**FACULTY
OF INFORMATION
TECHNOLOGY
CTU IN PRAGUE**

ASSIGNMENT OF MASTER'S THESIS

Title:	Framework for mobile applications using Linked Data and the RÚIAN registry
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Supervisor:	RNDr. Jakub Klímek, Ph.D.
Study Programme:	Informatics
Study Branch:	Web and Software Engineering
Department:	Department of Software Engineering
Validity:	Until the end of summer semester 2018/19

Instructions

The goals of this thesis are:
 - Survey existing libraries for RDF and Linked Data [1] [3] manipulation on mobile devices.
 - Survey techniques for spatial querying using SPARQL [5].
 - Survey basic usability standards for Android OS and API for geolocation.
 - Design and Implement a framework for displaying data linked to RÚIAN [6] registry based on current location.
 - Demonstrate usefulness of the framework on a chosen domain.

References

[1] Tom Heath, Christian Bizer. Linked Data: Evolving the Web into a Global Data Space - http://linkeddatabook.com/editions/1.0/
[2] Beyond Search using Virtuoso Faceted Browser & Linked Data Cloud Cache - http://www.youtube.com/watch?v=8BTdzBX54Os
[3] Linked Data - Connect Distributed Data across the Web - http://linkeddata.org/
[4] Openlink Virtuoso Universal Server - http://virtuoso.openlinksw.com/
[5] SPARQL 1.1 - http://www.w3.org/TR/sparql11-overview/
[6] RÚIAN - http://www.cuzk.cz/ruian/RUIAN.aspx

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