Master/Diploma Thesis

Lehrstuhl für Informatik V offers a Master/Diploma thesis in the scope of mobile web services discovery project. We have developed a mobile web service provider for smart phones (Mobile Host) and have checked its feasibility in P2P networks. In the current project we are studying the means of discovering and addressing the web services provided by the Mobile Hosts.

Topic: **Scalability of P2P Based Mobile Web Services Discovery**

Mainly Web Services are built for static networks. Mobile networks are dynamic due to node movement across operator networks. When service discovery and registry are considered for mobile web service provider, centralized UDDI registry has many limitations and can not adapt efficiently to the large number of services that will be provided by the Mobile Hosts.

We already have studied an alternative for this discovery of services using the JXTA/JXME network, where we have published the WSDL documents to the P2P network. The topics of the current thesis include checking the scalability of our current approach. The P2P approach is to be compared with UDDI, and some of the best features of UDDI like categories are be adapted to our approach. A fresh thinking into the total approach is also welcome.

We are searching for the student with the following profile:

- Well versed with Web Services and enthusiastic about the developments in and around the domain;
- Good Java programming skills (JSP, J2EE etc.);
- Ability to grasp new APIs seamlessly;
- Working knowledge with JXTA / J2ME is a plus;
- English language skills.

For further information, please contact:

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