



IT 510 Milestone Four Guidelines and Rubric

You will submit your **system design** via a Word document. The system design will include visual presentations of each of the following: modeling for specifications, data design, and user interface design. Each of the diagrams will visually represent your design. The system design additionally will include each explanation and supporting detail of the system design execution, in a complete and comprehensive write up. These are sections systems architecture and feasibility analysis. Your audience is IT management and the IT project team.

References for Review

For a template reference, review your textbook, *Systems Analysis and Design*, Chapter 2.

- Step 6: Present results and recommendations to management. Next, review Toolkit Part A: Communication Tools. You may also research on the internet for a systems analysis template for a reference.
- Use the example templates to develop your deliverable. Ensure you cover the specifics outlined in the Final Project Document.

Specifically the following critical elements must be addressed:

- III. **Systems Design:** Propose a solution that addresses the identified problem in your case. Be sure to include screenshots of all relevant diagrams, charts, and tables.
 - a) **Specifications:** Provide a physical design that will meet the specifications outlined in the systems requirement document.
 - b) **Data Design:** Create entity relationship diagrams (ERDs) that accurately describe the proposed solution, including 3NF table designs.
 - c) **User Interface Design:** Illustrate the user interface design. Specifically, be sure to address your proposed human computer interactions (HCIs) and graphical user interfaces (GUIs). Your proposals should follow user-centered design principles and address all design requirements.
 - d) **System Architecture:** Describe the system architecture. Specifically, be sure to address the corporate organization and culture, enterprise resource planning, total cost of ownership, scalability, integration and interface requirements, and security.
 - e) **Feasibility Analysis:** Provide supporting details that justify why your proposed solution is appropriate for solving the problem. In your defense, be sure to address operational, technical, economic, and scheduling feasibility. Be sure that you frame your response for communicating effectively to your target audiences.

Rubric

Guidelines for Submission: Milestone Four should follow these formatting guidelines: 4–6 pages, double-spacing, 12-point Times New Roman font, one-inch margins, and citations in APA.

Critical Elements	Exemplary (100%)	Proficient (90%)	Needs Improvement (75%)	Not Evident (0%)	Value
Specifications	Meets “Proficient” criteria and physical design reflects an in-depth analysis of the Systems Development Life Cycle	Provides a physical design that comprehensively meets the specifications outlined in the systems requirement document	Provides a physical design, but does not comprehensively meet the specifications outlined in the systems requirement document	Does not provide a physical design	20
Data Design	Meets “Proficient” criteria and diagrams reflect in-depth evaluation of structure and object oriented analysis modeling	Creates ERDs that accurately describe the proposed solution, including 3NF table designs	Creates ERDs, but there are gaps or inaccuracies in describing the solution or does not include 3NF table designs	Does not create ERDs	20
User Interface Design	Meets “Proficient” criteria and user interface design reflects an in-depth examination of structure and object oriented analysis modeling	Illustrates the user interface design (including HCIs and GUIs) that follow user-centered design principles and address all design requirements	Illustrates the user interface design, but does not include HCIs and GUIs, does not follow user-centered design principles, or does not address all design requirements	Does not illustrate the user interface design	15
System Architecture	Meets “Proficient” criteria and system architecture reflects an in-depth assessment of the Systems Development Life Cycle	Describes the system architecture by addressing the corporate organization and culture, enterprise resource planning, total cost of ownership, scalability, integration and interface requirements, and security in specific detail	Describes the system architecture, but does not address either the corporate organization and culture, enterprise resource planning, total cost of ownership, scalability, integration and interface requirements, or security in specific detail	Does not describe the system architecture	20
Feasibility Analysis	Meets “Proficient” criteria and evidence and examples reflect an in-depth evaluation of the paradigms, processes, and activities of IT systems	Justifies the proposed solution by addressing operational, technical, economic, and scheduling feasibility in a manner suitable for the target audiences	Justifies the proposed solution, but does not fully address operational, technical, economic, or scheduling feasibility in a manner suitable for their target audiences	Does not justify the proposed solution in terms of its feasibility	15

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Articulation of Response	Submission is free of errors related to citations, grammar, spelling, syntax, and organization and is presented in a professional and easy-to-read format	Submission has no major errors related to citations, grammar, spelling, syntax, or organization	Submission has major errors related to citations, grammar, spelling, syntax, or organization that negatively impact readability and articulation of main ideas	Submission has critical errors related to citations, grammar, spelling, syntax, or organization that prevent understanding of ideas	10
Earned Total					100%