Unit 2 Design Evaluation Rubric Section

This is the rubric that will be used for evaluating your Unit 2 design and design documentation

Dimension	Exceptional Performance (5)	Competent Performance (4)	Acceptable Performance (3)	Developing Performance (2)	Beginning Performance (1)
Functional Requirements (20%)	All functional requirements are clearly covered by the design.	The design appears to cover all functional requirements missing only some traceability.	The design covers most functional requirements with linkage between requirements and design.	The design misses many functional requirements or little tracing from requirements to design.	The design does not appear to have much connection to the functional requirements.
Design Patterns (20%)	The design uses at least three patterns and gives clear indications of their role in the system.	The design uses at least two patterns and provides justification for their use.	No more than one pattern incorporated or little justification for the use of several patterns.	No clear statement of pattern use, patterns used haphazardly without justification.	No patterns used, or patterns used mostly incorrectly and inappropriately.
Class Interactions (15%)	Design clearly adheres to OO principles of abstraction low coupling, high cohesion, and modular design.	The design adheres to most OO design principles and provides good evidence of how it does.	The design has good adherence to OO principles and provides some evidence of how this is done.	The design appears to adhere to OO principles but provides little evidence or rationale for how it does.	The design does not adhere to any OO design principles.
Non-functional Requirements (5%)	Design clearly shows support for the "ilities", such as maintainability and reuseability	The design adequately covers the non-functional requirements with few aspects missed.	The design has considered the nonfunctional requirements and gives a brief analysis.	Design appears to have considered non-functional requirements but provides little rationale.	The design shows little consideration for nonfunctional needs.
UML Diagrams (20%)	Class diagrams with significant classes & relationships and correct cardinality. Clearly described interaction diagrams for major features traced through all participants.	Class diagrams show all significant classes and relationships with appropriate cardinality. Interactions diagrams with most major features described.	Class diagrams have incorrect relationships, are missing some important relationships, or missing cardinality. Interaction diagrams show participants and most exchanges.	Class diagrams have many missing relationships, missing some important classes. Interactions diagrams provide little insight into the feature operation.	No UML diagrams or diagrams that only sketch the design.

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Design Document [Organization] (10%)	Document organized as coherent sections and subsections in a logical sequence and hierarchy with clear transitions and diagrams that follow structure.	Document organized as coherent sections and subsections that follow logically in sequence and hierarchy. Diagrams mostly follow structure.	Minor violations of section coherence or logical section sequencing. Some sectioning of class diagrams.	Significant violations of section coherence and/or logical section sequencing. No attempt to breakup class diagram.	Document is completely incoherent, no evidence of any attempt at ordering.
Design Document [Style] (5%)	Crisp writing in the active voice, clear transitions between topics, no excess verbiage	Few passive constructs, coherent sentence and paragraph structure, no run-on sentences	Several instances of poor sentence structure, run-on sentences, passive constructs, incoherent paragraphs.	Poor sentence structure, incoherent paragraphs and excessive passive voice, run on sentences.	Writing is practically incomprehensible
Design Document [Mechanics] (5%)	No spelling or grammar errors, excellent formatting, highly readable	Spelling and grammar errors rare, reasonable formatting	Spelling, grammar, and formatting errors appear on many pages and interfere somewhat with readability	Few pages without mechanics errors making reading a chore. Readability a significant problem.	Mechanics errors make it a struggle to decipher meaning.