Shape Expressions Visualization

This questionnaire contains 20 questions.
* Obligatoria
Preliminary questionnaire
Gathering demographic data and background knowledge
1. Year of Birth: *
2. Country of origin: *
3. Have you studied the Degree in Software Engineering? *
Yes
○ No

Average

Very high

High

4. How would you rate your knowledge of the following technologies? *

	Nonexisten t	Basic	Average	High	Very High
UML	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
RDF	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Shape Expressions	\bigcirc	\bigcirc	\circ	\bigcirc	\bigcirc
5. How do you assess	your spatial al	bility? *			
Spatial ability refers to dimensional space. E. orientation of an obje	g., being able to	imagine the o	consequences of		
Nonexistant					
Poor					

Test Case 1

Open the indicated tool and display the following Shape Expression. https://github.com/fidalgoLXXVI/shex-visualization-paper/blob/master/data/webindex.shex (This schema describes the data model of a Linked Data portal). Then answer each of the questions by carrying out the exposed steps.

6.	Is the shape :Organization closed? *
	Reminder: closed shapes are indicated by the qualifier CLOSED.
	() Yes
	○ No
7.	Which shape has the triple constraint "cex:value xsd:float"? *
8.	Ignoring references to other shapes, how many triple constraints does the shape
	:DataSet have? *
	Reminder: a triple constraint consists of a property (:age) and a nodal constraint
	(xsd:integer, IRI, [:Male :Female]). Optionally, they can include cardinality.
9.	What is the reference/s between the :Slice and :Observation shapes? *
0.	¿What shapes are connected by the reference cex:ref-area? *
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11. How many shape	es are referred to from :Ob	oservation? *	

Test Case 2

Open the indicated tool and display the following Shape Expression. https://github.com/fidalgoLXXVI/shex-visualization-paper/blob/master/data/genewiki.shex (This schema describes biomedical data relating to human genetics.)

Then answer each of the questions by carrying out the above steps.

12.	Is the :chromosome shape closed? *
	Yes
	O No
13.	Specify a shape that has the triple constraint ":geneOntologyId xsd:string". *
14.	Ignoring references to other shapes, how many triple constraints does the :molecular_function shape have? *
15.	What reference/s is/are there between the forms :chemical_compound and :therapeutic_use? *
16.	Which shapes are connected by the reference :codifiedBy? *

17.	. With how many shapes is :disease related? *
	Either referring to or being referred by them.

Final questionnaire

Assessments and impressions

18. Which tool have you used? *

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19. Please indicate whether you agree with the following statements: *

	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
The experience with the tool was satisfactory					
The tool was easy to use	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Visual notation was easy to learn	\circ	\circ	\bigcirc	\circ	\bigcirc
The meaning of the symbols can be inferred from their appearance.					
The tool can be useful for understandin g Shape Expressions.	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree

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Tool design is error-prone	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	
The tool facilitates the understandin g of complex areas						
The tool is most useful in large use cases.						
The tool is useful for examining references between shapes.						
The tool is useful for examining shape constraints.						
20. Do you have any ac	lditional com	iments on the	e tool (option	al)?		

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