**Computer Science 302**:

Assignment 1: System Design Report

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| **Category** | **Unacceptable (0-1)** | **Needs Improvement (2-3)** | **Good (4)** | **Excellent (5)** | **Total Possible Points** |
| Problem Definition/Scope (x2) | Does not produce a viable problem statement. Does not provide adequate explanation of goals or potential risks. Project does not seem worthy of accomplishing. | Produces a customer problem statement that is not clear. Explanation is adequate but leaves out key factors and potential risks that might increase/decrease the benefit updating or having a new system. | Your Assignment:  Produces a problem statement with an adequate explanation. The scope and complexity of the project is more narrowly defined | Produces a clear and unambiguous problem statement. Clearly defines project scope, objectives, limitations, benefits, weaknesses, and potential risks. | 8/10 |
| Design Requirements (x3) | Very few design objectives and functional and non-functional requirements defined. Constraints and limitations inadequately or not defined. | Some design objectives defined; some functional and non-functional requirements defined, some constraints and limitations defined. | Your Assignment:  Adequately defines the design objectives, functional and non-functional requirements; all constraints and limitations analyzed. | Clearly explains the overall design objectives; clearly defines functional and non-functional requirements; analyzes the constraints and limitations of the system in depth. | 12/15 |
| Development & Implementation (x2) | Identifies few, if any, costs associated with operations, implementation, tangible/intangible benefits, hardware, software, and facility | Identifies some of the costs associated with operations, implementation, tangible/intangible benefits, hardware, software, and facility | Identifies most costs associated with operations, implementation, tangible/intangible benefits, hardware, software, and facility | Your Assignment:  Identifies all costs associated with operations, implementation, tangible/intangible benefits, hardware, software, and facility | 10/10 |
| System Modification (x1) | Identifies few, if any maintenance activities used to improve the systems performance | Your Assignment:  Identifies some maintenance activities use to improve the systems performance | Identifies all maintenance activities use to improve the systems performance | Identifies all maintenance activities used to improve the systems performance; corrective, adaptive, perfective and preventive | 3/5 |
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Total Points: 33/40

Grader Notes:

* Problem Definition/Scope
  + Your goals are defined, but the scope could be further refined to indicate specific strategies you intend to pursue.
  + Consider giving a little more detail about the risks and mitigation strategies.
* Design Requirements
  + Constraints and limitations of the system need more thorough analysis.
  + Providing specific technical details or examples of similar systems would strengthen this section.
* Development & Implementation
  + Good job aligning the system with budget constraints, and including potential costs across several sections.
* System Modification
  + You, mostly centered around updates and API calls management. However, it's important to address all types of maintenance activities, including corrective, adaptive, perfective, and preventive, and how these will be managed long-term.