Rubric for Software Requirements Specification

Introduction

This rubric is designed to grade Software Requirements Specification (SRS) assignments, evaluating them based on seven key criteria:

- Completeness

- Correctness

- Feasibility

- Clarity

- Unambiguity

- Alignment with Vision and Scope

- Adherence to SRS Structure

Criteria Descriptions

The SRS should contain most of the basic elements of the COS SRS, including **2 or more diagrams**, augmented with **1-2 pages of vision & scope information** at the beginning. An **inspection report (issues list)** should also be appended.

Completeness assesses whether the SRS includes all necessary requirements. This criterion ensures that no critical information is omitted and that the SRS provides a thorough overview of the system's functionality and constraints.

Correctness evaluates the accuracy of the requirements outlined in the SRS. Each requirement should precisely describe the intended functionality of the system, without discrepancies between what is required and what is documented.

Feasibility examines whether the requirements are realistic and achievable within the given constraints, including time, resources, and technology. This criterion ensures that the requirements can be implemented with the available resources.

Clarity measures how clear and understandable the requirements are. This is crucial to ensure that all stakeholders, regardless of their technical background, can comprehend the SRS without confusion or misinterpretation.

Unambiguity focuses on ensuring that each requirement has only one clear interpretation. Ambiguous requirements can lead to differing interpretations, which may cause issues during the design and implementation phases.

Alignment with Vision and Scope evaluates how well the requirements align with the overall project vision and scope. This criterion ensures that the requirements are consistent with the project goals and do not lead to scope creep or misalignment with the intended objectives.

Adherence to SRS Structure assesses whether the SRS includes the basic elements of the COS SRS, contains 2 or more diagrams, includes 1-2 pages of vision and scope information at the beginning, and has an appended inspection report (issues list).

Rubric Table

Table 1: Rubric for Grading Software Requirements Specification (SRS) Assignments

Criteria	Excellent (90-100%)	Good (80-89%)	Satisfactory (70-79%)	Needs Improvement (60-69%)	Poor (Below 60%)
Completeness	All necessary requirements are included; no critical information is missing.	Most requirements are included, with minimal information missing.	Some requirements are missing, but core components are present.	Several key requirements are missing.	The document is incomplete, with many missing requirements.
Correctness	All requirements accurately describe the intended functionality.	Most requirements are correct, with minor inaccuracies.	Some requirements are inaccurate but generally understandable.	Several requirements are incorrect, leading to potential mis-understandings.	Requirements are largely incorrect or misrepresent the intended functionality.
Feasibility	All requirements are realistic and can be implemented with available resources.	Most requirements are feasible, with minor concerns about resource availability.	Some requirements may be difficult to implement but are generally possible.	Several requirements are not feasible given the constraints.	The majority of requirements are unrealistic and cannot be implemented.
Clarity	Requirements are clear, concise, and easily understood by all stakeholders.	Requirements are generally clear, with minor ambiguities.	Some requirements are unclear or require interpretation.	Several requirements are ambiguous or difficult to understand.	Requirements are confusing or poorly written, leading to significant misun-derstandings.
Unambiguity	Each requirement has one clear and reasonable interpretation.	Most requirements are unambiguous, with minor potential for misinterpretation.	Some requirements are ambiguous but can be clarified with effort.	Several requirements are open to multiple interpretations.	Requirements are ambiguous, leading to a significant risk of misinterpretation.
Alignment with Vision and Scope	Requirements fully align with the project's vision and scope.	Most requirements align, with minor deviations.	Some requirements align, but there are inconsistencies with the project vision and scope.	Several requirements do not align, leading to potential scope creep.	Requirements largely do not align with the project's vision and scope.
Adherence to SRS Structure	Includes all basic elements of the COS SRS, 2 or more diagrams, 1-2 pages of vision & scope at the beginning, and an appended inspection report.	Includes most elements, with minor omissions (e.g., only one diagram or shorter vision & scope section).	Includes some elements but missing key components (e.g., missing diagrams or inspection report).	Includes few elements of the COS SRS structure; significant components are missing.	Does not adhere to the required SRS structure; most components are missing.

Table 2: Points Allocation for Grading Software Requirements Specification (SRS) Assignments

Criteria	Total Points	Grading Levels
Completeness	15	Excellent (90-100%): 14-15 points Good (80-89%): 12-13 points Satisfactory (70-79%): 11 points Needs Improvement (60-69%): 9-10 points Poor (Below 60%): Less than 9 points
Correctness	15	Excellent (90-100%): 14-15 points Good (80-89%): 12-13 points Satisfactory (70-79%): 11 points Needs Improvement (60-69%): 9-10 points Poor (Below 60%): Less than 9 points
Feasibility	10	Excellent (90-100%): 9-10 points Good (80-89%): 8 points Satisfactory (70-79%): 7 points Needs Improvement (60-69%): 6 points Poor (Below 60%): Less than 6 points
Clarity	10	Excellent (90-100%): 9-10 points Good (80-89%): 8 points Satisfactory (70-79%): 7 points Needs Improvement (60-69%): 6 points Poor (Below 60%): Less than 6 points
Unambiguity	10	Excellent (90-100%): 9-10 points Good (80-89%): 8 points Satisfactory (70-79%): 7 points Needs Improvement (60-69%): 6 points Poor (Below 60%): Less than 6 points
Alignment with Vision and Scope	10	Excellent (90-100%): 9-10 points Good (80-89%): 8 points Satisfactory (70-79%): 7 points Needs Improvement (60-69%): 6 points Poor (Below 60%): Less than 6 points
Adherence to SRS Structure	30	Excellent (90-100%): 27-30 points Good (80-89%): 24-26 points Satisfactory (70-79%): 21-23 points Needs Improvement (60-69%): 18-20 points Poor (Below 60%): Less than 18 points
Total Score	100	**Excellent (90-100%)**: 90-100 points **Good (80-89%)**: 80-89 points **Satisfactory (70-79%)**: 70-79 points **Needs Improvement (60-69%)**: 60-69 points **Poor (Below 60%)**: Less than 60 points