**Csce 561 project specification**

**Background information:**

Java programing

RDF

SPARQL/ JENA API

Definition of DBpedia dumps

**Resources**

SPARQL/JENA : <http://jena.apache.org/tutorials/sparql.html>

Advanced knowledge : <http://opentox.org/data/documents/development/RDF%20files/JavaOnly/query-reasoning-with-jena-and-sparql>

Dbpedia dumps: <http://dbpedia.org/Downloads39>

**Working environment**

DBpedia dumps.

JENA TBD

JENA SPARQL

**Problem specification**

Given a set of nouns (concepts, and named entities) it is required to define which is a concept and which is a named entity, and define the type of each named entity.

For each named entities extract all properties defined in the dbpedia

**Solution steps**

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| **Tasks** | **Duration** |
| 1. Download the required DBpedia files | 11/1 to 11/8 |
| 1. Download Jena |
| 1. Connect from Jena to DBpedia files with a test query |
| 1. Formulate a SPARQL query for each type of named entity that will be executed through Jena to check if the noun is a concept or a named entity | 11/9 to 11/16 |
| 1. Run the queries over the RDF files and write SPARQL query to extract properties of the extracted named entities. | 11/17 to 11/24 |
| 1. Write a report including computation analysis, and obstacles | 11/25 to 12/1 |