



SmartHome Requirements

J.-M. Bruel

1.1 – 2021-10-01

Table of Contents

Goals	2
G.1 Context and overall objective	2
G.2 Current situation	2
G.3 Expected benefits	2
G.4 Functionality overview	2
G.5 High-level usage scenarios	2
G.6 Limitations and exclusions	2
G.7 Stakeholders and requirements sources	2
Environment	4
E.1 Glossary	4
E.2 Components	4
E.3 Constraints	4
E.4 Assumptions	4
E.5 Effects	4
E.6 Invariants	4
Project	5
P.1 Roles	5
P.2 Personnel characteristics and constraints	5
P.3 Imposed technical choices	5
P.4 Schedule and milestones	6
P.5 Tasks and deliverables	6
P.6 Risk and mitigation analysis	6
P.7 Requirements process and report	6
System	7
S.1 Components	7
S.2 Functionality	7
S.3 Interfaces	7
S.4 Detailed usage scenarios	7
S.5 Prioritization	7
S.6 Verification and acceptance criteria	7



This repository constitutes the requirements of the [Smart Home Challenge Problem](#). It follows the method presented in the {HandbookPDF}[Handbook of requirements and business analysis]. It uses the AsciiDoc template available {companionGit}/blob/issue-14-

Write_an_Asciidoc_template_for_PEGS/templates/asciidoc/book.adoc[here].

CHANGELOG

Version	Date	Comment
1.0	2021-09-23	Initial draft by J.-M. Bruel
1.1	2021-09-27	Stackeholders' initial definition by J.-M. Bruel
<i>1.1</i>	<i>2021-10-01</i>	<i>Current PDF version, by J.-M. Bruel</i>

Goals



Front matter

G.1 Context and overall objective

⚠ Nothing available at this point.

G.2 Current situation

⚠ Nothing available at this point.

G.3 Expected benefits

⚠ Nothing available at this point.

G.4 Functionality overview

1 The [Smart Home](#) must support prevention and detection of unauthorized physical intrusion.

2 The [Smart Home](#) must support prevention and detection of unauthorized computer intrusion.

3 The [Smart Home](#) must provide an identification-based access control system.

G.5 High-level usage scenarios

⚠ Nothing available at this point.

G.6 Limitations and exclusions

⚠ Nothing available at this point.

G.7 Stakeholders and requirements sources

Here is a non-exhaustive list of the stakeholders.

Table 1. Target side stakeholders

Stakeholder	Category	Comment
Owner	User	Owner of the Smart Home (not necessarily inhabiting it).
Inhabitants	User	People leaving regularly in the Smart Home .
Medical staff	Medical department	Person in charge of the health of the inhabitants .

Table 2. Production side stakeholders

Stakeholder	Category	Comment
System Admin	Technical department	...



Front matter

Environment

E.1 Glossary

This section defines the domain-specific terms used in this document. It also lists the icons used in this document. For stakeholders definitions, see [G.7 Stakeholders and requirements sources](#).

1 Terms

Here is a list of terms' definitions in alphabetical order:

Smart Home

The system under development: a home featuring a broad range of automated services to make it, e.g., more convenient, safer, or less costly to live in.

2 Icons

Here is the list of significations for the icons used when tracing the implementation 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

⚠ Nothing available at this point.

E.3 Constraints

1 Ipse Lorem

E.4 Assumptions

⚠ Nothing available at this point.

E.5 Effects

⚠ Nothing available at this point.

E.6 Invariants

⚠ Nothing available at this point.

Project



Front matter

P.1 Roles

Q 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](#).

☑ {companionURL}/#_book_templates[Corresponding Artifact]

P.2 Personnel characteristics and constraints

R Ipse Lorem

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

S Ipse Lorem

⊗ [Corresponding Artifact]

P.4 Schedule and milestones

T Ipse Lorem

P.5 Tasks and deliverables

⚠ Nothing available at this point.

P.6 Risk and mitigation analysis

⚠ Nothing available at this point.

P.7 Requirements process and report

⚠ Nothing available at this point.



Back matter

TBD list

[\[p2-persons\]](#).

System

S.1 Components

⚠ Nothing available at this point.

S.2 Functionality

⚠ Nothing available at this point.

S.3 Interfaces

⚠ Nothing available at this point.

S.4 Detailed usage scenarios

⚠ Nothing available at this point.

S.5 Prioritization

⚠ Nothing available at this point.

S.6 Verification and acceptance criteria

⚠ Nothing available at this point.

