

Title: Framework for geolocation-based Android applications using Linked Data

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The aim of this thesis is to design and implement a framework for geolocation based mobile applications using Linked Data. Introduced are Linked Data technologies in the context of mobile application development, data modeling, and geographical queries. This work follows the software development lifecycle from requirement gathering, software analysis, design of the application framework and its individual components, up to the implementation of required functionality and subsequent deployment and evaluation of the functional application framework. The resulting implementation of the framework consists of a mobile application that displays nearby places from Linked Data datasets on a map and a cloud service with a repository of required definitions. It serves to demonstrate functionality of the theoretical part of the work in real-life scenarios.