### **Instructions**

The goal of this test session is to investigate the features and functionalities of <u>LODE</u>, the <u>Live</u> <u>OWL Documentation Environment</u>, in terms of its usability.

LODE is a service that automatically extracts relevant aspects of an OWL or OWL2 ontology (such as classes, object properties, data properties, named individuals, annotation properties, general axioms and namespace declarations), and renders them and their textual definitions in a human-readable HTML page designed to aid browsing and navigating the ontology by means of embedded links.

#### Our interest is to assess:

- how LODE help users in producing human-readable documentation of OWL ontologies;
- how the documentation made by LODE can be used to browse and make sense of OWL ontologies.

#### The test session is structured as follows:

- we first ask you to fill a questionnaire (found in the next page) about your background knowledge and skills in OWL, ontology engineering and ontology documentation [2 mins.];
- then, as a warm-up task, we ask you to use LODE with the FOAF ontology in order to become confident with the documentation produced by it and its navigation mechanisms (primarily, hypertext links) [5 mins.];
- then, as the real test, we ask you to address five different tasks using the documentation of the FaBiO ontology created through LODE [ideally 2 mins., max 5 mins. per task];
- finally, we ask you to fill out two questionnaires about your experience in using LODE to complete these tasks [5 mins.].

# Pre-task questionnaire: backgrounds [2 mins.]

Na	me or nickname:					
Oc	cupation (professor/phd/etc.):					
Co	untry of affiliation:					
	·	strongl disagre	•		s	trongly agree
1	I have extensive experience in knowledge representation	1	2	3	4	5
2	I have extensive experience with the RDFS schema language	1	2	3	4	5
3	I have extensive experience with the OWL ontology language		_			
4	I have extensive experience in ontology engineering	1	2	3	4	5
		1	2	3	4	5
5	I have extensive experience in ontology documentation	1	2	3	4	5
6	I understand the amount of effort needed to make a good ontology documentation	1	2	3	4	5
7	I have detailed knowledge of the FOAF ontology					
8	I have detailed knowledge of the FaBiO ontology	1	2	3	4	5
	e ex	1	2	3	4	5
9	I have developed/used ontologies specified in OWL/RDFS					
		1	2	3	4	5
10	I have developed/used ontologies specified in languages other than OWL/RDFS	1	2	3	4	5
11	I am an expert user of LODE					
		1	2	3	4	5
12	I am an expert user of some other ontology documentation tool (e.g., Parrot or OWLDoc)	1	2	3	4	5

# Tasks [max 25 mins.]

### Warm-up task (5 mins.)

Click on the following link to explore the documentation of the FOAF ontology made by LODE:

http://www.essepuntato.it/lode/owlapi/http://xmlns.com/foaf/spec/index.rdf

Please, make sure to spend 5 minutes (not less, not more) in exploring LODE features.

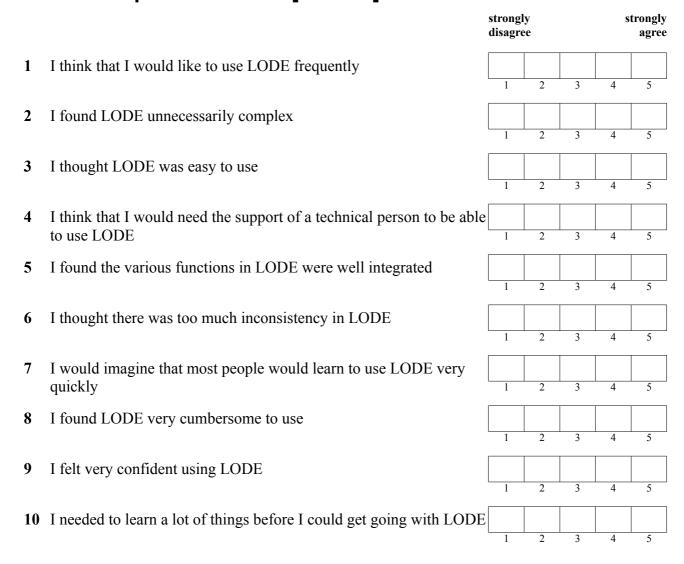
#### Test tasks (ideally 2 mins, max 5 mins per task)

Click on the following link to open a window visualising the documentation of the FaBiO ontology

	by LODE:					
	http://www.essepuntato.it/lode/http://purl.org/spar/fabio					
ease write down the answers to the following five tasks (remember: ideally 2 mins, max 5 min or task):						
1.	Describe what is the main aim of the ontology. [2/3 lines]					
2.	Describe what the class <i>doctoral thesis</i> defines. [2/3 lines]					
3.	Describe what is the aim of the object property <i>has subject term</i> and write down a brief description of its domain and range classes. [2/3 lines]					
	accompliant of the domain while things of the configuration [270 miles]					
4.	Write down the class having the maximum amount of direct individuals (i.e., individuals					
,	that belongs explicitly to the intended class and that are not inferable from its subclasses).					

5. Write down all the subclasses and the properties involving the class *item*.

# Post-task questionnaire 1 [2 mins.]



# Post-task questionnaire 2 [3 mins.]

1	How effectively did LODE support you in your tasks?
1.	How effectively did Lobe support you in your tasks:
2.	What were the most useful features of LODE to help you realise your tasks?
3.	What were the main weaknesses that LODE exhibited in supporting your tasks?
4.	Can you think of any additional features that would have helped you to accomplish your tasks?