Companion Requirements

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1.2.1 -- 2021-03-23

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This document constitutes the requirements book of the Requirements Handbook Companion. It follows the method presented in the Handbook of requirements and business analysis. It uses the Asciidoc template available here.

CHANGELOG

Version	Date	Comment
1.0	2021-02-01	Initial draft by J.-M. Bruel
1.1	2021-02-08	Organization in separate books' files, by J.-M. Bruel
1.2	2021-02-21	Writing of the Process book, by J.-M. Bruel
1.2.1	2021-02-29	Minor improvements of verification rules, by J.-M. Bruel
1.2.1	*2021-03-23*	*Current PDF version, by J.-M. Bruel*

Goals

ϙ | *Front matter*

G.1 Overall context and goals

1 The main purpose of the Companion Book is to complement the Handbook by providing useful additional material, examples, templates, and full PEGS use cases.

⊗ [Corresponding Artifact]

G.2 Current situation

G.3 Expected benefits

1 Readers of the Companion Book should be able to find some templates for the requirements' book structure.

⊘ Corresponding Artifact

G.4 System overview

2 The *system* under development in this specification is an unusual one: a book! It will serve as a companion for the Handbook.

⊗ [Corresponding Artifact]

G.5 Limitations and exclusions

G.6 Stakeholders

Here is a non-exhaustive list of the stakeholders.

Table 1. Target side stakeholders

Stakeholder	Category	Comment
Springer	Legal department	In charge of the edition of the Companion Book
Readers of the Handbook	User	Readers of the main Handbook that might need additional information about the method
Readers of the Companion Book	User	Person reading the Companion Book who might not have access to the main Handbook

Table 2. Production side stakeholders

Stakeholder	Category	Comment
Author of the Handbook	Domain Expert	Bertrand Meyer, author of the Handbook, and main evaluator of the Companion Book
Author of the Companion Book	Project Manager	J.-M. Bruel, author and effort leader of the Companion Book

G.7 Requirements sources

Most of the requirements come from the Handbook.

> *Back matter*
>
> **TBD list**
>
> > [p1-persons].

Environment

E.1 Glossary

This section defines the domain-specific terms used in this document.

It also lists the icons used in this document.

1 Terms

Companion Book

> The *system* to be developed: the companion book of [Handbook]. Current version available here.

Handbook

> The book, entitled "Handbook of requirements and business analysis", written by Bertrand Meyer (see PDF here), and for which the [companion] serves as complementary material.

2 Icons

Here is the list of significations for the icons used when tracing the corresponding artifacts:

Table 3. Icons signification

Icon	Signification
⊘	A precisely referenced artifact satisfying the requirement
🐞	An artifact not yet fully functional
⊗	No corresponding artifact yet (requirement not satisfied)

E.2 Components

Not applicable.

E.3 Constraints

1 The [companion] should itself apply the method described in the [handbook].

E.4 Assumptions

Not applicable.

E.5 Effects

Not applicable.

E.6 Invariants

Not applicable.

Process

P.1 Roles

1 Here are the roles for the production of the Companion Book:

- Leader: The person in charge of leading and organizing the writing effort.

- Writers: The persons contributing to the writing effort.

- Reviewers: The persons in charge of reviewing the Companion Book.

⊘ Corresponding Artifact

P.2 Personnel characteristics and constraints

2 Here are the identified people involved in the development of the Companion Book:

- Leader: The writing effort of the Companion Book is under the responsibility of J.-M. Bruel.

- Writers: In addition to J.-M. Bruel, here are the persons involved: Sophie Ebersold, Marya Naumchev, Alexandr Naumchev, Florian Galinier

- Reviewers: In addition to Bertrand Meyer, author of Handbook, some reviewers will be found among early adopters of Handbook.

TBD

> **Author**
>
> J.-M. Bruel
>
> **Date**
>
> 2021-02-21
>
> **Deadline**
>
> June
>
> **Importance**
>
> serious
>
> **Needs**
>
> ☐ stakeholders to ask
>
> ☐ documentation to consider
>
> ☑ management decision (by Bertrand Meyer)

⊗ [Corresponding Artifact]

P.3 Imposed technical choices

3 The Companion Book should be written in English.

4 The Companion Book should be written in one of the compatible inputs of the publisher, Springer.

⊗ [Corresponding Artifact]

P.4 Schedule and milestones

5 The expected date of the Companion Book is the end of June.

P.5 Tasks and deliverables

6 The tasks are managed through the use of a collaborative repository: https://github.com/ FormalRequirements/requirements-handbook.

P.6 Risk and mitigation analysis

At this point, there is no mitigation analysis.

P.7 Requirements process and report

The production of the Companion Book will not follow a particular requirements process.

💡 *Back matter*
TBD list
   [p2-persons].

System

S.1 Components

The components of the [companion] initially identified are the following:

- 1 An overview of the PEGS method.
- 2 At least one case study (Roborace)
- 3 At least one book template

S.2 Functionality

S.3 Interfaces

S.4 Scenarios (use cases, user stories)

S.5 Prioritization

S.6 Verification and acceptance criteria

Here are some examples of verification rules currently implemented in the Companion Book.

1 The books may reference each other, but not arbitrarily. The following diagram shows which books may refer to which.

> ℹ️ It only governs the actual contents, ignoring the front and back matter.
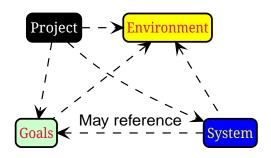

Figure 1. Possible references between the books

⊘ Corresponding artifact