

BLM5151: Semantic Web

Term Project

Fall 2016

We've learned how to create an ontology, how to manage ontology data in Java. In this project, you will design and implement your own intelligent application that can deal with semantics.

1. Details & Requirements

- Your application has to be useful
- Your application has to use semantics and some reasoning functionalities
- Your application has to use ontology and Jena Framework.
- Your application has to use and RDF storage and RDF visualization
- You can also use any kind of APIs if you need to use for your application, but you have to specify in the term report.
- You can use your own-ontology that you created (restriction: # of classes > 10, # of properties > 10)
- You can use any other ontologies that are available on the web (restriction: # of classes > 10, # of properties > 10)
- Only Java language is allowed

2. First thing to do : Submit a proposal paper

- Write a 1 page proposal for your own application. The proposal should include;
 - A motivating scenario (what does the application do and why is it interesting?)
 - A high level system architecture and information model
 - Development plan with reasonable milestones
- **Due Date: 14/11 (in class)**

3. Second thing to do : Implement your system and Write a 2~3 page report about your application

- Your report should include
 - General information about your application
 - A. Motivation, Goal, Implementation Environment (APIs,...), and so on
 - Use case scenario of your application
 - System architecture and information model

- Technical challenges and how you solved them
 - Brief explanation of your implementation
 - Experience and Discussion
 - Screenshots of your application and instruction (how to use your application)
 - How to compile and run
- How to submit
 - A. Please submit the files in .zip format with the filename corresponding to your student id.(e.g TP_StudentID.zip) via email to the teacher (aktas@yildiz.edu.tr) Email Title : [TermProject] Your Student ID, Your Name
 - Zip file should include your all source codes & report
 - **Due Date: Sunday, 18/12, 11:59PM**

4. Late Assignment Policy

- A. Term Projects are due at 11:59pm on the date specified. A grading penalty will be applied to late assignments. (10% penalty up to the first 24 hours, 20% for 24 to 48 hours, with no credit received after that)