



# Quality Assessment Checklists for Requirements

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With the above framework in mind, we can move on to assessing the quality of each requirements set at its appropriate level of completeness. To assist your team in this endeavor, in this section we provide guidelines in the format of a quality assessment checklist for each team skill requirements artifacts set (Tables 29-2 through 29-7).

Many of the checklist items apply at any point of completion; others might apply only at some later and more final stage. In any case, those doing the assessment must keep in mind that the level of specificity and completeness must be appropriate for the particular iteration. There should be no "polishing of the artifact apple" in a contemporary and dynamic iterative software development process.

Table 29-2. Quality Assessment Checklist for Team Skill 1: Analyzing the Problem

Problem statement	Has a problem statement been drafted?	<input type="checkbox"/>
	Is it written in an easy-to-understand way?	<input type="checkbox"/>
	Does the team understand it?	<input type="checkbox"/>
	Has it been circulated for agreement to the key stakeholders, including management?	<input type="checkbox"/>
	Do the team members have agreement that this is the problem they are trying to solve (or the opportunity you are trying to address)?	<input type="checkbox"/>
Root cause analysis	Was a root cause analysis performed?	<input type="checkbox"/>
	Can the team members be sure they are addressing a real problem and not a symptom of a more basic problem?	<input type="checkbox"/>

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	Was sufficient effort invested in experimentation or other techniques to identify the root cause?	<input type="checkbox"/>
Systems model	Is the solutions system boundary identified?	<input type="checkbox"/>
	Have you identified all the things that interact with the system?	<input type="checkbox"/>
	Has the system been partitioned into subsystems? If so, was the system decomposition driven by the right optimization criteria?	<input type="checkbox"/>
	If so, have all the subsystems been identified?	<input type="checkbox"/>
	Are the boundaries of each subsystem understood ?	<input type="checkbox"/>
	Is there a plan for identifying and addressing derived requirements?	<input type="checkbox"/>
List of stakeholders and users	Have you identified all the users of the system?	<input type="checkbox"/>
	Have you identified all stakeholders who will be affected by the system?	<input type="checkbox"/>
	Have you looked outside the sets of readily perceivable users and stakeholders and found the people dealing with administration, installation, and support or training?	<input type="checkbox"/>
	How do the team members know they have identified them all?	<input type="checkbox"/>
List of design and development constraints	Has the team identified all the constraints to be imposed on the system itself?	<input type="checkbox"/>
	Has the team identified all the constraints to be imposed on the development process or project contracts?	<input type="checkbox"/>
	Have all constraints sources (such as budget, product cost, political or contractual requirements, system requirements, environmental factors, regulations, staffing, software processes and tooling) been considered ?	<input type="checkbox"/>
List of actors	Have you found all the actors? That is, have you accounted for and modeled all the things (users, devices, other systems and applications) that interact with the system?	<input type="checkbox"/>
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	Do any actors play similar roles in relation to the system? (If so, you should merge them into a single actor.)	<input type="checkbox"/>
	Will a particular actor use the system in several completely different ways, or does the actor have several completely different purposes for using the use case? (If the actor uses the system in different ways, you should probably have more than one actor.)	<input type="checkbox"/>
	Do the actors have intuitive and descriptive names? Can both users and customers understand the names ?	<input type="checkbox"/>
Business use-case model	Is a business use-case model required to understand the intended functions of the proposed system?	<input type="checkbox"/>
	Is a business object model required to understand the entities involved in the business processes?	<input type="checkbox"/>
	Does the team understand what specific functions will be allocated to the proposed system?	<input type="checkbox"/>

Table 29-3. Quality Assessment Checklist for Team Skill 2: Understanding User and Stakeholder Needs

Structured interview, process, and results	Was a structured interview employed?	<input type="checkbox"/>
	Did it cover all the major facets of product requirements, purpose, usage, reliability, performance, deployment, support, and so on?	<input type="checkbox"/>
	Was it sufficiently free of interviewer biases so as to assure a quality result?	<input type="checkbox"/>
	Were a sufficient number of users or stakeholders identified and interviewed?	<input type="checkbox"/>
	Are there other key influencers whose needs must be understood?	<input type="checkbox"/>
Understanding of users and user needs	Do you understand who the users are and what capabilities they possess to apply your application?	<input type="checkbox"/>
	Did you discover any primary user or demographic in the product?	<input type="checkbox"/>

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	Did the highest-priority needs converge after a reasonable number of interviews?	<input type="checkbox"/>
	Are the user data, needs data, and any suggested features summarized somewhere for future reference?	<input type="checkbox"/>
Requirements workshop process and results	Was a workshop conducted that included the requisite stakeholders?	<input type="checkbox"/>
	Was it conducted in such a way as to encourage input by all stakeholders?	<input type="checkbox"/>
	Did the results converge on a common understanding of the system to be built?	<input type="checkbox"/>
	Was the development team engaged in such a way as to provide reasonable assurances of technical and project timeline feasibility?	<input type="checkbox"/>
Preliminary list of prioritized features	Does a prioritized list of features exist?	<input type="checkbox"/>
	Did the development team define rough estimates of effort for each?	<input type="checkbox"/>
	Was the risk of each feature established?	<input type="checkbox"/>
	Is this information captured somewhere for continuous reference?	<input type="checkbox"/>
Storyboards, example use cases, and other expository artifacts	If the application is innovative, did you develop some means to demonstrate the application to the user?	<input type="checkbox"/>
	Was their reaction taken into consideration and is it now reflected in your current understanding of the system?	<input type="checkbox"/>
	Can you describe a few exemplary use cases that describe how the system is intended to be used?	<input type="checkbox"/>

Table 29-4. Quality Assessment Checklist for Team Skill 3: Defining the System

Requirements	Have you established a plan for organizing requirements?	<input type="checkbox"/>
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organization	Do you understand what tooling you will apply to manage this process?	<input type="checkbox"/>
	Does your organization system allow for capture of all types of requirements?	<input type="checkbox"/>
	Are you on the lookout for design constraints?	<input type="checkbox"/>
Vision document	Do you have a vision for the project?	<input type="checkbox"/>
	Does it include input from relevant sources (authors/inventors, stakeholders, subject matter experts, development team) about key aspects of the project (system requirements, constraints, other systems and applications, competitive products)?	<input type="checkbox"/>
	Is the vision captured in an established template (the Vision document) for this purpose?	<input type="checkbox"/>
	Does it contain the requisite elements: user's profile, types, environments, product overview/perspective, product position statement, product features, applicable system requirements, and so on?	<input type="checkbox"/>
	Have you established a Delta Vision document mechanism for future releases?	<input type="checkbox"/>
Identification of initial use cases	Have you identified (named and described) the basic use cases that will be used to drive system development?	<input type="checkbox"/>
Empowerment of product manager/project champion	Is there a product manager or project champion empowered by the team?	<input type="checkbox"/>
	Is he or she the official source of feature-level changes?	<input type="checkbox"/>
	Have you identified a product road map that defines external releases and the features currently planned for each release?	<input type="checkbox"/>
	Do you know how you will describe the product (messaging) to the outside world?	<input type="checkbox"/>
Definitions of commercial factors	Have you defined and captured (whole product plan) This website uses cookies. Click <a href="#">here</a> to find out more. <a href="#">Accept cookies</a>	<input type="checkbox"/>
	ation; pricing; ing; and	

	product naming, branding, and labeling?	
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Table 29-5. Quality Assessment Checklist for Team Skill 4: Managing Scope

Prioritization and estimation of features	Have you estimated, prioritized, and assessed the risk for the various features that constitute the product vision?	<input type="checkbox"/>
Requirements baseline	Have you established a requirements baseline for the release you are working on?	<input type="checkbox"/>
	Do you understand what features are critical to this releases, as well as those that are important and useful?	<input type="checkbox"/>
Recognition and communication of achievable scope	Does your project fit "in the scope box?" (Can it be executed with the available resources and within the available time line?)	<input type="checkbox"/>
	Have you made the hard decisions for what can and can't be done during the known time line?	<input type="checkbox"/>
	Have key managers and customer stakeholders agreed to this scope?	<input type="checkbox"/>
Agreed-on expectations	Are expectations for the current release understood by the team?	<input type="checkbox"/>
	Have the expectations been communicated and has agreement been reached with the key stakeholders outside the team, including the end user/customer?	<input type="checkbox"/>

Table 29-6. Quality Assessment Checklist for Team Skill 5: Refining the System Definition

Use-case model(s)	If the system is composed of subsystems, does the use-case model appropriately reflect that?	<input type="checkbox"/>
	Have you found all the use cases?	<input type="checkbox"/>
	Do the use cases have unique, intuitive, and explanatory names so they cannot be mixed up at a later stage?	<input type="checkbox"/>
	Are all required system behaviors identified in one or more use cases?	<input type="checkbox"/>

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	Do customers and users understand the names and descriptions of the use cases?	<input type="checkbox"/>
	By looking at the use-case model, can you form a clear idea of the system's functions and how they are related ?	<input type="checkbox"/>
Use-case model(s)	Do the elaborated use cases meet all the functional requirements?	<input type="checkbox"/>
	Does the use-case model contain any superfluous behavior?	<input type="checkbox"/>
	That is, does it present more functions than were called for in the requirements?	<input type="checkbox"/>
	Does the model need the identified include and extend relationships?	<input type="checkbox"/>
	Can the model be simplified with additional relationships?	<input type="checkbox"/>
Use-case specifications	Is each use case involved with at least one actor?	<input type="checkbox"/>
	Does the brief description give a true picture of the use case?	<input type="checkbox"/>
	Is it clear who wishes to perform a use case? Is the purpose of the use case also clear?	<input type="checkbox"/>
	Do the elaborated use cases contain the necessary sections and the appropriate content for name , actors, brief description, primary and alternate flow of events, pre- and post-conditions, and special requirements?	<input type="checkbox"/>
	Is it clear how and when the use case's flow of events starts and ends?	<input type="checkbox"/>
	Is each use case independent of the others?	<input type="checkbox"/>
	Do any use cases have very similar behaviors or flows of events?	<input type="checkbox"/>
	Has part of a use case's flow of events already been modeled as another use case?	<input type="checkbox"/>
	Should the flow of events of one use case be inserted into the	<input type="checkbox"/>
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	Does the use case meet all the requirements that obviously govern its performance? Are use-case-specific nonfunctional requirements referenced where necessary?	<input type="checkbox"/>
	Does the communication sequence between actor and use case conform to the user's expectations?	<input type="checkbox"/>
	Is there a description of what will happen if a given condition is not met?	<input type="checkbox"/>
	Are any use cases overly complex?	<input type="checkbox"/>
	Are the actor interactions and exchanged information clear?	<input type="checkbox"/>
Supplementary specification(s)	Have you established an appropriate template for your specific purposes?	<input type="checkbox"/>
	Are almost all functional requirements included in the use-case model, and the balance, if any, reflected in the supplementary specification?	<input type="checkbox"/>
	Have nonfunctional requirements such as usability, reliability, performance, and supportability all been identified and captured?	<input type="checkbox"/>
	Have the appropriate design constraints been identified and captured?	<input type="checkbox"/>
	Have supplementary requirements been linked to the use cases where appropriate?	<input type="checkbox"/>
Ambiguity and specificity considerations	In general, has your team reached the appropriate level of specificity (the sweet spot) for your project context?	<input type="checkbox"/>
	How do you know that this has been achieved?	<input type="checkbox"/>
Technical methods (if any)	Have appropriate technical methods been employed to remove ambiguity in those cases where you cannot afford to be misunderstood?	<input type="checkbox"/>
	If so, can these methods themselves be understood by the key stakeholders?	<input type="checkbox"/>

Table 29-7. Quality A

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Transitioning method (from design to code)	Do you understand the mechanism by which you'll be transitioning from requirements into design and implementation?	<input type="checkbox"/>
	Is there a use-case realization (collaboration) for all use cases in the use-case model?	<input type="checkbox"/>
	Are there realizations for other functional requirements as well?	<input type="checkbox"/>
Test cases (derived and traceable from use cases)	Have the use cases been used to seed test case development?	<input type="checkbox"/>
	Have you followed the four-step process (identify scenarios, identify test cases, identify test conditions, add data values)?	<input type="checkbox"/>
	Are there one or more test cases for every use case?	<input type="checkbox"/>
Requirements traceability	Have you established a plan for requirements traceability?	<input type="checkbox"/>
	Have you identified and implemented adequate tooling?	<input type="checkbox"/>
	Have you identified and followed a specific traceability model for this project?	<input type="checkbox"/>
	Have you exploited implicit traceability to the maximum extent possible?	<input type="checkbox"/>
	Have you applied explicit traceability in all critical areas?	<input type="checkbox"/>
Requirements change management process	Do you understand the change sources and change dynamics for this project?	<input type="checkbox"/>
	Do you know a change when you see it?	<input type="checkbox"/>
	Does the project champion/product manager have control of this process?	<input type="checkbox"/>
	Is an appropriate change control board established and is it functional for your project?	<input type="checkbox"/>

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	Can you capture and manage change effectively with the tooling you've deployed?	<input type="checkbox"/>
	Do you have a way to capture and track defects on the project?	<input type="checkbox"/>
Requirements method <sup>[*]</sup>	Did you pick an appropriate requirements method?	<input type="checkbox"/>
	Does it reflect the key priorities of criticality and safety on the project?	<input type="checkbox"/>
	Does the method eliminate unnecessary documentation and overhead?	<input type="checkbox"/>
	Does the tooling adequately support the method you've chosen ?	<input type="checkbox"/>

<sup>[\*]</sup> We'll talk more about these issues in Chapter 30.

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