Posudek diplomové práce

Matematicko-fyzikální fakulta Univerzity Karlovy

Autor práce	Mahran Emeiri		
Název práce	A tool for configuring knowledge graph visual browser		
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Pracoviště	KSI MFF UK		

Text posudku:

The goal of this thesis was to design and develop the application, that will help to create configuration files for browsing Linked Open Data sources.

Even the main goal is to support creation of configuration for the Knowledge Graph Visual Browser, section 1.2mentioned other visualization tools with different configurations. It gave me an idea, that the work will compare them, extract common features as well as specific ones for the Knowledge Graph Visual Browser and at least discuss the possibility to design the tool as much generic as possible to - at least potentially - support other visualization tools. Even if I understand, that complete implementation of such idea exceeds the complexity of the diploma thesis.

Second chapter provides the analysis of configuration files for the tool and description of functional requirements. As configuration files are stored using RDF format, and the tool allows creation of configurations for querying Linked Open Data sources and make available previews of query results, it would be fine to allow seeing configurations as LOD data and visualize the connections within configuration parts and across them. It maybe could add another level of insight into the tool configuration.

While those chapters sufficiently describes initial phases of the application development using UML diagrams to visualize it to the reader, the third chapter describes the UI design. It also serves as the only information about usage of the final application. For me, as the user without previous experience with the Knowledge Graph Visual Browser, the description is not sufficient. I would expect some detailed user manual which will provide step-by-step tutorial about creating the configuration from scratch, as well as howto's that describe how to do the individual activities described in Chapter 2.

From my tests of interaction with the tool I can say that it really helps with the problem of creating configurations and allows keep the configuration consistent. It also provides hints what to write where. But still I have some questions, as I was not able to do some things. For example:

- What was the problem with saving new configuration back remotely? The requirment part contains both loading and saving them?

- Is it possible to create new Meta config groups so they can be assigned to configurations?

From the software engineering point of view, the application seems designed well. The applicatin is provided in form of docker container, so the configuration and deplozment is easy.

As the application should make creation of configuration easy, it would be fine, if it contains some comparison of the effort needed for its creation with and without it in terms of time needed to create it, finding and removing errors within it and so on.

My overal impression is that the diploma thesis met its requirements and I therefore recommend it for defense.

Práci doporučuji k obhajobě.

Práci nenavrhuji na zvláštní ocenění.

Pokud práci navrhujete na zvláštní ocenění (cena děkana apod.), prosím uveďte zde stručné zdůvodnění (vzniklé publikace, významnost tématu, inovativnost práce apod.).

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