

Posudek diplomové práce

Matematicko-fyzikální fakulta Univerzity Karlovy

Autor práce Altynbek Orumbayev

Název práce Decentralized Web-based Data Storage for LinkedPipes Applications using Solid

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Studijní program Informatika **Studijní obor** Softwarové a datové inženýrství

Autor posudku Jakub Klímek **Role** vedoucí

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Text posudku:

This thesis extends an existing software project for creation of visualization application on top of Linked Open Data with the capability of storing and sharing application configuration data using a cutting-edge, web-based decentralized storage technology called Solid. Solid allows users to store their data apart from the web applications they use, giving users control over where their data is stored and which applications may access it, which is novel in the web environment. Since the Solid specification and existing libraries are rudimentary and constantly evolving, the implementation in the existing tool presented some specific software engineering challenges.

The assignment was fulfilled sufficiently. The student worked independently and discussed the work regularly.

The textual part of the thesis is very detailed and extensive, which sometimes negatively affects readability. The text also contains some grammatical errors, typographical inconsistencies (e.g. table of contents, 5.2.2, 5.2.3) and some of the figures (e.g. Figure 3.1) are raster graphics instead of vector graphics, also affecting readability. Nevertheless, the text is well structured and contains all necessary parts from the software engineering point of view, including proper documentation of the developed solution, and a working online demo. Throughout the thesis, it is always clear what was done in scope of the SW project and what was done in scope of the thesis.

The implementation part is as user friendly as possible given the experimental state of the used technology. The relevance of the work is further evidenced by the interest of the community around Solid, including Sir Tim Berners-Lee, the inventor of the Web.

Práci doporučuji k obhajobě.

Práci nenavrhuji na zvláštní ocenění.

V Praze dne 13. 01. 2020

Podpis: