Assignment 1 – Animal Scouter

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Web Semântica

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### Transformations

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## Requirements

Installation requirements to set the developed application up and running:

* Python (preferably 3.8.10 or higher)
* GraphDB
* s4api (pip install s4api)

## Creating the database

In GrapDB control panel, it is needed to create a database named “zoo” and import the provided “zoo.nt” N-Triples file.

Optionally, for the base url, [*http://zoo.org/*](http://zoo.org/)may be used.

## Running with PyCharm

To run the application with PyCharm, simply open the wsproject folder and press the run button. Then, a localhost link should appear in the console which needs to be opened with a web browser.

## Running with command line

For running the application using the command line, open a new command line in the “/wsproject/” directory and type the command “py manage.py runserver”. A localhost link should appear in the console which needs to be opened with a web browser.

References

Dataset

<https://www.kaggle.com/datasets/agajorte/zoo-animals-extended-dataset>

Slides

Representação do Conhecimento, Standards da Web Semântica, WS, DETI, UA

Representação do Conhecimento, A Linguagem SPARQL, WS, DETI, UA

Representação do Conhecimento, A *Triplestore* GraphDB, WS, DETI, UA

Web references

<https://docs.djangoproject.com/en/4.1/ref/forms/widgets/>

<https://docs.djangoproject.com/en/4.1/ref/forms/fields/>