

CSCE 156 – Assignment 5 Rubric

Name(s): _____

Total: _____/100

CSE Login: _____

Grader: _____

What needs to be turned in:

- Your design document (hardcopy) one week prior to this assignment being due
- This rubric (hardcopy)
- Your runnable JAR file named (`PortfolioReport.jar`) and zip file (`PortfolioReport.zip`) containing your source code using webhandin

Grading will be based on the following items.

1. Programming Style

Items	Grader Notes	Points	Score
<ul style="list-style-type: none">• Meaningful variable names• Proper Indentation• Consistency		2.5	
<ul style="list-style-type: none">• Comments provided in the code to specify the functionality or the objective of the particular block of code		2.5	
Subtotal		5	

2. Program Correctness

Items	Grader Notes	Points	Score
<ul style="list-style-type: none">• Correct file names• Correct class names• Source code is available in JAR• Other resources included in JAR as necessary		2.5	
<ul style="list-style-type: none">• Jar runs on cse as specified		2.5	
<ul style="list-style-type: none">• Database is setup and available with the required data as specified		2.5	
<ul style="list-style-type: none">• Output is readable and well-formatted		2.5	

<ul style="list-style-type: none"> Each test case properly executes as specified 		40	
Subtotal		50	

3. Program Design

Items	Grader Notes	Points	Score
Java classes properly map to the database <ul style="list-style-type: none"> Each class is properly loaded Each static method properly persists data to the database 		15	
<ul style="list-style-type: none"> Proper checks are made on inserts to ensure data integrity and avoid duplicates All classes properly handle data integrity during deletes Data is validated in some manner 		15	
<ul style="list-style-type: none"> Database connections and other related resources are managed appropriately Integrity and exceptions are handled in a proper manner 		15	

__ Bonus: A connection factory class has been implemented and used properly		(5)	
__ Bonus: Database errors are logged using log4j (or equivalent library) rather than silenced or to the standard output		(5)	
Subtotal		45	

Bonus/Honors Items

There are a couple of opportunities for bonus points. If you attempt any of the bonus point items and want them to be considered, check the items in the table above. Those enrolled in the **Honors section** of this course are *required* to complete all the bonus items; the total for this assignment will be adjusted appropriately. Bonus points will be awarded for the following items.

1. The boiler plate opening and closing of database connections can be encapsulated into a class that follows a *factory* pattern. Instead of having the same 20-30 lines of code every time we open a connection, we can simply call this a factory method instead. Designing and implementing such a factory class/method is worth 5 bonus points.
2. In an actual system, it is bad practice to output errors and other “system” information to the standard output. Instead, it is usual to use some sort of logging system where the output can be *configured* to output to system log files or silenced entirely. For Java, the most popular logging system is log4j. Using this or an equivalent system is worth 5 bonus points.