A Glossary of Requirements Engineering Terminology

Tradução para o Brasil
Brasileiro – English / English – Brasileiro

Caution: This glossary is aligned to the
CPRE Foundation Level syllabus 3.0 only!

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Brazilian version of: Standard Glossary for the Certified Professional for Requirements Engineering (CPRE) Studies and Exam

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Version History

Version 1.1	May 2011: Initial Document
Version 2.0.0	April 2021: Major revision and extension of terminology covered by this glossary, including important terms from the CPRE Advanced Levels.
	Aligned with the terminology used in the CPRE Foundation Level 3.0. Implemented the alignment between the IREB and ISTQB glossaries.
	Created the first independent document for the Portuguese (Brasil) Glossary

Table of Contents

Definition of Terms

Terms formatted in **bold** are key terms that have to be known on the IREB CPRE Foundation Level.

Termo (brasileiro)	Term (English)	Definition (English)
Aceitação, aceite	Acceptance	The process of assessing whether a ↑system satisfies all its ↑requirements.

Termo (brasileiro)	Term (English)	Definition (English)
Adequação (do requisito)	**Adequacy** (of a requirement)	The degree to which a ↑requirement expresses the ↑stakeholders' true and agreed desires and needs (i.e., those they had actually in mind when stating the requirement).

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Termo (brasileiro)	Term (English)	Definition (English)
Ágil	**Agile**	1. In general: (a) Able to move quickly and easily. (b) Quick, smart, and clever. 2. In software development: A development approach which builds a product ↑incrementally by dividing work into ↑iterations of fixed duration (↑timeboxes). **Note:** Agile development is characterized by focusing on delivering a working product in each iteration, collaboration with ↑stakeholders with frequent feedback and adaptation of plans after each iteration based on feedback and changed ↑requirements.
Ambiguidade	Ambiguity	The contrary of →unambiguity
Análise de requisitos	Requirements analysis	1. Analysis of elicited ↑requirements in order to understand and document them. 2. Synonym for ↑Requirements Engineering.

Termo (brasileiro)	Term (English)	Definition (English)
Análise estruturada	Structured Analysis	An approach for specifying the ↑functionality of a system based on a hierarchy of ↑data flow diagrams. Data flows as well as persistent data are defined in a data dictionary. A ↑context diagram models the sources of incoming and the destinations of outgoing ↑data flows.
Artefato	Artifact	Synonym for ↑work product.
Associação	Association	In UML: A relationship between two ↑classes in a ↑UML ↑class model.
Atividade	Activity	An action or a set of actions that a person or group performs to accomplish a ↑task.
Ator	**Actor**	A person in some ↑role, a ↑system or a technical device in the context of a subject under consideration that interacts with that subject. **Note:** In RE, the subject under consideration typically is a ↑system. In testing, it may be a test ↑object.
Atributo	**Attribute**	A characteristic property of an ↑entity or an ↑object.
Backlog	Backlog	→ Product backlog, → sprint backlog
Backlog da sprint	Sprint backlog	A set of ↑product backlog items that have been selected to be implemented in the current ↑sprint.
Backlog do produto	**Product backlog**	An ordered, typically prioritized collection of work items that a development team has to work on when developing or evolving a ↑system. **Note:** Items include ↑requirements, ↑defects to be fixed, or ↑refactorings to be done.

Termo (brasileiro)	Term (English)	Definition (English)
Baseline de requisitos, lilnha de base de requisitos	Requirements baseline	A ↑baseline for a set of ↑requirements.
Baseline, linha de base	**Baseline**	A stable, change-controlled ↑configuration of ↑work products. **Note:** Baselines serve for ↑release planning and release definition as well as for project management purposes such as effort estimation.
Branch de requisitos, ramificação de requisitos	Requirements branching	→ Branch
Branch, ramificação	Branch	A line of ↑configurations or ↑work product ↑versions that forks away from the main line (or from another branch) at some point in time. **Note:** A branch is created by making a copy of some configuration or work product version and making this copy the root of the branch. A branch may be merged with the main line or with another branch at some later point in time.
Característica, recurso, funcionalidade	**Feature**	A distinguishing characteristic of a ↑system that provides value for ↑stakeholders. **Note:** A feature typically comprises several ↑requirements and is used for communicating with ↑stakeholders on a higher level of abstraction and for expressing variable or optional characteristics.
Cardinalidade	Cardinality	1. In modeling: The minimum and maximum number of ↑objects in a relationship. 2. In mathematics: The number of elements in a set. **Note:** In ↑UML, the term multiplicity is used for cardinality.

Termo (brasileiro)	Term (English)	Definition (English)
Caso de uso	**Use case**	A set of possible interactions between external ↑actors and a ↑system that provide a benefit for the actor(s) involved.
		Note: Use cases specify a system from a user's (or other external actor's) perspective: every use case describes some ↑functionality that the system must provide for the actors involved in the use case.
Cenário	Scenario	1. In general: A description of a potential sequence of events that lead to a desired (or unwanted) result. 2. In RE: An ordered sequence of interactions between partners, in particular between a ↑system and external ↑actors. May be a concrete sequence (instance scenario) or a set of potential sequences (type scenario, ↑use case).
Classe	**Class**	A representation of a set of ↑objects of the same kind by describing the structure of the objects, the ways they can be manipulated and how they behave.
Cliente	**Customer**	A person or organization who receives a ↑system, a ↑product or a ↑service. Also see ↑stakeholder.
Comitê de controle de mudanças	**Change control board**	A committee of ↑customer and ↑supplier representatives that decides on ↑change requests.
		Abbreviation: CCB
		Note: The Change control board should not be confused with a *change advisory board*, which is a committee that evaluates change requests for a ↑system in operation and typically has no decision power.
Comitê diretivo	Steering committee	A committee that supervises a project.

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Termo (brasileiro)	Term (English)	Definition (English)
Completude (do requisito)	**Completeness** (of requirements)	1. For a single ↑requirement: The degree to which the specification of a requirement is self-contained. 2. For a ↑work product covering multiple requirements: The degree to which the work product contains all known requirements that are relevant in the scope of this work product.
Compliance, Observância	**Compliance**	The adherence of a ↑work product to ↑standards, conventions, regulations, laws, or similar prescriptions.
Componente	**Component**	1. In general: A delimitable part of a ↑system. 2. In software architecture: An encapsulated set of coherent ↑objects or ↑classes that jointly achieve some purpose. 3. In testing: A part of a ↑system that can be tested in isolation. **Note:** When viewed in isolation, a component is a ↑system by itself.
Comportamento	**Behavior**	The way in which a ↑system reacts to stimuli, changes its state and produces observable results. **Note:** Stimuli may be events or changes of conditions. Their origin may be external or system-internal.
Composição (no contexto técnico)	Composition (in a technical context)	1. An ↑item that is composed of a set of items; forming a whole-part relationship. 2. The act of composing a whole from a set of parts.
Compreensibilidade	**Understandability**	The degree to which an ↑item is comprehensible to its intended users. **Note:** Typical items are: a ↑system, a ↑work product, or a part thereof.

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Termo (brasileiro)	Term (English)	Definition (English)
Confiabilidade	**Reliability**	The degree to which a ↑system performs specified functions under specified conditions for a specified period of time. **Note:** Reliability may be stated as a ↑quality requirement.
Configuração	**Configuration**	A consistent set of logically coherent ↑items. The items are individually identifiable ↑work products or parts of work products in at most one ↑version per item.
Configuração de requisitos	Requirements configuration	→ Configuration
Conflito de requisitos	**Requirements conflict**	1. A situation where two or more ↑requirements cannot be satisfied together. 2. A situation where two or more ↑stakeholders disagree about certain ↑requirements. **Note:** Requirements conflicts have to be solved by ↑requirements negotiation.
Consistência (dos requisitos)	**Consistency** (of requirements)	The degree to which a set of ↑requirements is free of contradicting statements.
Contexto	**Context**	1. In general: The network of thoughts and meanings needed for understanding phenomena or utterances. 2. Especially in RE: The part of a ↑system's environment being relevant for understanding the system and its ↑requirements. **Note:** Context in the second meaning is also called the ↑system context.
Contexto de sistema	System context	The part of a ↑system's environment that is relevant for the definition as well as the understanding of the ↑requirements of a ↑system to be developed.

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Termo (brasileiro)	Term (English)	Definition (English)
Controle de fluxo	Control flow	The order in which a set of actions is executed.
Correção	Correctness	The degree to which the information contained in a ↑work product is provably true. **Note:** In RE, correctness is sometimes used as a synonym for ↑adequacy, particularly when validating a ↑requirement rigorously against formally stated properties in the ↑context of a ↑system.
Critério de aceitação, critério de aceite	**Acceptance criteria**	In agile: Criteria that the implementation of a ↑user story must satisfy in order to be accepted by the ↑stakeholders. **Note:** Acceptance criteria may also be written for ↑backlog items other than user stories.
Defeito	**Defect**	An imperfection or deficiency in a ↑work product that impairs its intended use. **Synonyms:** bug, fault

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Termo (brasileiro)	Term (English)	Definition (English)
Design, Projeto	**Design**	1. A plan or drawing produced to show how something will look, function or be structured before it is made. 2. The activity of creating a design. 3. A decorative pattern [This meaning does not apply in the software engineering ↑domain]. **Notes:** 1. In software product development, we distinguish between *creative design* which shapes the look and feel of the product, i.e., its perceivable form, function and quality, and *technical design* (also called software design) which determines the inner structure of the product, in particular the software architecture. 2. The creative design of products is also called *product design*. 3. The creative design of digital solutions is called *digital design*.
Diagrama de atividade	**Activity diagram**	A diagram type in ↑UML which models the flow of actions in some part of a ↑system, including ↑data flows and areas of responsibility where necessary.
Diagrama de características	Feature diagram	A diagrammatic representation of a ↑feature model.
Diagrama de caso de uso	**Use case diagram**	A diagram type in ↑UML that models the ↑actors and the ↑use cases of a ↑system. **Note:** The boundary between the actors and the use cases constitutes the ↑system boundary.
Diagrama de classes	**Class diagram**	A diagrammatic representation of a ↑class model.

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Termo (brasileiro)	Term (English)	Definition (English)
Diagrama de contexto	**Context diagram**	1. A diagrammatic representation of a ↑context model. 2. In ↑Structured Analysis, the context diagram is the root of the ↑dataflow diagram hierarchy.
Diagrama de fluxo de dados	Data flow diagram	A diagrammatic representation of a ↑data flow model. **Abbreviation:** DFD
Diagrama de máquina de estados	**State machine diagram**	A diagrammatic representation of a ↑state machine.
Diagrama de objeto	Object diagram	A diagrammatic representation of an ↑object model.
Diagrama de sequência	**Sequence diagram**	A diagram type in ↑UML which models the interactions between a selected set of ↑objects and/or ↑actors in the sequential order in which those interactions occur.
Diagrama de transição de estados	State-transition diagram	→ State machine diagram
Diagrama entidade-relacionamento	Entity-relationship diagram	A diagrammatic representation of an ↑entity-relationship model. **Abbreviation:** ERD
Documento de requisitos	**Requirements document**	A document consisting of a ↑requirements specification. **Note:** Requirements document is frequently used as a synonym for requirements specification.
Domínio	**Domain**	A range of relevant things (for some given matter); for example, an ↑application domain.

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Termo (brasileiro)	Term (English)	Definition (English)
Domínio da aplicação	**Application domain**	Those parts of the real world that are relevant for determining the ↑context of a ↑system.
Dono do Produto, product owner	Product owner	A person responsible for a ↑product in terms of ↑functionality, value and ↑risk.
		Note: The product owner maintains and prioritizes the ↑product backlog, makes sure that the ↑stakeholders' ↑requirements as well as market needs are elicited and adequately documented in the ↑product backlog and represents the stakeholders when communicating with the development team.
Efetividade	**Effectiveness**	The degree to which an ↑item produces the intended results.
		Note: In RE, effectiveness frequently is the degree to which a ↑system enables its ↑users to achieve their ↑goals.
Eficiência	**Efficiency**	The degree to which resources are expended in relation to results achieved.
Elaboração (dos requisitos)	**Elaboration** (of requirements)	An umbrella term for requirements ↑elicitation, ↑negotiation and ↑validation.
Elementos comuns	Commonality	The parts of a ↑product line that are shared by all its members.
Elicitação (dos requisitos)	**Elicitation** (of requirements)	→ Requirements elicitation
Elicitação de Requisitos	**Requirements elicitation**	The process of seeking, capturing and consolidating ↑requirements from available ↑sources, potentially including the re-construction or creation of requirements.

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Termo (brasileiro)	Term (English)	Definition (English)
Engenharia de Requisitos	**Requirements Engineering**	The systematic and disciplined approach to the ↑specification and management of ↑requirements with the goal of understanding the ↑stakeholders' desires and needs and minimizing the risk of delivering a ↑system that does not meet these desires and needs. **Abbreviation:** RE
Engenheiro de Requisitos	**Requirements Engineer**	A person who – in collaboration with ↑stakeholders – elicits, documents, validates, and manages ↑requirements. **Note:** In most cases, requirements engineer is a ↑role and not a job title.
Entidade	Entity	1. In general: Anything which is perceivable or conceivable (→ item). 2. In entity-relationship-modeling: an individual ↑item which has an identity and does not depend on another item (→ object).
Épico	Epic	In agile development: An abstract description of a ↑stakeholder need which is larger than what can be implemented in a single ↑iteration.
Erro	**Error**	1. A human action that produces an incorrect result. 2. A discrepancy between an observed ↑behavior or result and the specified behavior or result. **Note:** In practice, both meanings are used. Where needed, the meaning of error can be disambiguated by using human error and observed error or observed fault, respectively.
Escopo (do sistema de desenvolvimento)	**Scope** (of a system development)	The range of things that can be shaped and designed when developing a ↑system.

Termo (brasileiro)	Term (English)	Definition (English)
Especificação	**Specification**	1. As a work product: A systematically represented description of the properties of an ↑item (a ↑system, a device, etc.) that satisfies given criteria. 2. As a process: the process of specifying (↑eliciting, documenting and ↑validating) the properties of an ↑item. **Note:** A specification may be about required properties (↑requirements specification) or implemented properties (e.g., a technical product specification).
Especificação de requisitos	**Requirements specification**	A systematically represented collection of ↑requirements, typically for a ↑system, that satisfies given criteria. **Notes:** 1. In some situations we distinguish between a ↑*customer* requirements specification (typically written by the ↑customer) and a ↑*system* requirements specification or ↑*software* requirements specification (written by the supplier). 2. Requirements specification may also denote the ↑*process* of specifying (↑eliciting, documenting and ↑validating) requirements.
Especificação de requisitos de sistema	**System requirements specification**	A ↑requirements specification pertaining to a ↑system. **Note:** A system requirements specification is frequently considered to be a synonym for ↑requirements specification. **Abbreviation:** SyRS
Especificação de requisitos de software	**Software requirements specification**	A ↑requirements specification pertaining to a software ↑system. **Abbreviation:** SRS

Termo (brasileiro)	Term (English)	Definition (English)
Especificação de requisitos do cliente	**Customer requirements specification**	A coarse description of the required capabilities of a ↑system from the ↑customer's perspective.
		Note: A customer requirements specification is usually supplied by the ↑customer.
Especificação por exemplo	Specification by example	A ↑technique that specifies test cases and ↑requirements for a ↑system by providing examples of how the system should behave.
Falha	**Fault**	→ Defect
Ferramenta (em engenharia de software)	**Tool** (in software engineering)	A (software) ↑system that helps develop, operate and maintain systems.
		Note: In RE, tools support ↑requirements management as well as modeling, documenting, and validating ↑requirements.
Fluxo de dados	Data flow	A sequence of data items flowing from a producer to a consumer.
Fonte (do requisito)	Source (of a requirement)	→ Requirements source
Fonte de requisitos	**Requirements source**	The source from which a ↑requirement has been derived.
		Note: Typical sources are ↑stakeholders, documents, existing ↑systems and observations.
Fornecedor	Supplier	A person or organization who delivers a ↑product or ↑service to a ↑customer.
Funcionalidade	**Functionality**	The capabilities of a ↑system as stated by its ↑functional requirements.
Gerenciamento de mudanças	**Change management**	A controlled way to effect or deny a requested change of a ↑work product.

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Termo (brasileiro)	Term (English)	Definition (English)
Gerenciamento de requisitos	**Requirements management**	The process of managing existing ↑requirements and requirements-related ↑work products, including the storing, changing and tracing of requirements (↑traceability).
Glossário	**Glossary**	A collection of definitions of terms that are relevant in some ↑domain. **Note:** Frequently, a glossary also contains cross-references, ↑synonyms, ↑homonyms, acronyms, and abbreviations.
Gráfico de Burndown	Burndown chart	A diagram plotting the work items that remain to accomplish on a time scale.
Grau de conformidade	**Conformity**	The degree to which a ↑work product conforms to regulations given in some ↑standard.
História (no contexto da ER)	Story (in an RE context)	→ User story
História de Usuário	**User story**	A description of a need from a ↑user's perspective together with the expected benefit when this need is satisfied. **Notes:** 1. User stories are typically written in ↑natural language using a ↑phrase template and are accompanied by ↑acceptance criteria. 2. In ↑agile development, user stories are the main means for communicating needs between a ↑product owner and the development team.
Homônimo	Homonym	A term looking identical to another term but having a different meaning. **Note:** For example, bill as a bank note and bill as a list (of materials) are homonyms.

Termo (brasileiro)	Term (English)	Definition (English)
Incremento (no desenvolvimento de software)	**Increment** (in software development)	An addition to a ↑system under development that extends, enhances or refactors (↑refactoring) the existing parts of the system. **Note:** In ↑agile development, every ↑iteration produces an increment.
Inspeção	**Inspection**	A formal ↑review of a ↑work product by a group of experts according to given criteria, following a defined procedure.
Item	Item	Anything which is perceivable or conceivable. **Synonyms:** entity, object
Iteração	**Iteration**	1. In general: The repetition of something, for example, a procedure, a process or a piece of program code. 2. In agile development: A ↑timeboxed unit of work in which a development team implements an ↑increment to the ↑system under development. **Note:** In agile development, iteration and ↑sprint are frequently used as synonyms.
Liberação, release	**Release**	A ↑configuration that has been released for installation and use by ↑customers.

Termo (brasileiro)	Term (English)	Definition (English)
Limite de sistema	**System boundary**	The boundary between a ↑system and its surrounding ↑context. **Notes:** 1. The system boundary delimits the system as it shall be after its implementation and deployment. 2. At the system boundary, the external interfaces between the ↑system and its ↑context have to be defined. 3. The system boundary frequently coincides with the ↑scope of a ↑system (which denotes the range of things that can be shaped and designed). However, this is not always the case: there may be components within the system boundary that have to be re-used as they are (i.e., cannot be shaped nor designed), while in the system context there may be things that can be re-designed when the system is developed (which means that they are in scope).
Limite do contexto	**Context boundary**	The boundary between the ↑context of a ↑system and those parts of the ↑application domain that are irrelevant for the ↑system and its ↑requirements. **Note:** The context boundary separates the relevant part of the environment of a system to be developed from the irrelevant part, i.e., the part that does not influence the system to be developed and, thus, does not have to be considered during Requirements Engineering.
Linguagem	Language	A structured set of signs for expressing and communicating information. **Note:** Signs are any elements that are used for communication: spoken or written words or expressions, symbols, gestures, sounds, etc.
Linguagem de especificação	Specification language	An artificial ↑language that has been created for expressing ↑specifications.

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Termo (brasileiro)	Term (English)	Definition (English)
Linguagem de modelagem	**Modeling language**	A ↑language for expressing ↑models of a certain kind. May be textual, graphic, symbolic or some combination thereof.
Linguagem natural	**Natural language**	A ↑language that people use for speaking and writing in everyday life.
		Note: This is in contrast to *artificial languages* that people have deliberately created for specific purposes such as programming or specifying.
Linha de produto	Product line	A jointly managed set of systems (provided as products or services) that share a common core and have a configurable set of ↑variants for satisfying needs of particular ↑customers or market segments.
		Note: The points in a product line where there is more than one ↑variant to select from are called ↑variation points.
		Synonym: Product family
Manutenibilidade	Maintainability	The ease with which a ↑system can be modified by the intended maintainers.
		Note: Maintainability may be stated as a ↑quality requirement.
Maquete (de um sistema digital)	**Mock-up** (of a digital system)	A medium-fidelity ↑prototype that demonstrates characteristics of a user interface without implementing any real ↑functionality.
		Note: In RE, a mock-up primarily serves for specifying and validating user interfaces.
Máquina de estados	**State machine**	A ↑model describing the behavior of a ↑system by a finite set of *states* and state *transitions*. State transitions are triggered by *events* and can in turn trigger *actions* and new events.

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Termo (brasileiro)	Term (English)	Definition (English)
Meta, objetivo	**Goal**	A desired state of affairs (that a ↑stakeholder wants to achieve). **Note:** Goals describe intentions of stakeholders. They may conflict with one another.
Método	Method	The systematic application of a ↑technique (or a set of techniques) to achieve an objective or create a ↑work product.
Metodologia	Methodology	1. The systematic study of ↑methods in a particular field, in particular, how to select, apply or evaluate methods systematically in a given situation. 2. A set of ↑methods being applied in some combination.
Modelo	**Model**	An abstract representation of an existing part of reality or a part of reality to be created. **Notes:** 1. The notion of reality includes any conceivable set of elements, phenomena, or concepts, including other models. 2. Models are always built for *specific purposes* in a *specific context*. 3. With respect to a model, the modeled part of reality is called the *original*. 4. In RE, ↑requirements can be specified with models.
Modelo de atividade	**Activity model**	A ↑model of the flow of actions in some part of a ↑system.
Modelo de características	Feature model	A ↑model describing the variable features of a ↑product line, including their relationships and dependencies.
Modelo de caso de uso	Use case model	A ↑model consisting of a set of ↑use cases, typically together with a ↑use case diagram.
Modelo de classes	**Class model**	A model consisting of a set of ↑classes and relationships between them.

Termo (brasileiro)	Term (English)	Definition (English)
Modelo de comportamento	**Behavior model**	A ↑model describing the ↑behavior of a ↑system, e.g., by a ↑state machine.
Modelo de contexto	**Context model**	A ↑model describing a ↑system in its ↑context.
Modelo de documento	Document template	A template providing a predefined skeleton structure for a document. (→ requirements template)
		Note: In RE, document templates can be used to structure ↑requirements documents.
Modelo de domínio	**Domain model**	A ↑model describing phenomena in an ↑application domain.
		Notes:
		1. In RE, domain models are created with the intention to understand the ↑application domain in which a planned ↑system will be situated.
		2. *Static domain models* specify (business) objects and their relationships in a ↑domain of interest.
		3. Domain story models specify visual stories about how actors interact with devices, artifacts, and other items in a ↑domain.
Modelo de entidade-relacionamento	Entity-relationship model	A ↑model of data that are relevant for a ↑system or of the data of an ↑application domain, consisting of a set of entity types that are each characterized by ↑attributes and linked by relationships.
		Abbreviation: ER Model

Termo (brasileiro)	Term (English)	Definition (English)
Modelo de fluxo de dados	Data flow model	A model that describes the ↑functionality of a ↑system by ↑activities, data stores and ↑data flows. **Note:** Incoming data flows trigger activities which then consume the received data, transform them, read/write persistent data held in data stores and then produce new data flows which may be intermediate results that trigger other activities or final results that leave the system.
Modelo de formulário	Form template	A template providing a form with predefined fields to be filled-in. (→ requirements template) **Note:** In RE, form templates can be used to specify ↑use cases or ↑quality requirements.
Modelo de meta, modelo de objetivo	**Goal model**	A ↑model representing a set ↑goals, sub-goals and the relationships between them. **Note:** Goal models may also include tasks and resources needed to achieve a goal, actors who want to achieve a goal, and obstacles that impede the achievement of a goal.
Modelo de objeto	**Object model**	A ↑model describing a set of ↑objects and relationships between them.
Modelo de processo	**Process model**	A ↑model describing a ↑process or a set of related processes.
Modelo de requisitos	Requirements model	A ↑model that has been created with the purpose of specifying ↑requirements.
Modificabilidade	**Modifiability**	The degree to which a ↑work product or ↑system can be modified without degrading its ↑quality.

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Termo (brasileiro)	Term (English)	Definition (English)
Multiplicidade	Multiplicity	→ Cardinality
Não ambiguidade (dos requisitos)	**Unambiguity** (of requirements)	The degree to which a ↑requirement is expressed such that it cannot be understood differently by different people.
Necessidade (do requisito)	**Necessity** (of a requirement)	The degree to which an individual ↑requirement is a necessary part of the ↑requirements specification of a ↑system.
Negociação de requisitos	**Requirements negotiation**	A ↑process where ↑stakeholders are working toward reaching an agreement to resolve ↑requirements conflicts.
Norma	**Standard**	A formal, possibly mandatory set of regulations for how to interpret, develop, manufacture, or execute something. **Note:** In RE, there are RE-relevant standards issued by ISO/IEC and IEEE.
Objeto	**Object**	1. In general: Anything which is perceivable or conceivable (→ item). 2. In software engineering: an individual ↑item which has an identity, is characterized by the values of its ↑attributes and does not depend on another item (→ entity).
Padrão de processo	Process pattern	An abstract, reusable ↑model of a ↑process which can be used to configure and instantiate a concrete process for a given situation and ↑context.
Papel, função	**Role**	1. A part played by a person in a given context. 2. In ↑UML ↑class models: The parts played by the linked ↑objects in an ↑association.
Persona	**Persona**	A fictitious character representing a group of ↑users with similar needs, values and habits who are expected to use a ↑system in a similar way.

Termo (brasileiro)	Term (English)	Definition (English)
Perspectiva	Viewpoint	A certain perspective on the ↑requirements of a ↑system. **Note:** Typical viewpoints are perspectives that a ↑stakeholder or stakeholder group has (for example, an end user's perspective or an operator's perspective). However, there can also be topical viewpoints such as a security viewpoint.
Ponto variante	Variation point	A point in a ↑product line where an element of the product line (typically a variable or a ↑feature) can be chosen from a set of ↑variants.
Portabilidade	Portability	The ease with which a ↑system can be transferred to another platform while preserving its characteristics.
Prática	Practice	A proven way of how to carry out certain types of ↑tasks or ↑activities.
Prioridade	**Priority**	The level of importance assigned to an ↑item, e.g., a ↑requirement or a ↑defect, according to certain criteria.
Priorização	Prioritization	The process of assigning priorities to a set of ↑items.
Problema	Problem	A difficulty, open question or undesirable condition that needs investigation, consideration, or solution.
Processo	**Process**	A set of interrelated ↑activities performed in a given order to process information or materials. **Note:** The notion of process includes *business processes* (e.g., how to commission and send ordered goods to ↑customers), *information processes* (e.g., how to deliver records from a database that match a given query), and *technical processes* (e.g., cruise control in a car).

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Termo (brasileiro)	Term (English)	Definition (English)
Produto (no contexto de software)	**Product** (in the context of software)	A software-based ↑system or a ↑service provided by a system which is developed and marketed by a ↑supplier and used by ↑customers.
Produto de trabalho, Produto de artefato	**Work product**	A recorded, intermediate or final result generated in a work ↑process. **Synonym:** ↑Artifact
Proteção	**Safety**	The capability of a ↑system to achieve an acceptable level of probability that the system, under defined conditions, will not reach a state in which human life, health, property, or the environment is endangered. **Note:** Safety ↑requirements may be stated as ↑quality requirements or in terms of ↑functional requirements.
Prototipação	Prototyping	A ↑process that involves the creation and evaluation of ↑prototypes.

Protótipo	**Prototype**	1. In manufacturing: A piece which is built prior to the start of mass production.
		2. In software and systems engineering: A preliminary, partial realization of certain characteristics of a ↑system.
		3. In design: A preliminary, partial instance of a design solution.
		
		Notes:
		1. In RE, prototypes are used as a means for requirements ↑elicitation (see ↑specification by example) and ↑validation.
		2. Prototypes in RE can be classified
		  (a) with respect to their degree of fidelity into ↑native prototypes, ↑mock-ups and ↑wireframes;
		  (b) with respect to their purpose into ↑exploratory prototypes and ↑evolutionary prototypes.

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Termo (brasileiro)	Term (English)	Definition (English)
Protótipo de alta fidelidade	**Native prototype**	A high-fidelity ↑prototype that implements critical parts of a ↑system to an extent that ↑stakeholders can use the prototype to see whether the prototyped part of the system will work and behave as expected.
Protótipo evolutivo	**Evolutionary prototype**	A pilot system forming the core of a ↑system to be developed.
Protótipo exploratório	**Exploratory prototype**	A throwaway ↑prototype used to create shared understanding, clarify ↑requirements or validate requirements.
Qualidade	**Quality**	1. In general: The degree to which a set of inherent characteristics of an item fulfills ↑requirements. 2. In systems and software engineering: The degree to which a ↑system satisfies stated and implied needs of its ↑stakeholders. **Note:** Quality in this definition means fitness for intended use, as stated in the ↑requirements. This is in contrast to the colloquial notion of quality which is typically connoted with goodness or excellence.
Rastreabilidade	**Traceability**	1. In general: The ability to establish explicit relationships between related ↑work products or ↑items within work products. 2. In RE: The ability to trace a ↑requirement (a) back to its origins, (b) forward to its implementation in design and code and its associated tests, (c) to requirements it depends on (and vice-versa).
Redundância	**Redundancy**	Multiple occurrence of the same information or resource.
Refatorar	Refactoring	The improvement of the internal ↑quality of source code, particularly the structure of the code, without changing its observable behavior.

Termo (brasileiro)	Term (English)	Definition (English)
Requisito	**Requirement**	1. A need perceived by a ↑stakeholder. 2. A capability or property that a ↑system shall have. 3. A documented representation of a need, capability or property.
Requisito de desempenho, requisito de performance	**Performance requirement**	A ↑requirement describing a performance characteristic (timing, speed, volume, capacity, throughput, ...). **Note:** In this glossary, performance requirements are regarded as a sub-category of ↑quality requirements. However, they can also be considered as a ↑kind of requirements of its own.
Requisito de domínio	**Domain requirement**	A ↑domain property in the ↑context of a ↑system that is required to hold.
Requisito de negócio	**Business requirement**	A ↑requirement stating a business ↑goal, objective or need of an organization. **Note:** Business requirements typically state those business goals, objectives and needs that shall be achieved by employing a ↑system or a collection of systems.
Requisito de qualidade	**Quality requirement**	A ↑requirement that pertains to a quality concern that is not covered by ↑functional requirements.
Requisito de sistema	**System requirement**	A ↑requirement pertaining to a ↑system.
Requisito de stakeholder, requisito da parte interessada	**Stakeholder requirement**	A ↑requirement expressing a ↑stakeholder desire or need. **Note:** Stakeholder requirements are typically written by stakeholders and express their desires and needs from their perspective.

Termo (brasileiro)	Term (English)	Definition (English)
Requisito de usuário	**User requirement**	A ↑requirement expressing a ↑user need.
		Note: User requirements are typically about what a system should do for certain users and how they can interact with the system. User requirements are a subset of ↑stakeholder requirements.
Requisito funcional	**Functional requirement**	A ↑requirement concerning a result or ↑behavior that shall be provided by a function of a ↑system.
Requisito não-funcional	**Non-functional requirement**	A ↑quality requirement or a ↑constraint.
		Note: ↑Performance requirements may be regarded as another category of non-functional requirements. In this glossary, performance requirements are considered to be a sub-category of ↑quality requirements.
Restrição (na ER)	**Constraint** (in RE)	A ↑requirement that limits the solution space beyond what is necessary for meeting the given ↑functional requirements and ↑quality requirements.
Revisão	**Review**	An evaluation of a ↑work product by an individual or a group in order to find problems or suggest improvements.
		Note: Evaluation may be performed with respect to both contents and conformance.
Risco	**Risk**	A possible event that threatens the success of an endeavor.
		Note: A risk is typically assessed in terms of its probability and potential damage.
Scrum	Scrum	A popular ↑process framework for ↑agile development of a ↑system.

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Termo (brasileiro)	Term (English)	Definition (English)
Segurança	**Security**	The degree to which a ↑system protects its data and resources against unauthorized access or use and secures unobstructed access and use for its legitimate ↑users. **Note:** Security requirements may be stated as ↑quality requirements or in terms of ↑functional requirements.
Semântica	**Semantics**	The meaning of a sign or a set of signs in a ↑language.
Semi-formal	Semi-formal	Something which is formal to some extent, but not completely. **Note:** A ↑work product is called semi-formal if it contains formal parts, but isn't formalized totally. Typically, a semi-formal work product has a defined ↑syntax, while the ↑semantics is partially defined only.
Serviço	**Service**	The provision of some ↑functionality to a human or a ↑system by a provider (a system, organization, group or individual) that delivers value to the receiver. **Note:** In systems engineering, software engineering and Requirements Engineering, services are typically provided by a ↑system for a ↑user or another system.
Sinônimo	**Synonym**	A word having the same meaning as another word.
Sintaxe	**Syntax**	The rules for constructing structured signs in a ↑language.

Termo (brasileiro)	Term (English)	Definition (English)
Sistema	**System**	1. In general: A principle for ordering and structuring. 2. In engineering: A coherent, delimitable set of elements that – by coordinated action – achieve some purpose. **Notes:** 1. A system may comprise other systems or ↑components as sub-systems. 2. The purposes achieved by a system may be delivered by • deploying the system at the place(s) where it is used, • selling/providing the system as a ↑product to its ↑users, • having providers who offer the system's capabilities as ↑services to users. 3. Systems containing both software and physical ↑components are called *cyber-physical systems*. 4. Systems spanning software, hardware, people and organizational aspects are called *socio-technical systems*. **Important:** In all definitions referring to system in this glossary, system is an umbrella term which includes • ↑*Products* provided to ↑customers, • ↑*Services* made available to ↑customers, • Other work products such as *devices*, *procedures* or *tools* that help people or organizations achieve some goal, • System ↑*components* or ↑*compositions* of systems.
Solicitação de mudança	**Change request**	In RE: A well-argued request for changing one or more ↑baselined ↑requirements.
Spike	Spike	In agile development: A task aimed at gaining insight or gathering information, rather than at producing a ↑product ↑increment.
Sprint	**Sprint**	An ↑iteration in ↑agile development, particularly when using ↑Scrum.

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Termo (brasileiro)	Term (English)	Definition (English)
Stakeholder, parte interessada	**Stakeholder**	A person or organization who influences a ↑system's ↑requirements or who is impacted by that system.
		Note: Influence can also be indirect. For example, some stakeholders may have to follow instructions issued by their managers or organizations.
Statechart, mapa de estados	**Statechart**	A ↑state machine having states that are hierarchically and/or orthogonally decomposed.
Story map, mapa de histórias	Story map	A two-dimensional arrangement of ↑user stories.
		Note: A story map helps understand the ↑functionality of a ↑system, identify gaps and plan releases.
Storyboard	Storyboard	A series of sketches or pictures that visualize the execution of a ↑scenario.
Tabela de decisão	Decision table	A tabular representation of a complex decision, specifying which actions to perform for the possible combinations of condition values.
Tarefa	Task	A coherent chunk of work to be done.
Técnica	Technique	A documented set of coherent actions for accomplishing a ↑task or achieving an objective.
Tema	Theme	In agile development: A collection of related ↑user stories.

Termo (brasileiro)	Term (English)	Definition (English)
Template de requisitos	**Requirements template**	A template for specifying ↑requirements. **Note:** In RE, several forms of templates are used. ↑*Phrase templates* are used for specifying individual ↑requirements or ↑user stories. ↑*Form templates* can be used to specify ↑use cases or ↑quality requirements. ↑*Document templates* provide a predefined structure for ↑requirements documents.
Template de sentença	Phrase template	A template for the syntactic structure of a phrase that expresses an individual ↑requirement or a ↑user story in ↑natural language. (→ requirements template)
Teste de aceitação, teste de aceite	Acceptance test	A test that assesses whether a ↑system satisfies its ↑requirements. **Note:** Typically used by ↑customers to determine whether or not to accept a system.
Timebox, prazo delimitado	Timebox	A fixed, non-extendable amount of time for completing a set of ↑tasks.
Tipo de requisito	**Kind of requirement**	A classification of requirements according to their kind into ↑*system* requirements (consisting of ↑*functional* requirements, ↑*quality* requirements and ↑*constraints*), *project* requirements, and *process* requirements. **Notes:** 1. RE is primarily concerned with system requirements. 2. Quality requirements and constraints are also called ↑*non-functional* requirements.
Tolerância a falhas	**Fault tolerance**	The capability of a ↑system to operate as intended despite the presence of (hardware or software) ↑faults. **Note:** Fault tolerance may be stated as a ↑quality requirement.

Termo (brasileiro)	Term (English)	Definition (English)
UML	**UML**	Abbreviation for Unified Modeling Language, a standardized language for modeling problems or solutions.
Usabilidade	**Usability**	The degree to which a ↑system can be used by specified ↑users to achieve specified ↑goals in a specified context of use.
		Note: Usability particularly includes the capability of a ↑system to be understood, learned, used, and liked by its intended ↑users.
Usuário	**User**	A person who uses the ↑functionality provided by a ↑system.
		Note: Users (also called end users) always are ↑stakeholders of a ↑system.
Usuário final	End user	→ User
Validação	**Validation**	The ↑process of confirming that an ↑item (a ↑system, a ↑work product or a part thereof) matches its ↑stakeholders' needs.
		Note: In RE, validation is the process of confirming that the documented ↑requirements match their ↑stakeholders' needs; in other words: whether the right requirements have been specified.
Variabilidade	Variability	1. The degree to which a ↑system can be changed or customized. 2. In product lines: The ↑features that can differ among the members of the ↑product line.
Variante	Variant	One of the possible forms that an ↑item (e.g., a ↑requirement) may have.

Termo (brasileiro)	Term (English)	Definition (English)
Verificabilidade (dos requisitos)	**Verifiability** (of requirements)	The degree to which the fulfillment of a ↑requirement by an implemented ↑system can be verified. **Note:** Such ↑verification can be performed, for example, by defining ↑acceptance test cases, measurements or ↑inspection procedures.
Verificação	Verification	The process of confirming that an ↑item (a system, a work product, or a part thereof) fulfills its ↑specification. **Note:** Requirements verification is the process of confirming that the ↑requirements have been documented properly and satisfy the ↑quality criteria for requirements; in other words, whether the requirements have been specified right.
Versão	**Version**	An occurrence of an ↑item which exists in multiple, time-ordered occurrences where each occurrence has been created by modifying one of its previous occurrences.
Viabilidade (do requisito)	Feasibility (of a requirement)	The degree to which a ↑requirement for a ↑system can be implemented under existing ↑constraints.
View, visualização	**View**	An excerpt from a ↑work product, containing only those parts one is currently interested in. **Note:** A view can abstract or aggregate parts of the work product.
Visão (para o sistema ou produto)	**Vision** (for a system or product)	A conceptual imagination of a future ↑system or ↑product, describing its key characteristics and how it will create value for its ↑users.

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Termo (brasileiro)	Term (English)	Definition (English)
Walkthrough	**Walkthrough**	A ↑review in which the author of a ↑work product leads the reviewers systematically through the work product and the reviewers ask questions and make comments about possible issues.
Wireframe	**Wireframe**	A low-fidelity ↑prototype built with simple materials that primarily serves for discussing and validating requirements, design ideas or user interface concepts. **Note:** When prototyping digital systems, wireframes are typically built with paper. Such prototypes are also called *paper prototypes*.

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English - Brasileiro dictionary

Term (English)	Termo (Brasileiro)
Acceptance	Aceitação, aceite
Acceptance criteria	**Critério de aceitação**, critério de aceite
Acceptance test	Teste de aceitação, teste de aceite
Activity	Atividade
Activity diagram	**Diagrama de atividade**
Activity model	**Modelo de atividade**
Actor	**Ator**
Adequacy (of a requirement)	**Adequação** (do requisito)
Agile	**Ágil**
Ambiguity	Ambiguidade
Application domain	**Domínio da aplicação**
Artifact	Artefato
Association	Associação
Attribute	**Atributo**

Term (English)	Termo (Brasileiro)
Backlog	Backlog
Baseline	**Baseline, linha de base**
Behavior model	**Modelo de comportamento**
Behavior	**Comportamento**
Branch	Branch, ramificação
	Gráfico de Burndown
Burndown chart	**Requisito de negócio**
Business requirement	Cardinalidade
Cardinality	**Comitê de controle de mudanças**
Change control board	**Gerenciamento de mudanças**
Change management	**Solicitação de mudança**
Change request	**Diagrama de classes**
Class diagram	**Modelo de classes**
Class model	**Classe**
Class	Elementos comuns
Commonality	**Completude** (do requisito)
Completeness (of requirements)	**Compliance, Observância**

Term (English)	Termo (Brasileiro)
Compliance	**Componente**
Component	Composição (no contexto técnico)
Composition (in a technical context)	**Configuração**
Configuration	**Grau de conformidade**
Conformity	**Consistência** (dos requisitos)
Consistency (of requirements)	**Restrição** (na ER)
Constraint (in RE)	**Limite do contexto**
Context boundary	**Diagrama de contexto**
Context diagram	**Modelo de contexto**
Context model	**Contexto**
Context	Controle de fluxo
Control flow	Correção
Correctness	**Especificação de requisitos do cliente**
Customer requirements specification	**Cliente**
Customer	Fluxo de dados
Data flow	Diagrama de fluxo de dados
Data flow diagram	Modelo de fluxo de dados

Term (English)	Termo (Brasileiro)
Data flow model	Tabela de decisão
Decision table	**Defeito**
Defect	**Design, Projeto**
Design	Modelo de documento
Document template	**Modelo de domínio**
Domain model	**Requisito de domínio**
Domain requirement	**Domínio**
Domain	**Efetividade**
Effectiveness	**Eficiência**
Efficiency	**Elaboração** (dos requisitos)
Elaboration (of requirements)	**Elicitação** (dos requisitos)
Elicitation (of requirements)	Usuário final
End user	Entidade
Entity	Diagrama entidade-relacionamento
Entity-relationship diagram	Modelo de entidade-relacionamento
Entity-relationship model	Épico
Epic	**Erro**

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Term (English)	Termo (Brasileiro)
Error	**Protótipo evolutivo**
Evolutionary prototype	**Protótipo exploratório**
Exploratory prototype	**Tolerância a falhas**
Fault tolerance	**Falha**
Fault	Viabilidade (do requisito)
Feasibility (of a requirement)	Diagrama de características
Feature diagram	Modelo de características
Feature model	**Característica**, recurso, funcionalidade
Feature	Modelo de formulário
Form template	**Requisito funcional**
Functional requirement	**Funcionalidade**
Functionality	**Glossário**
Glossary	**Modelo de meta**, modelo de objetivo
Goal model	**Meta**, objetivo
Goal	Homônimo
Homonym	**Incremento** (no desenvolvimento de software)
Increment (in software development)	**Inspeção**

Term (English)	Termo (Brasileiro)
Inspection	Item
Item	**Iteração**
Iteration	**Tipo de requisito**
Kind of requirement	Linguagem
Language	Manutenibilidade
Maintainability	Método
Method	Metodologia
Methodology	**Maquete** (de um sistema digital)
Mock-up (of a digital system)	**Modelo**
Model	**Linguagem de modelagem**
Modeling language	**Modificabilidade**
Modifiability	Multiplicidade
Multiplicity	**Protótipo de alta fidelidade**
Native prototype	**Linguagem natural**
Natural language	**Necessidade** (do requisito)
Necessity (of a requirement)	**Requisito não-funcional**
Non-functional requirement	Diagrama de objeto

Term (English)	Termo (Brasileiro)
Object diagram	**Modelo de objeto**
Object model	**Objeto**
Object	**Requisito de desempenho**, requisito de performance
Performance requirement	**Persona**
Persona	Template de sentença
Phrase template	Portabilidade
Portability	Prática
Practice	Priorização
Prioritization	**Prioridade**
Priority	Problema
Problem	**Modelo de processo**
Process model	Padrão de processo
Process pattern	**Processo**
Process	**Backlog do produto**
Product backlog	Linha de produto
Product line	Dono do Produto, product owner
Product owner	**Produto** (no contexto de software)

Term (English)	Termo (Brasileiro)
Product (in the context of software)	**Protótipo**
Prototype	Prototipação
Prototyping	**Requisito de qualidade**
Quality requirement	**Qualidade**
Quality	**Redundância**
Redundancy	Refatorar
Refactoring	**Liberação**, release
Release	**Confiabilidade**
Reliability	**Requisito**
Requirement	Análise de requisitos
Requirements analysis	Baseline de requisitos, lilnha de base de requisitos
Requirements baseline	Branch de requisitos, ramificação de requisitos
Requirements branching	Configuração de requisitos
Requirements configuration	**Conflito de requisitos**
Requirements conflict	**Documento de requisitos**
Requirements document	**Elicitação de Requisitos**
Requirements elicitation	**Engenheiro de Requisitos**

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Term (English)	Termo (Brasileiro)
Requirements Engineer	**Engenharia de Requisitos**
Requirements Engineering	**Gerenciamento de requisitos**
Requirements management	Modelo de requisitos
Requirements model	**Negociação de requisitos**
Requirements negotiation	**Fonte de requisitos**
Requirements source	**Especificação de requisitos**
Requirements specification	**Template de requisitos**
Requirements template	**Revisão**
Review	**Risco**
Risk	**Papel**, função
Role	**Proteção**
Safety	Cenário
Scenario	**Escopo** (do sistema de desenvolvimento)
Scope (of a system development)	Scrum
Scrum	**Segurança**
Security	**Semântica**
Semantics	Semi-formal

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Term (English)	Termo (Brasileiro)
Semi-formal	**Diagrama de sequência**
Sequence diagram	**Serviço**
Service	**Especificação de requisitos de software**
Software requirements specification	Fonte (do requisito)
Source (of a requirement)	Especificação por exemplo
Specification by example	Linguagem de especificação
Specification language	**Especificação**
Specification	Spike
Spike	Backlog da sprint
Sprint backlog	**Sprint**
Sprint	**Requisito de stakeholder**, requisito da parte interessada
Stakeholder requirement	**Stakeholder**, parte interessada
Stakeholder	**Norma**
Standard	**Diagrama de máquina de estados**
State machine diagram	**Máquina de estados**
State machine	**Statechart**, mapa de estados
Statechart	Diagrama de transição de estados

Term (English)	Termo (Brasileiro)
State-transition diagram	Comitê diretivo
Steering committee	História (no contexto da ER)
Story (in an RE context)	Story map, mapa de histórias
Story map	Storyboard
Storyboard	Análise estruturada
Structured Analysis	Fornecedor
Supplier	**Sinônimo**
Synonym	**Sintaxe**
Syntax	**Limite de sistema**
System boundary	Contexto de sistema
System context	**Requisito de sistema**
System requirement	**Especificação de requisitos de sistema**
System requirements specification	**Sistema**
System	Tarefa
Task	Técnica
Technique	Tema
Theme	Timebox, prazo delimitado

Term (English)	Termo (Brasileiro)
Timebox	**Ferramenta** (em engenharia de software)
Tool (in software engineering)	**Rastreabilidade**
Traceability	**UML**
UML	**Não ambiguidade** (dos requisitos)
Unambiguity (of requirements)	**Compreensibilidade**
Understandability	**Usabilidade**
Usability	**Diagrama de caso de uso**
Use case diagram	Modelo de caso de uso
Use case model	**Caso de uso**
Use case	**Requisito de usuário**
User requirement	**História de Usuário**
User story	**Usuário**
User	**Validação**
Validation	Variabilidade
Variability	Variante
Variant	Ponto variante
Variation point	**Verificabilidade** (dos requisitos)

Term (English)	Termo (Brasileiro)
Verifiability (of requirements)	Verificação
Verification	**Versão**
Version	**View**, visualização
View	Perspectiva
Viewpoint	**Visão** (para o sistema ou produto)
Vision (for a system or product)	**Walkthrough**
Walkthrough	**Wireframe**
Wireframe	**Produto de trabalho, Produto de artefato**
Work product	