

Exercise 3: Web Ontologies and Knowledge Graphs

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The entire source code is available on this Github Repo.

Task 1

I did the tutorial and followed to books instructions.

The turtle file can be found on Github: PizzaTutorial. or in the zip folder on canvas.

Task 2.1

The extension of the glossary can be found here (at the bottom) or in the zip folder on canvas. The TBox has also been extended with the necessary terms to support our scenario. It can be found here or also on canvas. The TBox_solution file is the one that I imported to the GraphDB site.

Task 2.2

The insert queries have been extended with the missing queries to build up the ABox such that it completes the description of the motivating scenario. The insert queries can be found here and the resulting ABox here. The missing search queries have also been added, you can find them here. All also on canvas.

To achieve the same ABox as me simply execute one insert query after the other on the GraphDB site. I removed all the random UUIDS so that querying is easier and faster.

Task 2.3

Implemented the missing Methods for the FarmKG.java class. Simply start the docker container and the jacamo application as given.