

CS 5100, Fall 2011
Assignment 4—Ontology Design in Protégé

Assigned: October 20, 2011

Due: November 10, 2011 11:59pm via Blackboard

This assignment can be done in pairs (or individually if you prefer)

Objective: Gain experience with knowledge engineering and write a research report

Project Description: Use the Protégé ontology editor (Protégé-Frames) to create a (partial) domain ontology for one of:

1. A town library
2. An art museum
3. A movie rental store
4. A campus bookstore (like the NU bookstore)

NOTE: Use Protégé 3.4.7, NOT the newer releases.

You should have several classes (5-10) organized into a class hierarchy, with appropriate slots and facets. Use the wine and newspaper ontologies from the readings as a guide. Create 2 or 3 queries and put them in the query library. Consider the potential use of the ontology to organize a web site for the organization involved. (But do not try to model everything the web site would need, that would be too much).

Turn in your ontology project along with a written report. The written report should explain the major elements of your ontology and describe any problems you had or interesting issues you confronted in designing an ontology. The written report should have a title page that identifies the author(s), the course, the date, and the topic of your ontology.

Submission: Submit one copy of your work using Blackboard. You will be submitting 4 files—3 are the Protégé project, and 1 is your written report. It is preferred but not required to zip the files to make uploading and downloading easier.

Naming your files: Both your ontology files and your report should have names that begin with all or part of one author's last name. **NOTE:** You cannot title your Protege project by a different name and rename the files later—it will not work.

Resources:

Protégé Download URL: <http://protege.stanford.edu/download/download.html>

REMEMBER TO DOWNLOAD v3.4.7 AND USE PROTÉGÉ FRAMES

Protégé tutorial URL: http://protege.stanford.edu/doc/tutorial/get_started/admain.html