

Aufgabenstellung

Contextual Analysis For Web Application

In the paper of Content Trust Evaluation For Web Applications, authors proposed a Trust Framework to give web applications a mechanism to use substance trust-based, computerized, and decentralized trust assessment as seen in Substance trust. Without any human interaction, this system should function. Content trust is a trust evaluation on a particular piece of information or some specific content provided by an entity in a given context. This thesis investigates the idea to implement the second factor of content trust Context and Criticality to Recognize Criticality Level. This factor will not be implemented as a separate measurement, but it will help to change the co-operation threshold based on the criticality parameter and the corresponding values for each level of Criticality.

Content trust is often subjective, and there are many factors that determine whether content could or should be trusted, and in what context. The objective of this thesis is to achieve the criticality parameter provided during the trust evaluation call and the corresponding values for each level of Criticality in the trust evaluation framework. To do this, use of the interaction partner data, the reason for the interaction partner data searched, the purpose of the interaction partner data and source of the data will be identified as the parameters of context of the resource. Additionally, the role of associated entities for the interaction partner data will be also identified. Challenges will arrive after we will get all the values, to find a way how we can use these values for further procedures. Possibilities to do this, add the topics along with the recognized criticality level so that we will get a more accurate context of the trust which will be handy to change the cooperation threshold values.

The objective of this master thesis is to find an approach or a combination of approaches to find the best solution for implementing the second factor of content trust Context and Criticality. This particularly includes the state of the art regarding contextual analysis for web applications. The demonstration of feasibility with an implementation prototype of the concept is part of this thesis as well as a suitable evaluation with exemplary and empirical use cases.