pvccheader

**CIS263AA Programming Project**

**Project Description:**

During this course, we covered several advanced topics in Java. For your midterm and final submissions, you will create a project that demonstrates your application of the topics we discussed.

**Midterm Submission (50) points:**

You will create a project proposal that demonstrates your competency in the Java programming language. Your proposal must include at minimum, the following components:

* Use of a text file (writing and reading) X
* A multithreaded component X
* An enumeration X
* An GUI component (Applet, Swing, or JavaFx) X
  + Use of forms. X
  + Use of dialog boxes. X
  + A printing component (java.awt.print.\*) X
* A 2D graphical component (graph, chart, create an image) X
* A database component (writing and reading) X

You should identify how you plan to integrate each of the above components into your project. Please keep in mind, this can be at a fairly high level right now but you should at least put some thought into it. Your submission will be a project proposal written in MS Word.

**Final Submission (300 points):**

Your final submission will be your Netbeans project. Grading for the program will be she same areas as your weekly programming assignments. I will also be looking at how well you integrated the minimum components into your project and your demonstration on the use of those concepts. A complete grading rubric will be forth coming.