above, would have been much more difficult (if not impossible) to overcome some years ago, as we would need to develop or obtain software to parse native editor formats (RTF, Excel) or fall back on the lowest common denominator (plain text, tab separated file) as well as deal with encoding problems. Now, however, many applications offer XML formats for their data. Both Word and Excel (at least in the Office Professional edition) support saving and opening documents as XML. This gives us the necessary window into the source, as XML documents are easy enough to reverse-engineer, even without explicit and documented schemas. Possible changes in the format between versions are hence also relatively easy to accommodate.

XSLT is used to convert between documents of one XML schema to another. Step 2 typically consists of a pipeline of XSLT transformations which convert the source XML into a simple TEI and from there into the project-required TEI encoding.

Step 3 is the syntactic validation of the created TEI by a simple XML validation against the TEI schema. Step 4 produces a "readable" version of the document. On the on hand, this has to be done for end-users (of digital libraries), but it is also of crucial importance in overcoming the second hurdle mentioned above, i.e. how to reconcile the unconstrained and presentation-oriented nature of documents, especially the ones created in Word, with the strict and interpretative TEI schemas. Namely, the HTML format, esp. with the generated table of context, indexes, use of colour etc. gives the humanities editors the feedback they need in order to validate whether their source documents are indeed well-formed; only if the structure and annotations are correct in the produced HTML, are they valid in the source. While, as will be discussed below, good guidelines are still needed, the proposed approach also enables self-correction and self-teaching of editors who ultimately produce an exact TEI document.

Finally, Step 5 is used in certain scenarios to generate Excel (XML) documents which then serve as input to the editing process, and are uploaded to the server after they had been corrected. Such automatically generated Excel documents can be quite sophisticated using a simple trick: a template Excel document is created by hand, with certain cells containing "hooks", and stored as XML. The conversion then takes this template and replaces the hooks with actual data from the TEI document, duplicating the rows as necessary.

The web service runs under Linux/Apache, using CGI/Perl. The Perl script:

1. takes the uploaded file, possibly compressed, with the archive containing multiple files;

2. calls various transformations with user-selected parameters;

3. returns the result, either directly via HTTP or as an archive file; and

4. logs each transaction, possibly archiving the input and output files.

This architecture has the following characteristics:

• it enables the editors to work with familiar and powerful tools yet produces TEI conformant output;

• it allows for a gradual learning process and step-wise refinement of the target documents;

- the data is standards-compliant (TEI, XML, (X)HTML, XSLT);
- the software components are Open Source, (Linux. Apache, Perl, libxml); and
- it is not very difficult to modify for new projects.

3. Practical implementations of the Web service

So far, the presented web service has been used in three projects / editions:

1. The eZISS (Erjavec and Ogrin, 2005) digital edition of the Collected Poems of Anton Podbevšek (1898–1981), who was a central figure of the Slovenian literary avantgarde. The edition contains facsimiles of the manuscripts and the author's emended copy of *The Man with Bombs*, transcriptions of the poems, editorial comments, notes and indexes. The variant poems and facsimiles are inter-linked. This edition has been completed and is available in HTML and TEI under the Creative Commons licence at http://nl.ijs.si/e-zrc/podbevsek/.

2. The AHLib digital library / corpus of XIXth century Slovene books. Each book in AHLib is represented by the facsimile and a structured diplomatic transcription, hand-corrected from OCR. The text is automatically lemmatised, using the methods described in Erjavec et al. (2005), and then corrected manually. This is still work in progress, although the Web interface has already been implemented, as well as a "debug" version of the TEI to HTML conversion.

3. The JOS morphosyntactic specification and hand-annotated corpus. JOS is meant as a widely-available resource for language technology research into Slovene, and we aim to hand annotate a 1M word corpus with morphosyntactic information according to the JOS specification, itself a XML/TEI document. The JOS corpus is based on the FIDA+ automatically annotated 600M reference corpus (http://www.fidaplus.net) of present-day Slovene according to the MULTEXT-East multilingual morphosyntactic specification (http://nl.ijs.si/ME/). The work on this project is just beginning, and a preliminary Web interface for manual tagging has so far been implemented, as well as the conversion of the RTF specifications into TEI and HTML.

For each project, more details about the configuration and the use of the web service are given next.

3.1 *eZISS*

The Web interface in this case supports uploading of the RTF file (the complete Collected Poems), and display or download of the derived TEI and HTML files; a screenshot from the HTML file is given in Figure 1. In this setting, Word is used primarily as an authoring environment. This was the first application of the interface, and it served as valuable experience for further development. In particular, it soon became apparent that quite exact guidelines are needed to enable the production of sufficiently constrained Word documents to enable further processing. This is why editors in all the subsequent projects have been given short course, as well as written, quite specific guidelines about what and how to annotate the source document, together with a Word dot file containing the styles used in the project.

3.2 AHLib

The AHLib Web interface, as illustrated in Figure 2, is used for correcting two types of errors. The first are errors in the text itself for which each book must be proof-read from the OCR original. At this stage text structure is annotated as well, e.g. headings (divisions), footnotes, figures, page breaks (for alignment with the facsimile), foreign language passages, critical corrections (in case of typos in the original), etc. The second type of errors concerns linguistic annotation. Each word token in the text is first automatically lemmatised and then this lemmatisation is corrected by hand.

The set-up and the intended workflow in this application are rather complicated, mainly due to the fact that there is no simple way of splitting these two annotation types into two separate stages. In particular, checking the lemmatisation often reveals overlooked OCR errors in the text which can only be corrected by going back to the RTF. A further problem is that the automatic lemmatiser (a machine learning program, coupled with a trainable tagger) has been trained on contemporary Slovene which differs considerably from the (non-standardised) language of a century ago. Therefore the lemmatiser consistently makes errors with certain archaic words.

We solved these problems by splitting the process into three stages, allowing for multiple file input and output, and up- or downloading partially corrected files:

1. The user uploads the RTF file and receives either the TEI or HTML; an example is given in Figure 3. This stage is appropriate for structuring the document and initial proof-reading.

2. The user uploads the RTF or TEI file which is automatically lemmatised and the (structured and) lemmatised version returned as TEI or HTML; an example lemmatised file is given in Figure 4. More importantly, the document lemmas are checked against a large dictionary of Slovene. The unknown lemmas are returned with word-forms and context from the corpus in an Excel table, as illustrated in Figure 5. The table is then manually checked: in case a word is a typo, it is corrected in the RTF file and deleted from the Excel table; if a word is lemmatised incorrectly, its lemmatisation is corrected, and the corrected Excel table is uploaded to the service where it serves as a gold-standard lexicon for the lemmatisation of further texts. It is also possible to perform this process cyclically by submitting the RTF/TEI files and the (partial) Excel table of unknown words together.

3. The user uploads the RTF or TEI documents, and the complete lemmatised text is returned as an Excel table, as illustrated in Figure 6. In it, the user has to check / correct the lemmatisation of each token, and finally submit the RTF/TEI together with the corrected Excel in order to arrive at the final structured and linguistically annotated TEI. Again, cyclic improvement is possible by submitting the RTF/TEI together with partial Excel. This step is slightly more complicated as Excel imposes an upper limit of 64,000 rows per table, while a book can have more than that number of words. We therefore support the download of multiple Excel files, each containing a portion of the book. Furthermore, the user has the option of retrieving the Excel in the text order or sorted alphabetically.

3.3. JOS

The JOS Web service is currently being developed for manual morphosyntactic tagging correction and tagset definition. The corpus already contains automatically assigned morphosyntactic descriptions (MSDs) and lemmas, and the annotators should be able to correct these as efficiently as possible. As Slovene is a highly inflected language, the MSD tagset is quite large, around 2,000 tags. Apart from that, the work is to be preformed by students, which is why it is imperative to ensure easy-to-reach documentation, try to prevent mistagging, and indicate who corrected what, and when.

As the first step, a small corpus from FIDA+ was extracted by random sampling (»protoJOS«, 10,000 words). Next, its lean XML schema, giving annotations as attributes of word elements, was replaced by the one that can store possibly several, possibly ambiguous annotations with each token, and also gives their origin. This XML/TEI format is illustrated in Figure 7. This corpus is stored as a database, and the user of the Web service can choose which parts she wants to annotate (currently, selection by MSD prefix is supported) and then downloads the Excel files containing the automatically annotated text. Each Excel contains several sheets, one with the annotation guidelines; one with a complete list of all MSDs with their expanded names and frequencies from the FIDA+ corpus; a front page (illustrated in Figure 8), where the annotator's name is stored together with some summary statistics (all tokens, corrected tokens, etc.); and, of course, the sheet with the MSD and lemma tagged tokens, as shown in Figure 9. For known words, the selection of the correct tag is performed via a drop down menu, where all the lexical MSDs of the token are listed. The spreadsheet has other bells and whistles, such as highlighting the corrected annotation and »focus« words, giving the expansion of automatically assigned MSDs, the KWIC for the word, etc.

After they have been corrected, the Excel files are uploaded and joined into the XML database; each token contained in the spreadsheet simply receives a new annotation in the database. Currently two HTML views of the corpus are provided – the first one highlights different PoS with different colours, while the second displays all the annotations on each token (in a pop-up window, including the annotator's name and date of the annotation).

The idea behind this somewhat complex set-up is that, ultimately, the annotators will not receive complete stretches of text to be annotated but rather only the tokens with a high probability of having a wrong MSD or lemma, thus maximising the effectiveness of the manual annotation.

The other usage of the architecture in JOS is the conversion of morphosyntactic specifications from Word to TEI. As mentioned, the Slovene MSD tagset is large, and MSD tags are structured, so that they represent feature structures. The definitions of the part-ofspeech dependent attributes and their values, their mapping to MSD tags, constraints on their well-formedness, and possibly localisations and mappings to other tagsets, as well as commentary text and notes, are enshrouded in the morphosyntactic specifications. In FIDA+ and other corpora we have used the MULTEXT-East specifications which already provided a mapping to TEI feature structures, but the source was stored and edited as a LaTeX file. The specifications for JOS, currently under development, have been significantly changed from the multilingual MULTEXT-East specification with a view of arriving at an optimal morphosyntactic tagset for Slovene. The specifications have also been recast in Word with the formal parts written as tables. An XSLT script transforms the Word/XML specifications to a canonical TEI encoding as shown in Figure 10, and checks it for consistency. From this formalised (but still tabular) and non-redundant canonical TEI, two further TEI documents can be generated, each one with a dedicated XSLT script. The first contains the TEI features structure library that should be a part of any corpus using the MSDs, while the second is a reader-friendly TEI version, with generated indexes and cross-references which can be turned into HTML with generic XSLT stylesheets for TEI, illustrated in Figure 11.

4. Conclusions

The paper has presented an environment for manual interventions into XML-based scholarly editions. The basic assumption is that it easier for authors/editors/annotators to use generic and readily available editors than to edit the XML as well as faster for computer linguists to write or modify XSLT scripts from the XML produced by editors to TEI than to

develop specialised editors for particular projects. The architecture relies on a Web service that transforms input documents into a standardised format, validates them syntactically, and returns them for semantic validation. The approach was illustrated in a setting in which Word and Excel are used for authoring or correcting the base text and word-level linguistic annotation respectively.

Our experience with the presented approach shows that it is important to give annotators a tutorial and detailed guidelines, and that the approach is mostly appropriate for shallow encodings. For example, trying to unambiguously represent nested annotations in Word (e.g. a correction consisting of a deletion and addition) or cross-references is very difficult, and complex XSLT transformations are needed to capture this information in TEI. We therefore see the usefulness of this approach esp. in collaborative projects with each annotator investing minimal time in training and annotation. Such an annotation scenario is becoming increasingly popular in the HLT community, and wider. So, for example, Mihalcea and Chklovski (2004a, 2004b) describe their "Open Mind Word Expert" site where e.g. student contributors are presented with a set of natural language (e.g., English) sentences that include an instance of the ambiguous word and are asked to indicate the most appropriate meaning with respect to the definitions provided, thus building a word-sense disambiguated corpus. Similarly, Good et al. (2006) report on an experiment where volunteers untrained in knowledge engineering developed a partial ontology via a Web interface. In a non-HLT context, a distributed approach to annotating is used by the Mechanical Turk (http://www.mturk.com/) by Amazon (also dubbed "Artificial Artificial Intelligence) where humans are paid to classify instances of e.g. pictures or texts into predetermined categories. Such tasks are posted to the Turk by companies that need large annotated datasets, typically for training machine learning systems. Both examples above are much more sophisticated than ours in terms of the number of users they allow, but much simpler in the kinds of annotations they envisage - the main difference is that they directly employ a web interface, while our architecture assumes off-line editing in Word or Excel.

As could be noticed, our approach is built around the notion of open standards and software, so a common question is why we have opted to support Microsoft Word and Excel, rather than their open source Open Office (http://www.openoffice.org/) equivalents, OO Writer and OO Calc. The reason is simple: most of the editors and annotators that we worked with, have Microsoft Office already installed on their computers, and are reluctant to install the OO suite and learn to use it. Also, in our experience, OO tools still lag behind Microsoft in

terms of usability. However, the use of the XML-based OpenDocument standard as the native format for OO applications is a significant advantage, so we might reconsider our decision in future version of the Web service.

In our further work we also plan to address the question of version control, which is currently lacking in our system, to enable multiple editors to correct a set of documents without the danger of conflicts.

References

Erjavec, T., Ogrin, M. (2005) Digitalisation of literary heritage using open standards. In Paul Cunningham, Miriam Cunningham (eds.). Innovation and knowledge economy: issues, applications, case studies, (Information and communication technologies and the knowledge economy). Amsterdam [etc.]: IOS Press, 999-1006.

Erjavec, T., Ignat, C., Pouliquen, B., Steinberger, R. (2005) Massive multilingual corpus compilation: ACQUIS Communautaire and totale. In Proc. of the Second Language Technology Conference. April 2004, Poznan.

Good, B. M., E. M. Tranfield, P. C. Tan, M. Shehata, G. K. Singhera, J. Gosselink, E. B. Okon, and M. D. Wilkinson. (2006) Fast, Cheap and Out of Control: A Zero Curation Model for Ontology Development *Pacific Symposium on Biocomputing 11*. http://psb.stanford.edu/psb-online/proceedings/psb06/good.pdf

Mihalcea, R. and T. Chklovski, Teaching Computers: Building Multilingual Linguistic Resources with Volunteer Contributions over the Web, in *The LISA Newsletter -Globalization Insider*, September 2004.

http://www.lisa.org/archive_domain/newsletters/2004/3.3/mihalceaChklovski.html

Mihalcea, R. and T. Chklovski, Building Sense Tagged Corpora with Volunteer Contributions over the Web, book chapter in *Current Issues in Linguistic Theory: Recent Advances in Natural Language Processing*, Editors Nicolas Nicolov and Ruslan Mitkov, John Benjamins Publishers, 2004.

Sperberg-McQueen, C. M. and L. Burnard, (eds.) (2002). Guidelines for Electronic Text Encoding and Interchange, the XML Version of the TEI Guidelines. The TEI Consortium, http://www.tei-c.org/

Figures

Figure 1. eZISS Project; Collected Poems of Anton Podbevšek. HTML view showing facsimile, with two transcriptions

	ijs.si/e-zrc/podbevsek/html/pdb.2.2.html#pdb.2.2.4.8	Google Google
	O prerijskem bivolu.	
	<u>Bol, Molk, V mesečini</u>	
2.3. Faksimile ročno popravljenega izvoda	2.2. Prepis	2.4. Kritični prepis ročno popravljenega izvoda
l, Molk, V mesečini [↑]	BOL. [↑]	UPANJE. ^{13 †}
Second same	Na moje okno trka ptič droban: "Bela ženka s koso ostro kosi vsak dan."	Na zamreženo okno trka ptič droban: "Smrt s koso ostro kosi vsak dan."
PRERIJSKEM BIVOLAL (RAKOR SUBLCAST TENIPEL SO NICOVI ROGON) 404 H Harris Tentens on an announce of the source Manager of the source of the source Manager of the source of	"Vsak dan maj v dušo mojo sije. Kragulji kljujejo srce, bele ženke ni je."	"Vsak dan maj v dušo mojo sije. Kragulji kljujejo srce, smrti ni je."
19 former i jannen wie under in Journamissien was, sole sone and sol of Sub-Sub-Sub-Sub-Sub-Sub-Sub-Sub-Sub-Sub-	Ptič droban z jutranjo zarjo odletel je.	Ptič droban z jutranjo zarjo odletel je.
Junif (and to tank - materia - γ/ A. The section of a schemer of material - γ/ στο μα αναγματί το μάτους στο ματος δαβά πορτοι κατος μαριά τους απός. V MESEČINI,	Dušo mojo so objele sence, molk v njej bel je.	Na steni češnjev cvet obvisel je.
In the participant water, the model of a star of difficult part of the part of the star o	MOLK. [↑]	MOLK. ¹⁴ [†]
	Breze volnene srajčice so slekle. "Kaj je z mojim rožmarinom delde?	"Kaj je z mojim rožmarinom, dekle?
	"Kaj je z mojim rožmarinom, dekle? Ali ga še zalivaš z bolnimi solzami?	Ali ga še zalivaš z vročimi solzami in grabiš temo z vitkimi rokami?"
	V noči grabiš temo z vitkimi rokami?"	
	(ONT!'	"Ne zalivam ga z vročimi solzami.
	"Ne zalivam ga z bolnimi solzami. Ne grabim v noči teme z vitkimi rokami.	Ne grabim teme z vitkimi rokami. Ko ranjene kočyte pogledi moji plabi
	V moje srce bolečine legle so in mraki.	Ko ranjene košute pogledi moji plahi, v mojem srcu bolečine so in mraki."
	Kakor ranjene košute pogledi moji plahi."	v mojem sreu ookeme so in mraki.
		V MESEČINI. ¹⁵ [†]
	V MESEČINI. [↑]	Ko se je zmračilo, sem hitel k svoji dolgolasi ljubici v črn
	Ko so padli name mraki, sem hitel k svoji tenkolasi ljubici v	grad.
	črn grad.	Z razpuščenimi lasmi je prihitela k oknu, bil na ustnih smeh ji
	Z razpuščenimi lasmi je prihitela k oknu, bil na ustnih smeh ji mlad.	mlad
	V parku, zavitem v noč, vodomet šumljal je in srce mi tolklo	V parku, zavitem v noč, vodomet šumljal je in srce mi tolklo bolno.
	bolno.	Vrgla se je koprneča na moje prsi in sem se zagrebel v obleke
	Vrgla se je koprneča na moje prsi in sem se zagrebel v obleke njene toplo	
	volno.	

🥹 Korekture AHlib - Mozilla Fire	efox			
<u>File Edit View History Bookman</u>	ks <u>T</u> ools <u>H</u> elp			0
 	📩 http://nl.ijs.si/ahlib/	7	G Google	Q
🎪 Korekture AHlib 📋 Reading Tutor S	Sloven 🗋 New Sketch Engine s	. 🙆 World Wide Words: C.	📄 e-ZISS: Elektronsk	ez »
🤤 Disable• 🚨 Cookies• 🔤 CSS• 📰	🛛 Forms 🛛 🔳 Images 🛛 🕕 Informat	ion• 🏐 Miscellaneous• 🥖	Outline 📲 📲 Resize * 🥜	' Tools+ 🔁 Vie
	e de	26	. Sec.	^
Korekture AH	llib 🔍 🗠 之			Les
Dokumentacija				. el
 navodila arhiv pretvorb depo leksikona AhLib 				e
Pretvorba				st
	ih besed: UNK in RTF (ali D esed: ALL in RTF (ali DOC		Browse	S.
Sec. 3			. See	
Prikaži Poberi Končnica	Razlaga			5.05
RTF xxx.rtf	Izvorna datote	ka Word		
O DOC DOC XXX-doc.X		CML		
⊙ HTM ☑ HTM xxx-doc.h	and the second se			- CL
O ANA ANA XXX-ana.		sedilo TEI/XML		
○ HTM □ HTM xxx-ana.l				1
O UNK UNK xxx-unk.				1 22
O ALL ALL xxx-all.(x	and a second	vseh besed Excel		
○ PDF □ PDF xxx.pdf		- velika datoteka!		18
DBG xxx.tmp	Pomožne datot	eke	Lass.	a See
Nastavitve konkordanc: Vrstic po razpredelnici:	: O 10k O 1k			08
Verzija Excel: Pro 	fessional 🔿 Navaden			224
Sortiranje vseh besed: Slov	varsko 🔿 Po besedilu	adda	Altra	až
UNK Preveri Depo				
Pozor: deponirajte samo dobro	preverjene leme!			
Find:	Next 🏦 Previous 📄 Highlight a	Match case		
Done				8

Figure 2. AHlib Project; Web interface.

	http://nl2.ijs.si/ahlib/cgi/ahlib-cn	v-v2		• D Ibxml	A = A A
Index of /ahlib/doc/a	🌿 Telefonski Imenik Slo 🔝	📄 Reading Tutor Slove 区	📄 Ryanair.com - The L 🗵	Index of /ahlib/facs	🔄 📄 DVE POVESTI (200 🔯 👻
• (5.1) L					<u>^</u>
 ○ (5.2) Ⅱ. 					
 (5.3) III. 					
 (5.4) IV. 					
 (5.5) V. 					
 (5.6) VI. 					
 (6) B. Kanarčik. 					
 (6.1) I. 					
• (6.2) II.					
 (6.3) III. 					
 (6.4) IV. 					
 (6.5) V. 					
 (6.6) VI. 					

Figure 3. AHlib Project; HTML, start of text view.

Kazalo po straneh

01(0001, 02(51, 03(51, 04(61, 05(71), 06(81, 07(91), 08(101), 09(111), 10(121), 11(13), 12(14), 13(151, 14(16), 15(171), 16(18), 17(19), 18(201, 19(21), 20(22), 21(23), 22(24), 23(25), 24(26), 25(27), 26(28), 27(29), 28(30), 29(31), 30(321, 31(33), 32(34), 33(35), 34(36), 35(37), 36(38), 37(39), 38(40), 39(41), 40(42), 41(43), 42(44), 43(45), 44(46), 45(47), 46(48), 47(49), 48(50), 49(51), 50(52), 51(53), 52(54), 53(55), 54(56), 55(57), 56(58), 57(59), 58(60), 59(61), 60(62), 61(63), 62(64), 63(??)

Besedilo (63 strani)



p.2: v Ljubljanski duhovšnici.

Drugi natis.

p.4: V LJUBLJANI.

p.5: Natisnil, založil in na prođaj jih ima Jožef Blaznik, na brégi, Nr. 190.

p.6: 185

i3.		
	[5][5]	
		I.
	It is a subject to the second seco	p.7: Na Sokólovski grajšini je živel pred več sto let serčni vitez Teobald s svojo pobožno ženó Otilijo. Vitez je bil ravno takó blaziga kot junaškiga sercá. Za vse stiskance po celi deželi se je zlo poganjal, pa zató še hvale ni hotel. Rádost, ljudi osréčiti, mu je bila že dovôlj plačila. Otilija je réveže obilno obdarovala, je obiskovala bolnike po kóčah bližnjih dolin, in njen grad je bil zavetje vsim ubozim, ki so bili pomoči vredni. Tudi Neža, edina hči teli zalih staršev, gospodična per osmih létih, je bila zgolj dobrota in perjaznost do ljudi. Zanjo ni bila večiga veselja, kot druge oveselováti. Stariše in hčer je vse spoštovalo, in kdor koli je visóki Sokólovski stolp ali turn od déleč ugledal, je blagroval dobrotne, tam stanujoče ljudi. In gotovo je bil Doži blagoslov (ali čegen) prav vidama nad Teobaldam, Otilijo in Nežo. Desiravno so veliko razdelili, so vender vsiga dovôlj imeli, ker so bili smed nar_bogatiših blagoródnih družin tiste dežele.
	Online in Natio pay shall shoul variate offerings and/pay in planning in payment in varia, by the methods (in planning) variation variants on the methods (in planning) variation variants on the methods (in payments), but as hit works, in minute and assistants proyon in californi, Ra- mings and assistants proyon in californi, Ra-	p.8: Bil je lep, jasen poléten dan, ko greste Otilija in Neža po obédi skosi vratica v dvornim ozidji po kamnitnih stopnicah na vert, ki je bil navdol hriba. Z veseljem zagledate, kako lepó sinjkljati (ali plavkasti) võhrovt raste, in se vertnični popki prézajo; kako se bõb ovija, in češnje med
	[6] časa postojité par vodos	začernélim perjem že rudečijo. Nekaj kôki v sredi verta, in se razveselujete nad izranjem vodé, ki je v solnčni svitlobi bistra ko golot (ali kristál) kviško vrela, in v kapliicah, pisanih ko
positive per technical e need term, resolution and granutur techn, bije v tick boom in grant solutional tech-	mavrica, zopet spadávala. P	to tem se usédete v lepó omréženo lopo, ob ktéri se vinske terte ovijajo, in pridno dodelujete oblačilo za néko siróto. Vse po verti je tiho in pokojno; le
dividu. Pe imi or police - but anothe, dividu. Pe imi or police - but anothe, of give or finale are sold, debine official as polici atom. Yes	penica je se verh bližnjiga di	revesa prelepó popévala, in od vodoskóka se je neprenéhama slišalo perjetno vodno šumenje.
o Alle in printipal population priori territo dimensis printipal population, to est territo printipal population values of argument former solution prototion values inglinese, der im visiki protote hilte et antent,	p.9: Nanáglima, de še viditi	neste bile v stani, kaj de si je, nekaj v lopo perleti. Obé se stráhama pogledujete. Ko bi trenil, se velik ptič z razprostertimi perutami pred lopo spusti,

po ljudi vnjej zaglédavši préc spet odleti. Neža je vsa plašna, de se ne gane; še ozreti se, si ne upa, kaj de bi bilo tako umo v lopo pertekto. Tode mati ji reče posmehlje se: "Nikar se ne boj! Kaj če něki biti, kot kaki ptiček, ki je jástrobu uběžat". Pogléda in zavpije: "Glej, glej golobčika, beliga kakor snég! Ves prestrašen se ti je za herbět skril". Ga prime, ter se v Nežo ozre in ji reče: "Véš kaj, za večerjo ti bom golobčika spekla".

p.10: "Kaj spekli?" reče Neža z zavzétjem, ter z obéma rokama golobčika popade, ravno kakor bi ga hotla zažugani smerti otéti: "Ne, ne, ljuba mati," ji reče, "to ni bila vaša prov. jeda preku: nec veza z zavzejem, ter z ovem rokama govočna popose, navno kakto je jed Grovo je belko sneg, in njegove nožice, le pogleje, kakto so lepo rudeče kot koralde. Vite, kakto je jed Grovo je belko sneg, in njegove nožice, le pogleje, kakto so lepo rudeče kot koralde. Vite, kakto mu še sercé utripa! Z svojima nedolžnima očešcama me takto milo pogleduje, kakto i mi [7] hotel reči: Nikar mi nič žaliga ne stóri! — Prav nič ti ne bom storila, ljuba živalica, nési se zastonj k meni zatekla. Per meni ti ima dobro biti".

hert coli. Nor al al telas e suil -. Pas-si o av has more, tela states, ou at sense i nor santis. Po nor c us dire p.11: "Práv imaš, ljubi otrôk", ji mati perjazno reče, "mojo misel si zadela. Le skusiti sim te hotla. Něsi golobčika v svojo stanico, in mu daj piče.

Figure 4. AHlib Project; HTML end of text and start of annotation view.

🗣 • 🔿 😒	1.a http://nl2.ijs.si/ahlib/cgi/ahlib-cnv-v2#p.1.a	▼ ▶ G- libxml	 	×		
📄 Jožef Otmar, po m	i losti božji kne 😰 🛛 👳 Telefonski Imenik Slovenije 💿 📄 Reading Tutor Slovene mirror	🖸 🗋 Ryanair.com - The Lo	w Fares Airline	-		
na toliko, da od obe	la ostavšo meso u večer smejo pojesti, tudi tisti, kteri težko delajo, ino kteri po presodi vra	ačitelja mesene jedi potrebujejo. N	ikakor se	~		
nedopušča, da bi u ta	akih dnevih, po kterih je mesena jed iz perzaneslivosti dovoljena, kak tudi ne po nedeljah s	vetega posta, k mesenim jedilom ri	be se pristavljale.			
p.18: Zapoved od mesojeje se zderžavati ne preteže se na bolene, tudi ne na siromake, kteri od darov dobrih ljudih živijo, ali pa drugač u velikem siromaštvu se znajdejo.						
p.19: Kteri pa bi zbo	g posebnih zrokov obiljnejšega dovoljenja potrebuval, si ga ma od škofivstva sprositi.					
	odeljenega perpuščenja poslužjo, imajo vsaki den, kada od mesenoga jejo, pet očanašov i, ali pa svojemu premoženju primerjeno vbogaime dati.	ino pet češena si Maria na čast brit	tkemu terplenju ino			
State in a state of a difference space for	[8]					
And the other states and the state	p.21: Klošterski se imajo postiti, kuk njim njihove postave zapovedajo. Častitim duhovnil	kom se stem nalaže da to pastirsko	pismo svojim			
Joint Ohmon,	farmanom na mastno nedelju oznanijo, ino opomembe, ktere bi morebiti po različnih kraji	ih potrebne bile, pristavijo.				
	p.22: Dano u Gradcu na nedelju septuagesime, 8. svečnja 1852.					
	p.23: Jožef Otmar,					
	Knezškof.					

Analiza

p.1

• Br.330/2br.330/2

.24: Natisjen pri Kienreich.

p.2

• Letoleto 1852 .

head.1

 Jožef_{jožef} Otmarotmar, po milostimilost božji knezoškof Sekovskisekovski, oskerbnikostrbnik Lujbnsketujbnski škofiješkofija, itd. itd. vsemves vernimveren Sekovskesekovski inom Lujbnsketujbnski škofiješkofija vseves dobrodober od Bogabog želimželeti

p.3

- Kerščansko_{kerščanski} prepričanje (vera) je_{biti} živlenjativljenje duh, kterikateri vsegaves človeka_{človek} prevzeme_{prevzem}, inojn kterikateri se očituje_{očitovati} u vsakom_{vsak} njegovom_{njeg} djanju_{dejanje} inojn tersenju_{tersenje}.
- Vseves postavepostava in naredbenaredba cerkvenecerkven imajoimeti za nalogunalog, dadati zbudijozbuditi inoina jačijojačiti tototot kerščanskokerščanski prepričanje, dadati gaon čistijočistiti inoin branijobraniti ; inoin ravno zato se pretežepretežiti njihov upliv na vseves okolnosti_{okolnost} posameznihposamezen ljudičlovek, inoin skupčineskupčina.
- Od_{od} tegata se jasnojasen inojn popolnoma prepričati, ako poglednemo_{pogledniti} na svedkovanje nedeljenedelja, kak jebiti po prepisuprepis katoličkekatoliček cerkvecerkev svetiti zapovedanazapovedati.

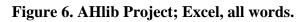
p.4

- Človek človek se moramorati skerbeti skrbeti skoz upotrebovanje svojih svoj telesnih telesen močimoč za potrebe potreba časnoga življenja življenja življenja za potrebe potreba časnoga življenja za potrebe potreba po
- Skozskoz nevtrudljivonevtrudijiv delavnost sise moramorati iz zemljezemlja sad pridelati , iz sirovoga plodaplod njenoga kruh načiniti , kterikateri gaon hranihraniti , oblačilooblačiti storiti , s kterimkateri se oblačioblačiti , inom hram sise podignutipodignutiti , pod kterimkateri najdenajti zavetje inom strehu .
- Težavnatežaven inoin dolgoterpnadolgoterpen reč jebiti , kterakateri velikovelik trudatrud inoin napinjanjanapinjanje stojistati , dokler se človeškočloveški družtvodruštvo u dobrovredjenodobrovredjen edinost spravispraviti tak , dadati enoen na drugemdrug naslonjenonasloniti skoz pravičnost vseves se ravnaravnati inoin branibraniti .
- Papa pri vsemves temta se terjaterjati, dadati jebiti namen, inoin sercesrce človekačlovek od posvetnihposveten rečireč prostoprost, inoin obernjenoobmiti u višavevišava nadzemeljske, dadati vseves, kaj god človek poprimepoprijeti inoin deladelo, kak Bogbog hočehoteti, inoin kajti jebiti njemuon tak dopadljivodopadljiv; drugačdrugače se znebiznebiti zaslužbe, inoin jebiti sirota, ako ravno mislimisliti, dadati jebiti bogat.
- Milostiva_{milostiv} previdnost vsemogočega_{vsemogoč} Boga_{bog} je_{biti} podala_{podati} človeku_{človek} eden den za počitek, u kterem_{kateri} se naj spomnis_{pomniti} ' z svojega_{svoj} cilja_{cilj}, u kterem_{kateri}, oslobodjen od posvetnih_{posveten} skerbih_{skerbi} inojn poslov_{posel}, se naj skerbis_{krbel} za večnost.

~

Aria	al		- 10 - B	r <u>u</u> ≣ ≣ ≡		፼ 🤧 % , 🐭 💥 ≇ ≇ 🖽 - 🂁 - 🗛 -	÷	
3	<u>Eile E</u> di	t <u>V</u> iew	Insert Format	<u>T</u> ools <u>D</u> ata	<u>W</u> ind	low Help Adobe PDF	Type a question	for help 🛛 🚽 🗗
	📬 🔒	18	Q 49 B	x 🖻 🖺 • 🕩	117	- (" - 😫 Σ - A + Z + A + 🛄 📣 100% - 🔞		
	dia dia 1	2 5	21551	Ba na levana	nlv v	vith Changes End Review 📳 🔁 🔁 🕄	-	
	D2		f₂ 30.listo		HIX.7			
-	A	B	C C	D	E	F	G	
1	lexi		beseda	lema	stat	levi kontekst	beseda	desni kontekst
2	1	3494			unk		30.listopada) ; pred čistim sr
3	2		aldova	ald		zgled vere ino pobožnosti uzvišenost potalažljivoga	aldova	pred oči postavi
4	3	605	aldov	ald		predgi se oznanujejo ino razlažejo razodete istine .	aldov	novoga zakona :
5	4	462	aldovati	aldovati		vunajšemu življenju odrečemo , se ima notrajnomu	aldovati	. [p.4] Jno tak b
6	5	2150	aldujejo	aldovati	unk	noženje ino silni posli dopuščajo , vsaki den veselju	aldujejo	. [p.9] Tisti pa ,
7	6	3480	apoštolov	apoštol	unk	29 . [p.14] rožnika) ; na navečer ss ,	apoštolov	Petra ino Pavla
8	7	810	barem	bareti	unk	mehovanja Boga ino zdravoga razuma odurjava , ali	barem	zato , kajti nje u
9	8	1177	=	=	unk	serce segreti . [p.6] Ali , ako drugo ne ,	barem	ze u njegovoj du
10	9	1780	bedastoče	bedastokati	unk	vošljivosti ino zdvojenja vužgani delavec neverojatne	bedastoče	za čistu istinu d
11	10	1981	berže	beržati	unk	kajti ravno zdaj nič drugega si začeti nevé , skem	berže	stem bolje tihu r
12	11	1599	bezbošnu	bezbošnu	unk	ejo u roke kak sramotni list , mesto evangelja kako	bezbošnu	knjigu od učenk
13	12	3474	binkosti	binkost	unk	sredu ino petek adventa 4. U sobotu pred duhovim (binkosti) (29 . [p.14] ro.
14	13	493	blagonosni	blagonosniti	unk	[p.4] Ino ravno skoz to razprestira toti den počitka	blagonosni	upliv med vsaki
15	14	1765	blagostanjiu	blagostanjio		ne deržati morali , ako nebi prepad grozile občemu	blagostanjiu	. [p.8] Jeli se ter
16	15	697	bludečim	bludekaj		diguje padše , ona se poda skoz svečane glase za	bludečim	po stezi hudobe
17	16		Bluma	blum		mesto evangelja kako bezbošnu knjigu od učenkov	Bluma	ino Ronge-a spi
18	17	962				posameznomu , da se tak vsi uzajemno u veri ino	bogaboječnovti	ojačijo , Po doko
19	18		bogatstva	hogatstvo	unk	In 51 Sveta cerkva razvija na toti den vse duhovne	honatstva	ktere so u nien

Figure 5. AHlib Project; Excel, out-of-vocabulary words.



Aria	al		- 10 - B	IU≡≣	=	ਔ 📆 %) 🐝 🐝 ோ ோ 🔛 • 🖄 • 🗛 •	-	
	Eile Edi	t <u>V</u> iew	Insert Forma	t <u>T</u> ools <u>D</u> ata	Wind	low Help Adobe PDF	Type a question	for help 👻 🗕 🗗
D		A	Q 1 🧐 🛍 1	🔏 🗈 🙈 - 🥩	110	- (* -) 🔒 Σ - A J A J 🛄 🛷 100% - 🕝		
-	dia tha					vith Changes End Review		
-	D0				epty v	nun Ghanges Eine Kevlew 🖻 : 🔽 🕼 🔊 🖻		
-	D2	B	f≈ 30.listo C	D D	E	F	G	1
1	A		beseda	lema	stat		beseda	desni kontekst
2	1		30.listopada	30.listopada	unk		30.listopada) : pred čistim s
3	2		adventa	advent	Dell	2. Vsake kvatre . [p.14] 3. Vsaku sredu ino petek	adventa	4. U sobotu pre
4	3		advent	advent		(razvun nedelje) , ino po sredah skoz celi	advent	se sme meso
5	4	1999	17.00 C C C C C C C C C C C C C C C C C C	ah		kak izgled . [p.9] Velika (péta) meša .	ah	tota se njim že
6	5	1484	Ako	ak			Ako	ravno se pri nas
7	6	2370	Ako	ak		spomin Gospodovoga od mertvih ustajenja . [p.10]	Ako	ravno vsaki svet
3	7	3180	Ako	ak		2] Gostokrat pa se od vsakega nekaj zgodi . [p.12]	Ako	ravno prosti člov
9	8	89	ako	ako	ahl	[p.3] Od tega se jasno ino popolnoma prepričamo ,	ako	poglednemo na
0	9	228	ako	ako	ahl	; drugač se znebi zaslužbe , ino je sirota ,	ako	ravno misli , da
1	10	702	ako	ako	ahl	z svečane glase za bludečim po stezi hudobe ; ino	ako	ravno slepotu in
2	11	762	ako	ako	ahl	1	ako	ravno hudobija i
3	12	827		ako	ahl	[p.6] Ne nam treba na daleki pot se podati ,	ako	želimo u živem
4	13	1004		ako		jah méj lepoga zaderžanja ino zmernosti ; ino tak ,	ako	veselja zmerno
5	14	1129		ako	ahi	dgi čul , kakti strelica njegovo serce prebodne : ino	ako	oko oberne na o
6	15	1174		ako	ahl	persa segnuti , ino serce segreti . [p.6] Ali ,	ako	drugo ne , bare
7	16	1249		ako		, ktero vuči pravu nalogu našega življenja . [p.6] Ino	ako	ravno nekteri iz
8	17	1398		ako	ahl	bi človek slobodno lenuvul ; samo u nedelju , ino	ako	več ne , saj pre
9	18	1541 /se bese		ako	ahi	na dušnona zveličenia tiče : pilhova vést zasni ino	ako	se včasi predrar

🗴 <oxygen <="" th=""><th>> - [\\Mantra\tomaz\jos\corpus\test1k-ann.xml]</th><th></th><th>×</th></oxygen>	> - [\\Mantra\tomaz\jos\corpus\test1k-ann.xml]		×
Eile Edit	Find Project Perspective Options Tools Debugger Document Window Help		
i 📄 🗎 i 🕽	🖣 📄 External Tools 🗸 💷 LIBXML 🗸 🔍 🗳 😂 🗶 📄 🔂 🧑 🦛		Ţ
:			
XPath 2.0 👻	🔜 🛸 📑 🔂 🖉	s 🖁	5
• josMSD-06-p		₫ ▷ (9
4914	/ana>		Information
4915			rmati
4916 Vr	<tok <br=""><tok id="F0043750.660.1.13"></tok></tok>		9
4917	<pre></pre>		_
4918 -	<w>211agaia <ana resp="BLAŽ" time="2007-04-24T04:48:37Z" type="manual"></ana></w>		l 🛃
4919 -	<fs></fs>		Properties
4920			erties
4920	<f fval="Gpdr-eztd" name="msd"></f> 		
4922		6	1
4922	 <ana resp="amebis" type="disamb"></ana>		
4924 -	<fs></fs>		XPath Builder
4925 -	<fname="lemma"></fname="lemma">		ilder
4926	<str>zmagati</str>		-
4927			0
4928	<pre>>//< <fname="msd" fval="Gpdr-dmtd"></fname="msd"></pre>		ğ
4929			Scratch Buffer
4930			Buffe
4931 🗸	<pre><ana resp="amebis" type="lexicon"></ana></pre>		4
4932 -	<fs></fs>		
4933 -	<pre></pre> <pre></pre>		
4934	<str>zmagati</str>		
4935			
4936 🗸	<falt></falt>		
4937	<f fval="Gpdr-dmtd" name="msd"></f>		
4938	<f fval="Gpdr-eztd" name="msd"></f>		
4939	<f fval="Gpdr-estd" name="msd"></f>		
4940			
4941			
4942			
4943			
4944 🗸	<tok id="F0043750.660.1.14"></tok>		
4945	<w>na</w>		
4946 🗸	<pre><ana resp="NINA" time="2007-04-06T10:37:07Z" type="manual"></ana></pre>		
4947 🗸	<fs></fs>		
4948	<pre><f f∨al="Dpem" name="msd"></f></pre>	××	
	U+003C 4916:13		

Figure 7. JOS Project; XM/TEI, Annotation.

	Mici	osoft Excel - test1k-Glon	g-xml.01.xls						
Ari	ial	- 11 - B	IU ≣≣≣≣	🦉 % , 👬	律律 🖽 • 🖄	- <u>A</u> -			
:3	File						Type a question for help		a x
	1 100				1 21 42 3		() pe a decener (a trab		
			, 👗 🛍 • 🝼 🤊 -	(" + 😸 Σ + Ž	↓ Á↓ 🛄 🦓 100%	* 🕑 👳			
1	1	00000000000	Reply with	Changes End Revie	w 📱 🔁 🖚 🖚	- Microsoft Excel H	elp (F1)		
	F					×			
	-	B	C	D	E	F	G	Н	
		1		_	the second second				Ê
		JC)S	Korel	cije oblikos	lovnega ozn	ačevanja		
1									
2		http://nl.ijs.si/jos/ai	nn/		Označevalec	BLAŽ			
3							JOS ana2xis 0.1		
4		ID			G.*	Vrstic	1.303		_
5		Korpus	2007-03-23	Format	xml	Pojavnic	1.214		-
_						Vseh besed			
		Navodila	2007-03-28	Rezina	1/1	Izbranih besed	185		
	4 1								
			2						
			-						
	rial • 11 • B Z II E E E III III • Addge PDF Type a question for help • 6 × Ele Edit View Insert Format Iools Data Window Help Addge PDF Type a question for help • 6 × IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII								
14	Arial - 11 • B I U E E I I 9 % , 10 % 23 F F I • · · · · · · · · · · · · · · · · · ·								
1.1		A Transformed A Anotacji	 V Hooli V Havodila V 		1 1 1				

Figure 8. JOS Project; Excel, Front sheet.

Figure 9. JOS Project; Excel, Morphosyntactic Annotation Sheet.

Cou	rier New	• 12 •	B <i>I</i> <u>U</u> ≡	E 🚍 🗏 🛃 🛒	%	• • • • • • • • • • • • • • • • • • •	•	<u>≫</u> • <u>A</u> • <u></u>		
9	<u>File</u> <u>E</u> o	lit <u>V</u> iew <u>I</u> nsert	F <u>o</u> rmat <u>T</u> ools	Data Window H	elp	Adobe PDF		T	ype a questi	on for help 🛛 🗕 🗗
	📬 🔒	13 3 3 3	🛍 🕹 🖻 🖱	(*	+	$\bigotimes \Sigma \cdot \bigwedge^{1}_{Z} X \downarrow X \downarrow \coprod A $	100	0% - 🕜 📃		
	¢1 \$1					End Review 📳 抗 跎		100		
	E15	the second s	Gvpsted	1 A & Reply Hun Grou	ige	····	1870			
1	A	C C	D	E	Н		J	К	1	
1		beseda	lema		amb				beseda	desni kontekst
2	1	<div></div>								
3	2									
4	-	<s></s>								
5		Slavko	Slavko	Slmei	2/3	noški ednina imenovalnik				
6		Dragovan	Dragovan	Pkomein	2	a imenovalnik -določnost				
7	6									
8		župan	župan	Somei	1/2	noški ednina imenovalnik				
9		občine	občina	Sozer	3/5	ne ženski ednina rodilnik				
10		Metlika	Metlika	Slzei	1/2	enski ednina imenovalnik				
11	10									
12		Se	še	L	1	Členek				
13		nikoli	nikoli	Rso		Prislov splošni osnovnik				
14		me	jaz			+naslonka samostalniški				
15		ni	biti			ijik tretja ednina zanikani		pčine Metlika : Še nikoli me	ni	bilo tako strah pod
16		bilo	biti	!Gvdr-est		njik ednina srednji tvornik		ne Metlika : Še nikoli me ni	bilo	tako strah podpisa
17		tako	tako	Rso		Prislov splošni osnovnik				
18		strah	strah	Somei		noški ednina imenovalnik				
19		podpisati	podpisati			enski nedoločnik dovršni		nikoli me ni bilo tako strah	podpisati	kakšne pogodbe k
20		kakšne	kakšen			dnina rodilnik pridevniški				
21		pogodbe	pogodba	Sozer		ne ženski ednina rodilnik				
22		kot	kot	Dpei		g enostaven imenovalnik				
23		prav	prav	Rso		Prislov splošni osnovnik				
24		pogodbo	pogodba	Sozet		ne ženski ednina tožilnik				
25		za	za	Dpet		redlog enostaven tožilnik				
26		vrtino	vrtina	Sozet	2	ne ženski ednina tožilnik				
27	26									
28		<s></s>	la a da la a							
29		Podpisuješ				ina nezanikani nedovršni			Podpisuje	nekaj , za kar deja
30		nekaj	nekaj	Zntset	2/3	na tožilnik samostalniški				
31	30	Naslovnica Anot					<			>

🗴 <oxyger< th=""><th>n/> - [C:\Documents and Settings\tomaz\Desktop\JOS\Convert\josMSD-06-spec.xml]</th><th>X</th></oxyger<>	n/> - [C:\Documents and Settings\tomaz\Desktop\JOS\Convert\josMSD-06-spec.xml]	X
Eile Edit	Find Project Perspective Options Tools Debugger Document Window Help	
8 💽 🎴 8	🛩 🖷 📰 🔚 External Tools 👻 LIBXML 🚽 🔍 📲 🗳 🖂 💥 📄 😭 🌠 🧭	**
: 💶 📕 : '		
XPath 2.0 👻	· 💊 🦉 💆 📑 🔧 🖉 🧕	2
😑 josMSD-06	5-prn.xml × ● tei2tei.xsl × ● josMSD-06-spec.xml* × ● upc2tei.xsl × 4 ▷	Ξ
55 🗸	<div type="level-4"></div>	Info
56	<head>Atributi in vrednosti</head>	Information
57 🗢		3
58	<head>Tabela atributov in vrednosti za samostalnik</head>	
59 🗸	<row role="type"></row>	
60	<cell role="position">0</cell>	Properties
61	<cell lang="sl" role="name">besedna_vrsta</cell>	rties
62	<cell lang="sl" role="value">samostalnik</cell>	
63	<cell lang="sl" role="code">S</cell>	11*
64	<cell lang="en" role="name">Category</cell>	
65	<cell lang="en" role="value">Noun</cell>	XPath Builder
66	<cell lang="en" role="code">N</cell>	lider
67		
68 🗢	<row role="attribute"></row>	
69	<cell role="position">1</cell>	ы К
70	<cell lang="sl" role="name">vrsta</cell>	at ch
71	<cell lang="en" role="name">Type</cell>	Scratch Buffer
72 🔜	<cell></cell>	Ľ
73 🗢		
74 🔜	<row role="value"></row>	
75	<cell lang="sl" role="name">občno_ime</cell>	
76	<cell lang="sl" role="code">o</cell>	
77	<cell lang="en" role="name">common</cell>	
78	<cell lang="en" role="code">c</cell>	
79		
80 🗸	<row role="value"></row>	
81	<cell lang="sl" role="name">lastno_ime</cell>	
82	<cell lang="sl" role="code">l</cell>	
83	<cell lang="en" role="name">proper</cell>	
84	<cell lang="en" role="code">p</cell>	
85		
86		
87		
88		
89 🔻	<pre><row role="attribute"> </row></pre>	
🇞 🛆 F Eleme	nt type "div" must be followed by either attribute specifications, ">" or "/>".	
	U+0020 57:14	

Figure 10. JOS Project; XML/TEI, Morphosyntactic Specifications.

🗣 🔹 📄 😴 🚱 🟠 📄 file:///C:/Documents%20and%20Settings/tomaz/Desktop/JOS/Convert/josMSD-06.html#body.1_div.1 🔻 🕨 💽 🕞 ocogle 🔍 _ 🗗 🗙 📄 Korekture JOS Specifikacije JOS • ^ 1.2.10. MEDMET 1.2.10.1. Atributi in vrednosti 1.2.11. OKRAJŠAVA 1.2.11.1. Atributi in vrednosti 1.2.12. NEUVRŠČENO 1.2.12.1. Atributi in vrednosti 1.2.12.2. Spremembe glede na FIDA/MULTEXT-East 1. Oblikoslovne specifikacije JOS Zadnja sprememba 2007-05-27 1.1. Tabela besednih vrst Se ni! Splošne opombe: 1. kaj z vidom 2. preverit, da so oznake in atributi konsistentni po vseh besednih vrstah! 3. Tomaž, narediti naslednjo verzijo specifikacij 4. Tomaž et al: kako in kam namestiti avtomatsko preimenovanje MSD glede na lemo-besedo 1.2. Tabele atributov in vrednosti 1.2.1. SAMOSTALNIK 1.2.1.1. Atributi in vrednosti Table 1. Tabela atributov in vrednosti za samostalnik P Atribut Vrednost K Attribute Value C 0 besedna vrsta samostalnik S Category Noun Ν občno_ime o Type 1 vrsta c common lastno ime l proper p 2 spol moški m Gender masculine m ženski f z feminine srednji neuter s n 3 število ednina e Number singular s dvojina d dual d množina plural p m 4 sklon imenovalnik i Case nominative n rodilnik r genitive g dajalnik d dative d tožilnik t accusative a mestnik m locative 1 instrumentali orodnik 0

Figure 11. JOS Project; HTML, Morphosyntactic Specifications.

У

Y

d Animate yes

Match case

5 živost

🖸 Find:

da