A generic description framework for LBS by WSMO

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Description:

LBS (location-based services) is a recent novel concept that integrates geographically dispersed devices’ location with other information in order to provide added value (like flexibility and context-awareness) to users. WSMO (Web Service Modeling Ontology) aims to create ontology for describing various aspects related to semantic Web services, and takes into account specific domains such as e-commerce and e-service in order to ensure the applicability of the ontology for these areas. The student is required to conceive how LBS can be involved in a dynamic business process with the formal modeling approach. In general, WSMO presents a more conceptually focused approach than OWL-S, making its specific underlying principles more explicit. Therefore, to express e-services’ geographic characteristics by using WSMO will significantly benefit the decentralised e-service in a real setting.

Expected Outcome:

With the completion of this project, the student should be able to provide a formal description approach for LBS, and critically analyse the advantages of depicting LBS by WSMO, when compared to others’ research work. If possible, conference or journal publication would be considered after completing this project.