TECNICAL UNIVERSITY OF MADRID COMPUTER SCIENCE SCHOOL

PRACTICAL WORK

DEVELOPMENT OF A CULTURAL EVENT ONTOLOGY REUSING GENERAL ONTOLOGIES

Invited teacher: Mariano Fernández López San Pablo CEU University

Course in Ontologies and the Semantic Web in the Master in Artificial Intelligence

Course 2011-2012

OUTLINE

1	COMPETENCES TO BE ACQUIRED (OR STRENGTHENED)	3
	NUMBER OF COMPONENTS OF THE WORKING GROUP	
	TASK TO CARRY OUT	
	THE REOUIRED PRODUCTS	
	DEADLINE	
_	OUESTIONS	

1 Competences to be acquired (or strengthened)

The students should acquire the following competencies:

- 1) Methodological ontology development.
- 2) General ontology reuse.

2 Number of components of the working group

The working group must be made up by one or two members.

3 Task to carry out

Each student must develop a cultural event ontology that answers, at least, the following competency questions (CQs)¹:

CQ id	Informal CQ	Answer	Comment
CQ ₁	When does the London Symphony Orchestra play in October of 2011?	1 st , 2 nd , 4 th , 6 th , 7 th , 9 th , 11 th , 12 th , 13 th , 14 th , 15 th , 16 th , 19 th , 20 th , 21 st , 23 rd , 27 th , 30 th , 31 st of September of 2011.	
CQ ₂	What works were interpreted by the London Symphony Orchestra in the concert of the 4 th of October of 2011?	 Haydn Symphony No 92 ('The Oxford') Nielsen Symphony No 1 Beethoven Piano Concerto No 3 	
CQ ₃	What works will be interpreted by the London Symphony Orchestra during the 2010/2011 season?	 Beethoven Piano Concerto No 3 Beethoven Piano Sonata No 10 in G major Beethoven Piano Sonata No 22 in F major Beethoven Piano Sonata No 15 in D major ('Pastoral') Haydn Symphony No 92 ('The Oxford') Nielsen Symphony No 1 	
CQ ₄	What works are repeated in several concerts of the London Symphony Orchestra 2010/2011 season?	- Britten War Requiem	It is interpreted, at least, the 9 th and the 11 th of October of 2011.
CQ₅	What are the groups of instruments of the London Symphony Orchestra?	First violins.Second Violins.Violas.Cellos.	
CQ ₆	Who are London Symphony Orchestra's first violins?	 Gordan Nikolitch Roman Simovic Ginette Decuyper Jörg Hammann 	
CQ ₇	Who are London Symphony Orchestra's first violin leaders?	Gordan NikolitchRoman Simovic	

IMPORTANT NOTE: it is not necessary to be exhaustive introducing information in the system. It is only necessary to introduce the data that allow the student to test the built ontology.

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¹ The student can find information on the London Symphony Orchestra in http://lso.co.uk/whatson/programmes for the programmes and http://lso.co.uk/page/3128/Players for the structure of the orchestra

4 The required products

The students must deliver:

- 1) A report
- 2) The resulting ontology in OWL.
- 3) A file with the CQs of section 3 in SPARQL.

The report must be delivered in paper and e-mail to the addresses: <u>mfernandez.eps@ceu.es</u> and <u>masterr09@delicias.dia.fi.upm.es</u>. It is preferable Word format, although PDF will be also accepted. Concerning the resulting ontology and the SPARQL questions, they must be sent by e-mail to the aforementioned addresses.

The report must have, at least, the following parts:

- Title page. It will contain, at least, the name and the e-mail address of the student.
- Introduction.
- The development of the work. It should include, at least, the following information (making emphasis in the difficulties):
 - a) The comparative study of general ontologies.
 - b) The making of the decision of what general ontologies have been reused.
 - c) The customization and integration of the general ontologies.
- Filled questionnaire (see Table 1).

5 Deadline

The products must be delivered by the 4th of November of 2011.

6 Questions

You can pose them through <u>mfernandez.eps@ceu.es</u>

Table 1. Questionnaire about the proposed methodological guidelines to reuse general ontologies.

Question		-	_	Score		+	
		1	2	3	4	5	
THE	PROVIDED MEREOLOGY MODELING DESCRIPTION						
1.	Is it precise enough?						
2.	Is it understandable enough?						
3.	Is it complete enough?						
4.	Are all its explanations necessary?						
THE	PROVIDED TIME MODELING DESCRIPTION						
5.	Is it precise enough?						
6.	Is it understandable enough?						
7.	Is it complete enough?						
8.	Are all its explanations necessary?						
THE	PROVIDED GUIDELINES TO ELABORATE THE COMPARATIVE STUDY						
9.	Are there precise enough?						
	Are there understandable enough?						
	Are there complete enough?						
	Are all their explanations necessary?						
THE	PROVIDED GUIDELINES TO MAKE THE DECISION ON WHAT GENERAL ONTOLOGIES						
ARE	E GOING TO BE REUSED						
	Are there precise enough?						
	Are there understandable enough?					<u> </u>	
15.	Are there complete enough?					<u> </u>	
16.							
	PROVIDED GUIDELINES TO CUSTOMIZE AND INTEGRATE THE SELECTED ONTOLOGY						
17.							
	Are there understandable enough?						
19.	Are there complete enough?						
20.	Are all their explanations necessary?						

COMMENTS AND SUGGESTIONS:

We are especially interested in the comments and suggestions for those features to which you have assigned lower values (1, 2 or 3).