

CS 6795 Semantic Web Techniques

Project Proposal

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Project Title:

Building an efficient user preference based travel plan for e-tourism

Project Proposal:

From a tourist's point of view, there are vast amount of information about special events, festivals and sightseeing of various countries that are scattered all over the web. This huge information must be collected, categorized and searched in order to arrange a good travel plan. In addition, individuals have different preferences. And some people prefer to set up a cost efficient plan while others are concerned about the time or sightseeing. For example, even for the same location, some people are attracted to historical places, some prefer natural parks and others do both.

According to these facts, arranging an appropriate travel plan for a specific period of time based on user preference can be a significant contribution in the context of e-tourism.

Employing semantic web techniques, we plan to design an ontology for tourism facilities as well as a rule base for reasoning on this ontology. Using this ontology and rule base, we anticipate that the user will be able to search and arrange an efficient travel plan for him (her).

We will initially gather tourism related information about two counties, Iran and Bhutan, in two groups. Then we will merge this information in an ontology which is accompanied by a global rule base.

Project Tools:

Protégé: <http://protege.stanford.edu>

For editing our ontology, we will make use of protégé. Protégé is a free, open source and java based ontology editor.

OO jDREW: <http://www.jdrew.org/ojdrew>

“OO jDREW is a deductive reasoning engine for the RuleML web rule language (including its OO extensions), written in the the Java programming language”.