17.02.2022

Final Exam, Winter 2021/22
Foundations of Linked Data
(Duration: 60 minutes)

Last Name: _____   First Name: _____

Matr.-No.: _____   Table No.: _____

I confirm that I have read the following notes and that I have checked the completeness of this exam (pages 1-5).

_____
Signature of the above-named exam attendee

Notes:

1. Please fill in your <u>last name</u>, <u>first name</u>, <u>matriculation number</u> and <u>table number</u> legibly.

2. No additional materials are allowed.

3. Attempts of deception lead to a disqualification from the exam.

4. Unreadable answers or answers written with a pencil can be disqualified from the evaluation.

5. You have 60 minutes to complete the exam.

6. You may answer in English as well as in German.

Only for the examiner:

1	2	3	-	-	-	-	-	-	total
(10)	(6)	(8)							(24)

Question 1.   (10 Points)

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Quiz. Decide whether the following statements are true or false. Each correct answer leads to 1 point.

	True	**False**
This is statement 1	☐	☐
This is statement 2	☐	☐
This is statement 3	☐	☐

Question 2. (6 Points)

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Task Question ...

(a) In the following code blocks are visualized.

```
@prefix : <http://www.wiso-coffee.org/blog#> .
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```
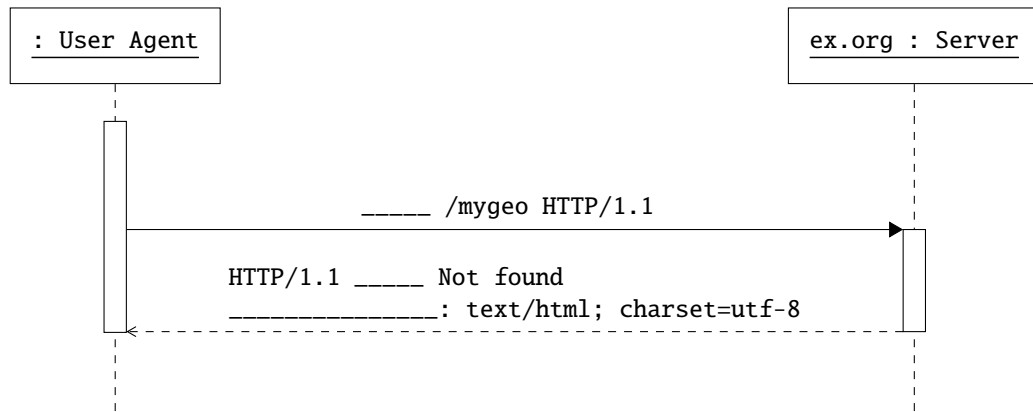
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Question 3.   (8 Points)

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(a) Complete the following sequence diagram.

```
┌─────────────────┐                              ┌──────────────────┐
│  : User Agent   │                              │ ex.org : Server  │
└─────────────────┘                              └──────────────────┘
        │                                                 │
       ┌┴┐                                                │
       │ │        _____ /mygeo HTTP/1.1                  ┌┴┐
       │ │───────────────────────────────────────────────▶│ │
       │ │    HTTP/1.1 _____ Not found                    │ │
       │ │    _____: text/html; charset=utf-8   │ │
       │◀┘- - - - - - - - - - - - - - - - - - - - - - - - └┬┘
        │                                                 │
        │                                                 │
```

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(b) Map the HTTP methods (DELETE, GET, POST, PUT) with their comparable CRUD
Operation in the table below by completing the entries in the table. Note that there can
be more than one value within a cell.

CRUD Operations	HTTP Methods
Create	
	GET
Update	
Delete	

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