Extraction Sheet

- DOI
- Author
- Year of Publication
- Where the RCT was conducted
- Language
- Purpose of study
- Age of participants
- Type of data collection tool
- Online or offline data storage
- Custom or off the shelf
- Data protection/privacy
- Functionality
- Reliability
- Usability
- Efficiency
- Maintainability
- Portability
- Effectiveness
- Cost-benefit
- Satisfaction
- Freedom from risk
- Context coverage

Modified MST Framework		
Functionality	Suitability	Degree to which an MST meets stated and implied user needs when used under specified conditions
	Accuracy	Degree to which an MST provides accurate results with the needed degree of precision
	Interoperability (Only Digital)	Degree to which MSTs can exchange information with other systems and use information that has been exchanged
	Security	Degree to which an MST protects data from unauthorized access by other persons or systems
Reliability	Maturity	Degree to which an MST has overcome initial bugs and defects, and meets needs for reliability under normal operation
	Fault Tolerance (Digital)	Degree to which an MST operates as intended despite the presence of hardware or software faults
	Recoverability	Degree to which, in the event of an interruption or a failure, an MST can recover the data directly affected and re-establish the desired state of the system
Usability	Understandability	Degree to which the features and functions of an MST can be understood by users with a wide range of backgrounds and levels of expertise
	Learnability	Degree to which users with a wide range of backgrounds and levels of expertise can efficiently learn to use an MST to achieve specified goals
	Operability	Degree to which an MST is easy to operate and control

Modified MST Framework		
Efficiency	Attractiveness	Degree to which users perceive an MST's user interface to be attractive and satisfying to use
	Time Behaviour	Degree to which MST response times, processing times, and throughput rates meet or exceed user requirements
	Resource Utilisation	Degree to which the amounts and types of resources used by an MST, when performing its functions, meet requirements
Maintainability	Analyzability	Degree of effectiveness and efficiency with which it is possible to assess the impact on an MST of an intended change to one or more of its parts, or to diagnose an MST for deficiencies or causes of failures, or to identify parts to be modified
	Changeability	Degree to which an MST can be effectively and efficiently modified by users without introducing defects or degrading existing product quality
	Stability	Degree to which an MST performs free from failures, interruptions, and unexpected effects
	Testability	Degree of effectiveness and efficiency with which test criteria can be established for an MST and tests can be performed to determine whether those criteria have been met
Portability	Adaptability	Degree to which an MST can effectively and efficiently be adapted for different or evolving hardware, software or other operational or usage environments

Supplemental material

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Modified MST Framework		
	Ease of Installation	Degree of effectiveness and efficiency with which an MST can be successfully installed and/or uninstalled in a specified environment
	Co-Existance	The capability of an MST to exist and operate on systems on which other software simultaneously exists and operates
	Replacability	The capability of an MST to be used in place of another specified MST for the same purpose in the same environment
Effectiveness	User accomplishment	Accuracy and completeness with which users achieve specified goals
Efficiency	Cost-Benefit	Resources expended in relation to the accuracy and completeness with which users achieve goals
	Usefulness	Degree to which a user is satisfied with their perceived achievement of pragmatic goals, including the results of use and the consequences of use
	Trust	Degree to which a user or other stakeholder has confidence that an MST will behave as intended
Satisfaction	Pleasure	Degree to which a user obtains pleasure from fulfilling their personal needs when using an MST
	Comfort	Degree to which the user is satisfied with his or her physical comfort when using an MST
Freedom from Risk	Economic Risk Mitigation	Degree to which an MST mitigates potential risks to financial status, efficient operation, commercial property, reputation or other resources in the intended contexts of use

Modified MST Framework		
	Health and Safety Risk Mitigation	Degree to which an MST mitigates potential risks to people in the intended contexts of use
	Environmental Risk Mitigation	Degree to which an MST mitigates potential risks to property or the environment in the intended contexts of use
Context Coverage	Context Completeness	Degree to which an MST can be used with effectiveness, efficiency, freedom from risk and satisfaction in all the specified contexts of use
	Flexibility	Degree to which an MST can be used with effectiveness, efficiency, freedom from risk and satisfaction in contexts beyond those initially specified in the requirements
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