WEB-BASED ARCHIVE OF STUDENTS' THESES AND CAPSTONES IN BULACAN STATE UNIVERSITY – SARMIENTO CAMPUS

Name:_____ **Date:**_____

EVALUATION CRITERIA FOR IT EXPERTS
ISO 25010

Instruction: Please evaluate the instrument by using the given scale and placing a checkmark (✓) under the corresponding rating.

Rating	Description
5	Excellent
4	Very Good
3	Good
2	Fair
1	Poor

INDICATORS	5	4	3	2	1
A. Functional Suitability					
1. Functional Completeness. The focus of specified tasks, and user objectives					
2. Functional Correctness. Correct results with precision					
3. Functional Appropriateness. Facilitation of tasks accomplishment					
B. Performance Efficiency					
1. Time Behavior. The throughput rate of the system					
2. Resource utilization. When fulfilling its functions, a product or system's volume and kind of resources satisfy criteria.					
3. Capacity. Capacity limit of a system					
C. Compatibility					
Co-existence. The degree to which a product can perform its required function					
Interoperability. The degree to which two or more systems, products, or components can exchange information and use the information that has been exchanged					
D. Usability					
Appropriateness recognizability. System or product appropriateness					
User-interface aesthetics. Satisfying design and interaction					
Learnability. Simplicity, effectiveness, efficiency, freedom of risk, and satisfaction					
Operability. Ease of operating, control, simplicity, efficiency					
User error protection. Constraints against errors					
Accessibility. The degree to which a product or system can be used by people with the widest range of characteristics and capabilities to achieve a specified goal in a specified context of use					
E. Reliability					
Maturity. Reliability under normal operation.					
Availability. The constant operation, and accessible when required.					
Fault Tolerance. Operate in the presence of faulty.					
Recoverability. Re-establish desired state in the event of failure(s)					
F. Security					
Confidentiality. Data accessibility and privacy concerns					
Integrity. Modification rights					
Non-repudiation. Proves of events and transaction security					
Accountability. The degree to which the actions of an entity can be traced uniquely to the entity					
Authenticity. Genuine products and service					
G. Maintainability					
Modularity. Discrete components and minimal impact on changes					
Reusability. The degree to which an asset can be used in more than one system or in building other assets					
Analyzability. Failure diagnosis and impact assessment					
Modifiability. Stability, changeability, and minimal impact on modification					
Testability. Test criteria establishment and test case for test criteria established					
H. Portability					
Adaptability - system can effectively and efficiently be adapted for different or evolving hardware, software or other operational or usage environments.					

WEB-BASED ARCHIVE OF STUDENTS' THESES AND CAPSTONES IN BULACAN STATE UNIVERSITY – SARMIENTO CAMPUS

Name:_____ **Date:**_____

Department: ☐ **GATE** ☐ **BAM** ☐ **IIT**

Course/Year/Section: _____

EVALUATION CRITERIA FOR USERS
ISO 25010

Instruction: Please evaluate the instrument by using the given scale and placing a checkmark (✓) under the corresponding rating.

Rating	Description
5	Excellent
4	Very Good
3	Good
2	Fair
1	Poor

INDICATORS	5	4	3	2	1
I. Functional Suitability					
Functional Completeness. Are the functions complete?					
Functional Correctness. Are the functions correct?					
Functional Appropriateness. Are the functions appropriate?					
J. Performance Efficiency					
Time Behavior. Does the system process fast?					
Resource utilization. When fulfilling its functions, a product or system's volume and kind of resources satisfy criteria.					
Capacity. Capacity limit of the system					
K. Compatibility					
Co-existence. Does the system perform its required function?					
Interoperability. Is the system able to exchange information from other system?					
L. Usability					
Appropriateness recognizability. Is the system appropriate?					
User-interface aesthetics. Satisfying design and interaction					
Learnability. Is the system easy to learn?					
Operability. Is the system easy to use?					
User error protection. Are there pop-up if you enter an invalid input?					
Accessibility. Is the system accessible by all?					
M. Reliability					
Maturity. Is the system Reliability under normal operation.					
Availability. Is it accessible by anyone?					
Fault Tolerance. Operate in the presence of faulty.					
Recoverability. Re-establish desired state in the event of failure(s)					
N. Security					
Confidentiality. Data accessibility and privacy concerns					
Integrity. Modification rights					
Non-repudiation. Proves of events and transaction security					
Accountability. The degree to which the actions of an entity can be traced uniquely to the entity					
Authenticity. Genuine products and service					
O. Maintainability					
Modularity. Discrete components and minimal impact on changes					
Reusability. The degree to which an asset can be used in more than one system or in building other assets					
Analyzability. Failure diagnosis and impact assessment					
Modifiability. Stability, changeability, and minimal impact on modification					
Testability. Test criteria establishment and test case for test criteria established					
P. Portability					
Adaptability - system can effectively and efficiently be adapted for different or evolving hardware, software or other operational or usage environments.					

ISO 25010 is one of the parts of ISO 25000 series which focuses on the quality of the model. We chose this as an evaluation tool to evaluate our system because it checks our system's quality. This Series has the most compatible criteria to our system.

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Name:_____ **Date:**_____

EVALUATION CRITERIA FOR IT EXPERTS
ISO 9126

Instruction: Please evaluate the instrument by using the given scale and placing a checkmark (✓) under the corresponding rating.

Rating	Description
5	Excellent
4	Very Good
3	Good
2	Fair
2	Poor

INDICATORS	5	4	3	2	1
A. Functionality					
Suitability. Functions are appropriate to specifications.					
Accurateness. Functions are correct					
Interoperability. Software can interact with other components or systems.					
Compliance. Adherence to standards.					
Security. Provision for security requirements.					
B. Reliability					
Maturity. Absence of failures.					
Fault tolerance. Ability to withstand and recover from component failure.					
Recoverability. Ability to bring back a failed system to full operation, including data and network connections.					
Correctness. Ability to produce correct computations, output or reports.					
C. Usability					
Understandability. Ease of which the systems functions can be understood					
Learnability. Learning effort for different users, i.e. novice, expert, casual etc.					
Operability. Ability of the software to be easily operated by a given user in a given environment.					
Provision for comfort and convenience. Does the interface look good?					
D. Efficiency					
Time Behavior How quickly does the system respond?					
Resource Utilization Does the system utilize resources efficiently?					
E. Maintainability					
Analyzability. Ability to identify the root cause of a failure within the software					
Changeability. Software adjusts well to different screen dimensions, color depths, and font sizes. Different interfaces can be chosen to suit beginners and more advanced users					
stability. Characterizes the sensitivity to change of a given system.					
Testability Can the software be tested easily?					
F. Portability					
Adaptability. Ability of the system to change to new specifications or operating environments.					
Software compatibility. Provision for portability of operating system used.					
G. All characteristics					
Compliance - Does the software comply with laws or regulations?					

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Name:_____ **Date:**_____

Department: ☐ **GATE** ☐ **BAM** ☐ **IIT**

Course/Year/Section: _____

EVALUATION CRITERIA FOR USERS
ISO 9126

Instruction: Please evaluate the instrument by using the given scale and placing a checkmark (✓) under the corresponding rating.

Rating	Description
5	Excellent
4	Very Good
3	Good
2	Fair
1	Poor

INDICATORS	5	4	3	2	1
A. Functionality					
Suitability. Can software perform the tasks required?					
Accurateness. Is the result as expected?					
Interoperability. Can the system interact with another system?					
Compliance. Adherence to standards.					
Security. Does the software prevent unauthorised access?					
B. Reliability					
Maturity. Absence of failures.					
Fault tolerance. Is the software capable of handling errors?					
Recoverability. Can the software resume working and restore lost data after failure?					
Correctness. Ability to produce correct computations, output or reports.					
C. Usability					
Understandability. Does the user comprehend how to use the system easily?					
Learnability. Can the user learn to use the system easily?					
Operability. Can the user use the system without much effort?					
Provision for comfort and convenience. Does the interface look good?					
D. Efficiency					
Time Behavior How quickly does the system respond?					
Resource Utilization Does the system utilize resources efficiently?					
E. Maintainability					
Analyzability Can faults be easily diagnosed?					
Changeability. Can the software be easily modified?					
Stability. Can the software continue functioning if changes are made?					
Testability Can the software be tested easily?					
F. Portability					
Adaptability. Can the software be moved to other environments?					
Software compatibility. Provision for portability of operating system used.					
G. All characteristics					
Compliance - Does the software comply with laws or regulations?					

WEB-BASED ARCHIVE OF STUDENTS' THESES AND CAPSTONES IN BULACAN STATE UNIVERSITY – SARMIENTO CAMPUS

Name:_____ **Date:**_____

EVALUATION CRITERIA FOR IT EXPERTS
ISO 25040

Instruction: Please evaluate the instrument by using the given scale and placing a checkmark (✓) under the corresponding rating.

Rating	Description
5	Excellent
4	Very Good
3	Good
2	Fair
1	Poor

INDICATORS	5	4	3	2	1
A. Activity 1: Establish the evaluation requirements					
Task 1.1: Establish the purpose of the evaluation – The goal of this task is to document the purpose for which the organization wants to evaluate the quality of the software product					
Task 1.2: Obtain the software product quality requirements – The goal of this task is to identify the stakeholders of the software product					
Task 1.3: Identify product parts to be included in the evaluation – All product parts to be included in the evaluation shall be identified and documented					
Task 1.4: Define the stringency of the evaluation – The evaluation stringency shall be defined in order to provide confidence in the software product quality according to its intended use and purpose of the evaluation.					
B. Activity 2: Specify the evaluation					
Task 2.1: Select quality measures (evaluation modules) – In this task the evaluator shall select quality measures (evaluation modules) to cover all software quality evaluation requirements.					
Task 2.2: Define decision criteria for quality measures – Decision criteria shall be defined for the selected individual measures.					
Task 2.3: Define decision criteria for evaluation – The evaluator should prepare a procedure for further summarization, with separate criteria for different quality characteristics, each of which may be in terms of sub characteristics and quality measures					
C. Activity 3: Design the evaluation					
Task 3.1: Plan evaluation activities – The identified software product quality evaluation activities shall be scheduled, taking into account the availability of resources such as personnel, software tools and computers.					
D. Activity 4: Execute the evaluation					
Task 4.1: Make measurements – The selected software product quality measures shall be applied to the software product and components, according to the evaluation plan, resulting in values on the measurement scales.					
Task 4.2: Apply decision criteria for quality measures – The decision criteria for the software product quality measures shall be applied to the measured values.					
Task 4.3: Apply decision criteria for evaluation – The set of decision criteria shall be summarized into sub characteristics and characteristics, producing the assess results as a statement of the extent to which the software product meets quality requirements.					
E. Activity 5: Conclude the evaluation					
Task 5.1: Review the evaluation result – The evaluator and the requester shall carry out a joint review of the evaluation results.					
Task 5.2: Create the evaluation report – Once the results are reviewed, the evaluation report is created, including the requirements of the evaluation, the results from the measurements and analyses performed, any limitations or constraints, the evaluators, and their qualifications, etc.					
Task 5.3: Review quality evaluation and provide feedback to the organization – The evaluator shall review the results of the evaluation and the validity of the evaluation process, indicators and measures applied.					
Task 5.4: Perform disposition of evaluation data – When the evaluation is completed the data and evaluation items shall be disposed according to requirements of the requester, returning, archiving or destroying them in a secure way, depending on the type of data.					

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Course/Year/Section: _____

EVALUATION CRITERIA FOR USERS
ISO 25040

Instruction: Please evaluate the instrument by using the given scale and placing a checkmark (✓) under the corresponding rating.

Rating	Description
5	Excellent
4	Very Good
3	Good
2	Fair
1	Poor

INDICATORS	5	4	3	2	1
A. Activity 1: Establish the evaluation requirements					
Task 1.1: Establish the purpose of the evaluation – Is the system's purpose well documented?					
Task 1.2: Obtain the software product quality requirements – Are the stakeholders of the system Identified?					
Task 1.3: Identify product parts to be included in the evaluation – Are all the products well identified and documented?					
Task 1.4: Define the stringency of the evaluation – Does the system has the confidence of its functionality?					
B. Activity 2: Specify the evaluation					
Task 2.1: Select quality measures (evaluation modules) – Does the evaluators measures the system well?					
Task 2.2: Define decision criteria for quality measures – Are the criteria well define?					
Task 2.3: Define decision criteria for evaluation – are the criteria well define for evaluation?					
C. Activity 3: Design the evaluation					
Task 3.1: Plan evaluation activities – are the activities in evaluation well planned?					
D. Activity 4: Execute the evaluation					
Task 4.1: Make measurements - are the measures applies on the product?					
Task 4.2: Apply decision criteria for quality measures – Is the well define criteria applied?					
Task 4.3: Apply decision criteria for evaluation – Is the well define criteria for evaluation applied?					
E. Activity 5: Conclude the evaluation					
Task 5.1: Review the evaluation result – Were the results reviewed?					
Task 5.2: Create the evaluation report – Do the proponents made a report?					
Task 5.3: Review quality evaluation and provide feedback to the organization – were the results valid?					
Task 5.4: Perform disposition of evaluation data – Do the proponents destroy the data after using it?					

According to the website of ISO (https://www.iso.org/standard/35765.html) ISO/IEC 14598-1:1999 was replaced by ISO/IEC 25040:2011