SCSU CSCI UDWR

Literate Programming Rubric

Trait	Outstanding	Good	Marginal	Poor
Documentation &	Multiple full-	A moderately-	Relatively few tags	Few if any tags
embedded	featured output	featured output	inserted and	inserted, & those
comments	formats	format generated.	features exploited.	used applied
	generated.	Several graphical	Limited graphical	poorly and
	Comprehensive	UML diagrams	output.	inconsistently.
	generation of	generated.		No graphical
	graphical UML	A useful set of tags		output.
	diagrams.	applied		
	A comprehensive	consistently.		
	tag set applied			
	consistently.			

Guidelines:

The proficient use of <u>literate programming</u> (as mandated) should provide a student with considerable progress towards satisfaction of the <u>Source Code Documentation</u> requirement. In practice, this rubric should be applied in conjunction with the <u>Source Code Documentation Rubric</u>.

In all contexts, consistency of style is desired. The student should be free to express themselves with the documentation style of their choice, given that it is reasonable, so far as they apply it consistently.

Desirable features:

- Multiple output formats
 - o HTML
 - Man Pages
 - o PDF {with pdflatex and hyperlinks enabled}
- Automatic internal link generation
- External link generation
- UML diagrams
 - Class hierarchy
 - o Inheritance relations
 - o File dependency graph

- o Call graph
- o Caller graph
- Mathematical formula inclusion.
- Tag categories
 - Author list
 - o Examples of client use via demo code
 - Dates of development
 - o File location and concise description of contents
 - o Parameters {w. in/out specification} for a function
 - o Preconditions for a function
 - o Postconditions for a function
 - o Return value description for a function
 - References to external resources
 - o Test case description
 - o Thrown exceptions descriptions for a function
 - o Version
 - Warnings
 - o Known bugs
 - o To-do discussion

Doxygen, **Javadoc** or other contemporary literate programming tools can be used to satisfy this requirement.