**Final Class Project for ITEC 4261**

1. The student will develop a test generator program that randomly selects 10 questions from a pool of 20 multiple choice questions that are in a text file. **Students must use arrays only for this homework. List are not allowed**. The program will prompt the user for answers to the question. The user will be able to revisit the questions until the user clicks submit for the test. After taking the test the user will see their score and questions they missed. The result will be provided as the number of correct answers and the score as a percentage.
2. Student will design the program using the (UML) Unified Modeling Language. Student will develop at least one class and document the class(es) in a UML diagram.
3. The student will provide all classes in separate .java files. The .java program will be fully documented with comments.

|  | **1 - Unsatisfactory** | **2 - Developing** | **3 - Satisfactory** | **4 - Exemplary** | **Score** |
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| **Performance Indicators** |  |  |  |  |  |
| **1.** Design an effective IT solution based on user requirements. | The student did not analyze the user requirements and did not develop an acceptable conceptual design using the Object-Oriented Programming model | The student inadequately analyzed the user requirements and developed a partially correct conceptual design using the Object-Oriented Programming model | The student analyzed the user requirements and developed good conceptual design using the Object-Oriented Programming model | The student fully analyzed the user requirements and developed a correct conceptual design using Object-Oriented Programming model |  |
| 2. Implement and administer an effective IT solution based on user requirements. | The program has not been implemented or does not meet any of the database design requirements | The program, as implemented, only partially meets the database design requirements | The program, as implemented, meets the most critical elements of the database design requirements | The program, as implemented, fully meets the Object Oriented design requirements |  |
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