Survey on Quality Requirements

In the following survey you will be asked to estimate the relevance of several *quality requirements*.
At each step you will be presented with:

- a **quality concern**: an interest which pertains to the system's development, its operation or any other aspects that are critical or otherwise important to one or more stakeholders.
- some examples of **quality requirements** related to the specified quality concern.
- **questions** related to the quality concern.

The evaluation is subjective and should be based on your personal professional experience.
Before expressing your evaluation, please make sure you carefully read and understand the examples given for each quality concern. All information obtained from this study will be kept anonymous.

Motivation
The architecture of a software system is the result of a number of design decisions that aim at satisfying a given set of **quality requirements**, such as ease of evolution, good run-time performance, and rapid build times.
Architecture is rarely explicit in code and alignment between intended and actual architecture is often very difficult to validate and requires consistent human effort.
There have been several attempts to address this problem (e.g. component dependencies: JDepend, Sotograph, Structure 101; performance: JMeter) but there are still many aspects that remain ignored.
Our goal is to develop new ways for **expressing and validating quality requirements**.
We envision a set of tools that help identifying implementation solutions that break specified architectural requirements. This questionnaire will help us to identify the most relevant and commonly specified aspects of an architecture. This will provide a solid starting point for our research project.

Thanks for your collaboration.

Andrea Caracciolo
caracciolo (at) iam.unibe.ch

Start Survey

quality concern

Step **1** / 22

Naming conventions

examples of requirement related to this concern

- Component Interfaces end with the suffix '_CI'.
- Java bean classes end with the suffix 'Bean'.
- File names must conform to the following pattern: [DATE]_[SOME-ID].txt

questions (REQUIRED)

a. **FAMILIARITY**
Have you ever seen this kind of requirement in a project ?

○ **Yes**   ○ **No**

b. **IMPACT ON PROJECT SUCCESS**
How important was it to satisfy this kind of requirement ?

○ **1**	○ **2**	○ **3**	○ **4**	○ **5**
No impact on the project	Low impact	Moderate impact	High impact	Critical to project success

questions (OPTIONAL)

c. **FORMALISM**
How was the requirement specified ? ⓘ

☐ natural language   ☐ common formal notation: [_____]
☐ semi-formal notation: ☐ tool-specific notation: [_____]
[_____]
☐ ad-hoc formal notation   ☐ other: [_____]

d. **VERIFICATION**
How was the requirement validated during development ?

☐ no verification   ☐ whitebox test
☐ code review   ☐ testing tool: [_____]
☐ blackbox test   ☐ other: [_____]

e. **COMMENT**
Do you want to share any comment or personal example for this kind of requirement ?

[   ]

Back   **Next**

quality concern

Step **2** / 22

Availability

examples of requirement related to this concern

- The system must be reachable 99% of the times from 6h00 to 20h00.

questions (REQUIRED)

a. **FAMILIARITY**
Have you ever seen this kind of requirement in a project ?

○ **Yes**   ○ **No**

b. **IMPACT ON PROJECT SUCCESS**
How important was it to satisfy this kind of requirement ?

○ **1**	○ **2**	○ **3**	○ **4**	○ **5**
No impact on the project	Low impact	Moderate impact	High impact	Critical to project success

questions (OPTIONAL)

c. **FORMALISM**
How was the requirement specified ? ⓘ

☐ natural language   ☐ common formal notation: [   ]
☐ semi-formal notation: ☐ tool-specific notation: [   ]
[   ]
☐ ad-hoc formal notation   ☐ other: [   ]

d. **VERIFICATION**
How was the requirement validated during development ?

☐ no verification   ☐ whitebox test
☐ code review   ☐ testing tool: [   ]
☐ blackbox test   ☐ other: [   ]

e. **COMMENT**
Do you want to share any comment or personal example for this kind of requirement ?

[   ]

Back	**Next**

quality concern

Step **3** / 22

Response-time

examples of requirement related to this concern
- The system is time-critical and has to answer each request within 10 ms.
- The rendering operation has to be completed in less than 4ms.

questions (REQUIRED)

a. FAMILIARITY
Have you ever seen this kind of requirement in a project ?

○ **Yes**   ○ **No**

b. IMPACT ON PROJECT SUCCESS
How important was it to satisfy this kind of requirement ?

○ **1**	○ **2**	○ **3**	○ **4**	○ **5**
No impact on the project	Low impact	Moderate impact	High impact	Critical to project success

questions (OPTIONAL)

c. FORMALISM
How was the requirement specified ? ⓘ

☐ natural language   ☐ common formal notation: [   ]

☐ semi-formal notation: ☐ tool-specific notation: [   ]
[   ]

☐ ad-hoc formal notation   ☐ other: [   ]

d. VERIFICATION
How was the requirement validated during development ?

☐ no verification   ☐ whitebox test

☐ code review   ☐ testing tool: [   ]

☐ blackbox test   ☐ other: [   ]

e. COMMENT
Do you want to share any comment or personal example for this kind of requirement ?

[   ]

Back   **Next**

quality concern

Step **4** / 22

Throughput

examples of requirement related to this concern

- The system must be able to execute a certain task 10'000 times per hour.

questions (REQUIRED)

a. FAMILIARITY
Have you ever seen this kind of requirement in a project ?

○ **Yes**   ○ **No**

b. IMPACT ON PROJECT SUCCESS
How important was it to satisfy this kind of requirement ?

○ **1**	○ **2**	○ **3**	○ **4**	○ **5**
No impact on the project	Low impact	Moderate impact	High impact	Critical to project success

questions (OPTIONAL)

c. FORMALISM
How was the requirement specified ? ⓘ

☐ natural language   ☐ common formal notation: [_____]

☐ semi-formal notation: ☐ tool-specific notation: [_____]
[_____]

☐ ad-hoc formal notation   ☐ other: [_____]

d. VERIFICATION
How was the requirement validated during development ?

☐ no verification   ☐ whitebox test

☐ code review   ☐ testing tool: [_____]

☐ blackbox test   ☐ other: [_____]

e. COMMENT
Do you want to share any comment or personal example for this kind of requirement ?

[   ]

Back	**Next**

quality concern

Step **5** / 22

Recoverability

examples of requirement related to this concern

- The system has to be operational again within 1h after a crash.

questions (REQUIRED)

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a. **FAMILIARITY**
Have you ever seen this kind of requirement in a project ?

○ **Yes**   ○ **No**

b. **IMPACT ON PROJECT SUCCESS**
How important was it to satisfy this kind of requirement ?

○ **1**	○ **2**	○ **3**	○ **4**	○ **5**
No impact on the project	Low impact	Moderate impact	High impact	Critical to project success

---

questions (OPTIONAL)

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c. **FORMALISM**
How was the requirement specified ? ⓘ

☐ natural language   ☐ common formal notation: [   ]
☐ semi-formal notation: ☐ tool-specific notation: [   ]
[   ]
☐ ad-hoc formal notation   ☐ other: [   ]

d. **VERIFICATION**
How was the requirement validated during development ?

☐ no verification   ☐ whitebox test
☐ code review   ☐ testing tool: [   ]
☐ blackbox test   ☐ other: [   ]

e. **COMMENT**
Do you want to share any comment or personal example for this kind of requirement ?

[   ]

Back   **Next**

quality concern

Step **6** / 22

Dependencies

examples of requirement related to this concern

- Component A cannot invoke method X of component B
- Service A can only interact with service B
- Maven artifact A is not allowed to depend on any other artifact.

questions (REQUIRED)

a. **FAMILIARITY**
Have you ever seen this kind of requirement in a project ?

○ **Yes**   ○ **No**

b. **IMPACT ON PROJECT SUCCESS**
How important was it to satisfy this kind of requirement ?

○ **1**	○ **2**	○ **3**	○ **4**	○ **5**
No impact on the project	Low impact	Moderate impact	High impact	Critical to project success

questions (OPTIONAL)

c. **FORMALISM**
How was the requirement specified ? ⓘ

☐ natural language   ☐ common formal notation: [   ]
☐ semi-formal notation: ☐ tool-specific notation: [   ]
[   ]
☐ ad-hoc formal notation   ☐ other: [   ]

d. **VERIFICATION**
How was the requirement validated during development ?

☐ no verification   ☐ whitebox test
☐ code review   ☐ testing tool: [   ]
☐ blackbox test   ☐ other: [   ]

e. **COMMENT**
Do you want to share any comment or personal example for this kind of requirement ?

[   ]

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quality concern   Step **7** / 22

Signature

examples of requirement related to this concern
- The web service must have the the following parameters: Amount (xsd:double), Currency (xsd:string).
- The interface of the component must provide the following methods: push(Message), pull():Result.

questions (REQUIRED)

a. FAMILIARITY
Have you ever seen this kind of requirement in a project ?

○ **Yes**   ○ **No**

b. IMPACT ON PROJECT SUCCESS
How important was it to satisfy this kind of requirement ?

○ **1**   ○ **2**   ○ **3**   ○ **4**   ○ **5**

No impact on the project   Low impact   Moderate impact   High impact   Critical to project success

questions (OPTIONAL)

c. FORMALISM
How was the requirement specified ? ⓘ

☐ natural language   ☐ common formal notation: [＿＿＿＿]
☐ semi-formal notation: ☐ tool-specific notation: [＿＿＿＿]
[＿＿＿＿]
☐ ad-hoc formal notation   ☐ other: [＿＿＿＿]

d. VERIFICATION
How was the requirement validated during development ?

☐ no verification   ☐ whitebox test
☐ code review   ☐ testing tool: [＿＿＿＿]

☐ blackbox test   ☐ other: [＿＿＿＿]

e. COMMENT
Do you want to share any comment or personal example for this kind of requirement ?

[＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿]

Back   **Next**

quality concern   Step **8** / 22

File location

examples of requirement related to this concern
- web.xml must be located at src/main/webapp/WEB-INF/

questions (REQUIRED)

a. FAMILIARITY
Have you ever seen this kind of requirement in a project ?

◯ **Yes**   ◯ **No**

b. IMPACT ON PROJECT SUCCESS
How important was it to satisfy this kind of requirement ?

◯ **1**   ◯ **2**   ◯ **3**   ◯ **4**   ◯ **5**

No impact on the   Low impact   Moderate impact   High impact   Critical to project
project   success

questions (OPTIONAL)

c. FORMALISM
How was the requirement specified ? ⓘ

☐ natural language   ☐ common formal notation: [_____]
☐ semi-formal notation: ☐ tool-specific notation: [_____]
[_____]
☐ ad-hoc formal notation   ☐ other: [_____]

d. VERIFICATION
How was the requirement validated during development ?

☐ no verification   ☐ whitebox test
☐ code review   ☐ testing tool: [_____]
☐ blackbox test   ☐ other: [_____]

e. COMMENT
Do you want to share any comment or personal example for this kind of requirement ?

[   ]

Back   **Next**

quality concern Step **9** / 22

Data structure

examples of requirement related to this concern

- Dependencies must be specified in the configuration file in the following way: <dependency> <groupId>...</groupId> </dependency>
- The database schema must conform to a specified ER diagram

questions (REQUIRED)

a. **FAMILIARITY**
Have you ever seen this kind of requirement in a project ?

○ **Yes** ○ **No**

b. **IMPACT ON PROJECT SUCCESS**
How important was it to satisfy this kind of requirement ?

○ **1** ○ **2** ○ **3** ○ **4** ○ **5**

No impact on the project | Low impact | Moderate impact | High impact | Critical to project success

questions (OPTIONAL)

c. **FORMALISM**
How was the requirement specified ? ⓘ

☐ natural language ☐ common formal notation: [ ]
☐ semi-formal notation: ☐ tool-specific notation: [ ]
[ ]
☐ ad-hoc formal notation ☐ other: [ ]

d. **VERIFICATION**
How was the requirement validated during development ?

☐ no verification ☐ whitebox test
☐ code review ☐ testing tool: [ ]
☐ blackbox test ☐ other: [ ]

e. **COMMENT**
Do you want to share any comment or personal example for this kind of requirement ?

[ ]

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quality concern   Step **10** / 22

Meta-annotation

examples of requirement related to this concern
- Attributes of type DateTime must be annotated with @CustomDate(format = "d-m-Y").
- Data transfer object classes must be annotated with @DTO.

questions (REQUIRED)

a. FAMILIARITY
Have you ever seen this kind of requirement in a project ?

○ **Yes**   ○ **No**

b. IMPACT ON PROJECT SUCCESS
How important was it to satisfy this kind of requirement ?

○ **1**	○ **2**	○ **3**	○ **4**	○ **5**
No impact on the project	Low impact	Moderate impact	High impact	Critical to project success

questions (OPTIONAL)

c. FORMALISM
How was the requirement specified ? ⓘ

☐ natural language   ☐ common formal notation: [   ]
☐ semi-formal notation: ☐ tool-specific notation: [   ]
[   ]
☐ ad-hoc formal notation   ☐ other: [   ]

d. VERIFICATION
How was the requirement validated during development ?

☐ no verification   ☐ whitebox test
☐ code review   ☐ testing tool: [   ]

☐ blackbox test   ☐ other: [   ]

e. COMMENT
Do you want to share any comment or personal example for this kind of requirement ?

[   ]

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quality concern

Step **11** / 22

Communication

examples of requirement related to this concern

- Communication must be synchronous; protocol used must be HTTPS
- Data is exchanged between layers using DTOs.

questions (REQUIRED)

a. FAMILIARITY
Have you ever seen this kind of requirement in a project ?

○ **Yes**   ○ **No**

b. IMPACT ON PROJECT SUCCESS
How important was it to satisfy this kind of requirement ?

○ **1**   ○ **2**   ○ **3**   ○ **4**   ○ **5**

No impact on the   Low impact   Moderate impact   High impact   Critical to project
project   success

questions (OPTIONAL)

c. FORMALISM
How was the requirement specified ? ⓘ

☐ natural language   ☐ common formal notation: [_____]
☐ semi-formal notation: ☐ tool-specific notation: [_____]
[_____]
☐ ad-hoc formal notation   ☐ other: [_____]

d. VERIFICATION
How was the requirement validated during development ?

☐ no verification   ☐ whitebox test
☐ code review   ☐ testing tool: [_____]

☐ blackbox test   ☐ other: [_____]

e. COMMENT
Do you want to share any comment or personal example for this kind of requirement ?

[   ]

Back   **Next**

quality concern   Step **12** / 22

Data integrity

examples of requirement related to this concern

- Instance values of datatype IBAN must start with an ISO 3166-1 country code.
- Attributes with annotation @date must conform to the following pattern: dd-mm-yyyy.

questions (REQUIRED)

a. **FAMILIARITY**
Have you ever seen this kind of requirement in a project ?

○ **Yes**   ○ **No**

b. **IMPACT ON PROJECT SUCCESS**
How important was it to satisfy this kind of requirement ?

○ **1**	○ **2**	○ **3**	○ **4**	○ **5**
No impact on the project	Low impact	Moderate impact	High impact	Critical to project success

questions (OPTIONAL)

c. **FORMALISM**
How was the requirement specified ? ⓘ

☐ natural language   ☐ common formal notation: [_____]

☐ semi-formal notation: ☐ tool-specific notation: [_____]
[_____]

☐ ad-hoc formal notation   ☐ other: [_____]

d. **VERIFICATION**
How was the requirement validated during development ?

☐ no verification   ☐ whitebox test

☐ code review   ☐ testing tool: [_____]

☐ blackbox test   ☐ other: [_____]

e. **COMMENT**
Do you want to share any comment or personal example for this kind of requirement ?

[   ]

Back   **Next**

quality concern

Data retention policy

examples of requirement related to this concern

- Logs can only be deleted after 10 weeks.
- Only the last 4 digits of a credit card number can be stored.

questions (REQUIRED)

a. FAMILIARITY
Have you ever seen this kind of requirement in a project ?

○ **Yes**   ○ **No**

b. IMPACT ON PROJECT SUCCESS
How important was it to satisfy this kind of requirement ?

○ **1**   ○ **2**   ○ **3**   ○ **4**   ○ **5**

No impact on the project | Low impact | Moderate impact | High impact | Critical to project success

questions (OPTIONAL)

c. FORMALISM
How was the requirement specified ? ⓘ

☐ natural language   ☐ common formal notation: [ ]
☐ semi-formal notation: ☐ tool-specific notation: [ ]
[ ]
☐ ad-hoc formal notation   ☐ other: [ ]

d. VERIFICATION
How was the requirement validated during development ?

☐ no verification   ☐ whitebox test
☐ code review   ☐ testing tool: [ ]

☐ blackbox test   ☐ other: [ ]

e. COMMENT
Do you want to share any comment or personal example for this kind of requirement ?

[ ]

Back   **Next**

quality concern   Step **14** / 22

Accessibility

examples of requirement related to this concern
- The web front-end must be accessible to color blind users.

questions (REQUIRED)

a. FAMILIARITY
Have you ever seen this kind of requirement in a project ?

○ **Yes**   ○ **No**

b. IMPACT ON PROJECT SUCCESS
How important was it to satisfy this kind of requirement ?

○ **1**   ○ **2**   ○ **3**   ○ **4**   ○ **5**

No impact on the   Low impact   Moderate impact   High impact   Critical to project
project   success

questions (OPTIONAL)

c. FORMALISM
How was the requirement specified ? ⓘ

☐ natural language   ☐ common formal notation: [   ]
☐ semi-formal notation: ☐ tool-specific notation: [   ]
[   ]
☐ ad-hoc formal notation   ☐ other: [   ]

d. VERIFICATION
How was the requirement validated during development ?

☐ no verification   ☐ whitebox test
☐ code review   ☐ testing tool: [   ]
☐ blackbox test   ☐ other: [   ]

e. COMMENT
Do you want to share any comment or personal example for this kind of requirement ?

[   ]

Back   **Next**

quality concern   Step **15** / 22

Visual design

examples of requirement related to this concern
  • The web front-end must comply to the standard corporate design guidelines.

questions (REQUIRED)

a. **FAMILIARITY**
Have you ever seen this kind of requirement in a project ?

○ **Yes**   ○ **No**

b. **IMPACT ON PROJECT SUCCESS**
How important was it to satisfy this kind of requirement ?

○ **1**   ○ **2**   ○ **3**   ○ **4**   ○ **5**

No impact on the   Low impact   Moderate impact   High impact   Critical to project
project   success

questions (OPTIONAL)

c. **FORMALISM**
How was the requirement specified ? ⓘ

☐ natural language   ☐ common formal notation: [   ]
☐ semi-formal notation: ☐ tool-specific notation: [   ]
[   ]
☐ ad-hoc formal notation   ☐ other: [   ]

d. **VERIFICATION**
How was the requirement validated during development ?

☐ no verification   ☐ whitebox test
☐ code review   ☐ testing tool: [   ]
☐ blackbox test   ☐ other: [   ]

e. **COMMENT**
Do you want to share any comment or personal example for this kind of requirement ?

[   ]

[**Back**]   [**Next**]

Event handling

examples of requirement related to this concern

- Exceptions of type MyException must be handled within the layer where they were generated.
- Each file download must be logged in downloads.log.

questions (REQUIRED)

a. **FAMILIARITY**
Have you ever seen this kind of requirement in a project ?

⦿ **Yes**   ○ **No**

b. **IMPACT ON PROJECT SUCCESS**
How important was it to satisfy this kind of requirement ?

⦿ **1**   ○ **2**   ○ **3**   ○ **4**   ○ **5**

No impact on the   Low impact   Moderate impact   High impact   Critical to project
project   success

questions (OPTIONAL)

c. **FORMALISM**
How was the requirement specified ? ⓘ

☐ natural language   ☐ common formal notation: [   ]
☐ semi-formal notation: ☐ tool-specific notation: [   ]
  [   ]
☐ ad-hoc formal notation   ☐ other: [   ]

d. **VERIFICATION**
How was the requirement validated during development ?

☐ no verification   ☐ whitebox test
☐ code review   ☐ testing tool: [   ]

☐ blackbox test   ☐ other: [   ]

e. **COMMENT**
Do you want to share any comment or personal example for this kind of requirement ?

[   ]

Back   **Next**

quality concern

Step **17** / 22

<u>Authorization</u>

examples of requirement related to this concern

- Access to the service is restricted to users having role A or being part of group B.

questions (REQUIRED)

a. FAMILIARITY
Have you ever seen this kind of requirement in a project ?

○ **Yes**   ○ **No**

b. IMPACT ON PROJECT SUCCESS
How important was it to satisfy this kind of requirement ?

○ **1**	○ **2**	○ **3**	○ **4**	○ **5**
No impact on the project	Low impact	Moderate impact	High impact	Critical to project success

questions (OPTIONAL)

c. FORMALISM
How was the requirement specified ? ⓘ

☐ natural language   ☐ common formal notation: [_____]

☐ semi-formal notation: ☐ tool-specific notation: [_____]
[_____]
                                      ☐ other: [_____]
☐ ad-hoc formal notation

d. VERIFICATION
How was the requirement validated during development ?

☐ no verification   ☐ whitebox test

☐ code review   ☐ testing tool: [_____]

☐ blackbox test   ☐ other: [_____]

e. COMMENT
Do you want to share any comment or personal example for this kind of requirement ?

[   ]

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quality concern   Step **18** / 22

Authentication

examples of requirement related to this concern

- The user has to confirm his identity using the single sign-on service of the company.

questions (REQUIRED)

a. FAMILIARITY
Have you ever seen this kind of requirement in a project ?

○ **Yes**   ○ **No**

b. IMPACT ON PROJECT SUCCESS
How important was it to satisfy this kind of requirement ?

○ **1**   ○ **2**   ○ **3**   ○ **4**   ○ **5**

No impact on the   Low impact   Moderate impact   High impact   Critical to project
project   success

questions (OPTIONAL)

c. FORMALISM
How was the requirement specified ? ⓘ

☐ natural language   ☐ common formal notation: [   ]
☐ semi-formal notation: ☐ tool-specific notation: [   ]
[   ]   ☐ other: [   ]
☐ ad-hoc formal notation

d. VERIFICATION
How was the requirement validated during development ?

☐ no verification   ☐ whitebox test
☐ code review   ☐ testing tool: [   ]
☐ blackbox test   ☐ other: [   ]

e. COMMENT
Do you want to share any comment or personal example for this kind of requirement ?

[   ]

Back   **Next**

quality concern

Step **19** / 22

Code quality

examples of requirement related to this concern

- Code-coverage for unit tests must be > 85%.
- Average length of javadoc comments for non-accessor methods must be more than 10 words.

questions (REQUIRED)

a. FAMILIARITY
Have you ever seen this kind of requirement in a project ?

○ **Yes**   ○ **No**

b. IMPACT ON PROJECT SUCCESS
How important was it to satisfy this kind of requirement ?

○ **1**	○ **2**	○ **3**	○ **4**	○ **5**
No impact on the project	Low impact	Moderate impact	High impact	Critical to project success

questions (OPTIONAL)

c. FORMALISM
How was the requirement specified ? ⓘ

☐ natural language   ☐ common formal notation: [   ]
☐ semi-formal notation: ☐ tool-specific notation: [   ]
[   ]   ☐ other: [   ]
☐ ad-hoc formal notation

d. VERIFICATION
How was the requirement validated during development ?

☐ no verification   ☐ whitebox test
☐ code review   ☐ testing tool: [   ]

☐ blackbox test   ☐ other: [   ]

e. COMMENT
Do you want to share any comment or personal example for this kind of requirement ?

[   ]

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quality concern   Step **20** / 22

Software infrastructure

examples of requirement related to this concern

- All servers must run RedHat 1.23, Tomcat 1.23, Oracle 1.23.
- Components communicate with each other using CORBA

questions (REQUIRED)

a. **FAMILIARITY**
Have you ever seen this kind of requirement in a project ?

○ **Yes**   ○ **No**

b. **IMPACT ON PROJECT SUCCESS**
How important was it to satisfy this kind of requirement ?

○ **1**	○ **2**	○ **3**	○ **4**	○ **5**
No impact on the project	Low impact	Moderate impact	High impact	Critical to project success

questions (OPTIONAL)

c. **FORMALISM**
How was the requirement specified ? ⓘ

☐ natural language   ☐ common formal notation: [   ]
☐ semi-formal notation: ☐ tool-specific notation: [   ]
[   ]
☐ ad-hoc formal notation   ☐ other: [   ]

d. **VERIFICATION**
How was the requirement validated during development ?

☐ no verification   ☐ whitebox test
☐ code review   ☐ testing tool: [   ]

☐ blackbox test   ☐ other: [   ]

e. **COMMENT**
Do you want to share any comment or personal example for this kind of requirement ?

[   ]

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quality concern

Step **21** / 22

Software update

examples of requirement related to this concern

- New security updates must be installed within 1 week from their release.
- The library cannot be updated to non long-term support versions

questions (REQUIRED)

a. **FAMILIARITY**
Have you ever seen this kind of requirement in a project ?

○ **Yes**   ○ **No**

b. **IMPACT ON PROJECT SUCCESS**
How important was it to satisfy this kind of requirement ?

○ **1**   ○ **2**   ○ **3**   ○ **4**   ○ **5**

No impact on the   Low impact   Moderate impact   High impact   Critical to project
project   success

questions (OPTIONAL)

c. **FORMALISM**
How was the requirement specified ? ⓘ

☐ natural language   ☐ common formal notation: [   ]
☐ semi-formal notation: ☐ tool-specific notation: [   ]
[   ]
☐ ad-hoc formal notation   ☐ other: [   ]

d. **VERIFICATION**
How was the requirement validated during development ?

☐ no verification   ☐ whitebox test
☐ code review   ☐ testing tool: [   ]

☐ blackbox test   ☐ other: [   ]

e. **COMMENT**
Do you want to share any comment or personal example for this kind of requirement ?

[   ]

Back   **Next**

quality concern   Step **22** / 22

Hardware infrastructure

examples of requirement related to this concern
- Server must have 48GB RAM, 2 x 2.6GHz Intel Xeon processor, 1TB hard disk.

questions (REQUIRED)

a. FAMILIARITY
Have you ever seen this kind of requirement in a project ?

○ **Yes**   ○ **No**

b. IMPACT ON PROJECT SUCCESS
How important was it to satisfy this kind of requirement ?

○ **1**   ○ **2**   ○ **3**   ○ **4**   ○ **5**

No impact on the   Low impact   Moderate impact   High impact   Critical to project
project   success

questions (OPTIONAL)

c. FORMALISM
How was the requirement specified ? ⓘ

☐ natural language   ☐ common formal notation: [_____]
☐ semi-formal notation: ☐ tool-specific notation: [_____]
[_____]
☐ ad-hoc formal notation   ☐ other: [_____]

d. VERIFICATION
How was the requirement validated during development ?

☐ no verification   ☐ whitebox test
☐ code review   ☐ testing tool: [_____]
☐ blackbox test   ☐ other: [_____]

e. COMMENT
Do you want to share any comment or personal example for this kind of requirement ?

[_____]

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Profile & Feedback (optional)

- Email:

☑ I want to receive updates about major research results

- Role in the company:

- IT domain:

- Usually adopted Technology stack:

- Additional constraints (did we forget to mention any?):

- Notes (personal comments, clarifications, ..):

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