Java Programming 2545-01

Final Project Proposal

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Ideas from:

<http://mindprod.com/project/javaclassoverview.html>

and

<http://mindprod.com/project/xref.html>

**My Project Proposal**

Two major components:

1. A back-end, one-time utility program to extract information from the JavaDoc HTML files and load the database with the extracted info. A non-GUI program.
   1. Use the JSoup html extraction library to pull information from the downloaded html files.
   2. Due to the immense complexity of the documentation directories (10,400 html files, >900 folders), I will focus only on two Java packages: Java (14 sub-packages) and JavaX (21 sub-packages).
   3. Also due to complexity issues with creating JSoup selectors, I will focus only on Class method and package level summaries.
2. A GUI front end that the user works with the database to query for information on the JavaDocs. Allow the user to ask questions of the form:
   * What classes contain a method called toString?
   * What classes contain a method called size(double, double)?
   * What classes contain a method with the string prime somewhere in the method name?
   * What methods will accept a Random as a parameter?

The GUI would be a simple JForm Window with a table and selection/input field for submitting queries against the database. Bells and whistles would be added as time allows, such as: links to individual pages, buttons to show all items of a particular type, etc.

I anticipate this process will evolve and hopefully I’ll be able to expand the functionality and scope of the data collection as the development matures.