

Certified Professional for Requirements Engineering

Glossary of Requirements Engineering Terminology - Polish

Standard Glossary for the CPRE Studies and Exams

Original English version by Martin Glinz







Martin Glinz: Glossary of Requirements Engineering Terminology - Version 2.2.0

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About the Author

Martin Glinz is a full professor emeritus at the University of Zurich (UZH). From 1993 until 2017, he was a professor of Informatics at UZH's Department of Informatics. From 2007–2016, he was the department head. His interests include requirements and software engineering — in particular modeling, validation, quality, and evolution.

He received a diploma degree in Mathematics in 1977 and a Dr. rer. nat. in Computer Science in 1983, both from RWTH Aachen University. Before joining the University of Zurich, he worked in industry for ten years, where he was active in software engineering research, development, training, and consulting. He retired in summer 2017, but he is still active in Requirements Engineering research, education, and service.

Martin Glinz has over 40 years of experience in Requirements Engineering, both academic and industrial. He is on editorial boards and program committees of major journals and conferences in software and requirements engineering and served as general chair, program chair, steering committee chair and organizer for the top international conferences in his field. He is a full member of the International Requirements Engineering Board (IREB), where he chairs the IREB Council. He received the ACM SIGSOFT Distinguished Service Award and the IEEE International Requirements Engineering Conference Lifetime Service Award in 2016 and the IEEE International Requirements Engineering Conference Most Influential Paper Award in 2017.



Preface to Version 2.0

In the preface to the first edition of this glossary, published in May 2011, I wrote:

When looking for definitions of terms in Requirements Engineering, one can find definitions for almost any term by searching the web. However, such searching requires effort and the quality of the results is unpredictable. Frequently, definitions found in different sources are inconsistent with each other. Existing glossaries in Requirements Engineering textbooks mostly focus on the topics covered in these books. Systematic translations of terminology into major languages other than English are missing completely.

This glossary aims at collecting the existing knowledge on Requirements Engineering terminology and defining the core terminology carefully and consistently. In cases where more than one definition is in use or where terms are defined differently when viewed from different perspectives, multiple definitions or perspectives are included. For terms having both a general meaning and a specific meaning in a Requirements Engineering context, both meanings are defined. Important terms are annotated with hints and additional information.

This glossary has closed the gap identified above. The principle of not just compiling existing definitions but defining the core Requirements Engineering terminology carefully and consistently, has also stood the test of time. Nevertheless, after almost ten years since its initial publication, it was time for a major revision.

A good glossary should be a stable work product: users need to rely on a common terminology — which is not possible when that terminology is constantly changing. On the other hand, it would be foolish to believe that terminology does not evolve over time. In particular, the major revision of the IREB CPRE Foundation Level syllabus required adaptations and extensions of the terminology. Doing a major revision was also an occasion to include important terms from the IREB CPRE Advanced Level syllabi (which did not yet exist when the glossary was initially published). Finally, IREB and ISTQB, the International Software Testing Qualification Board, had agreed in 2019 to harmonize the quality and testing terminology in their respective glossaries.

From the 128 terms defined in the first edition of the glossary, 42 (i.e., about one third) remained unchanged. 67 definitions underwent minor or merely syntactic changes. We rewrote 17 definitions, deleted two ones, and added 85 new definitions. Major additions concern terminology about agile, modeling, prototyping, and product lines. We also added several basic terms such as activity, method, process, or technique.

Many major changes were due to the harmonization of terminology with ISTQB. However, we also modernized fundamental terms: for example, we simplified the definitions of requirement and Requirements Engineering and made major changes to the notes in the definition of system. The major revision of the glossary was also an occasion to mark explanatory notes clearly in all definitions, separating them from the main definition phrase.

The translations of the terminology into other languages, which were an integral part of the previous versions of this glossary, are now published as separate dictionaries of terminology. I gratefully acknowledge the work performed by all the translators.



Karol Frühauf owes my deepest thanks for carefully reviewing all my definition drafts and for fruitful discussions that led to major improvements of this glossary. I also thank Xavier Franch and Stan Bühne for many helpful comments. Most of all, I thank my wife Angelika. Without her love, patience and understanding, most of my professional work, including this one, would not have been possible.

Martin Glinz

Zurich, October 2020

Preface to Version 2.2

This version is a minor revision of version 2.0 of October 2020. I added a few definitions based on feedback from the community. Furthermore, there is no longer a separate IREB RE@Agile Glossary. As a consequence, I have revised and extended the agile terminology in this glossary. Finally, the definitions of *client*, *customer* and *persona* are now aligned with the terminology that we had agreed upon when revising the IREB Digital Design Professional.

Zurich, October 2025

Acknowledgements

I gratefully acknowledge the contributions of several people to this glossary. Discussions and joint work with Klaus Pohl, Chris Rupp and Thorsten Weyer shaped several definitions in the first version of this glossary. Karol Frühauf carefully reviewed my drafts of all definitions in version 2.0. Karol's review comments and the subsequent discussions between him and me were valuable sources for improvement.

The alignment of terminology between the glossaries of IREB and ISTQB was achieved in intense discussions between Karol Frühauf and me for IREB and Matthias Hamburg and Armin Born for ISTQB.

Xavier Franch was the IREB Council shepherd for this glossary. He carefully reviewed the final draft and provided feedback that improved the final document in many places.

Many people contributed to the translations of the terminology into languages other than English. Only the translation into German was done by myself.

Translation

The translation of the glossary terms into Polish from the English glossary was provided by Monika Petri-Starego and Karolina Zmitrowicz. The English terms and definitions were taken 1:1 from the English glossary with the kind permission of the author.

CPRE Online Glossary

The CPRE Glossary is available online in all supported languages: https://cpre.ireb.org/en/downloads-and-resources/downloads#cpre-glossary



Version History

version history			
Version	Date	Change	
1.1.0	May 2011	Initial Document	
2.0.0	2.0.0 October 2020	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 independent dictionaries of RE terminology for languages other than English.	
2.0.1	July 2022	Bold used instead of asterisk for key terms	
2.0.2	January 2024	Updated to new corporate design	
2.1.0	January 2024	Correction of the swapped definitions for the terms <i>redundancy</i> and <i>refactoring</i> as well as for <i>statechart</i> and <i>state-transition diagram</i>	
2.2.0	October 2025	Minor revision: Addition of a few definitions of terms used in the IREB CPRE syllabi and handbooks. Update of the RE@Agile terminology. Alignment of some definitions with the terminology used in the IREB Digital Design Professional.	



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Definitions of Terms

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

Termin (polski)	Term (English)	Definition
Adekwatność (wymagania)	Adequacy (of a requirement)	The degree to which a <u>1</u> requirement expresses the <u>1</u> stakeholders' true and agreed desires and needs (i.e., those they had actually in mind when stating the requirement).
Agile, zwinny	Agile	 In general: a. Able to move quickly and easily. b. Quick, smart, and clever. 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.
Akceptacja	Acceptance	The process of assessing whether a $\underline{\uparrow}$ system satisfies all its $\underline{\uparrow}$ requirements.
Aktor	Actor	A person in some <u>1</u> role, a <u>1</u> 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 <u>1</u> system. In testing, it may be a test <u>1</u> object.
Aktywność	Activity	An action or a set of actions that a person or group performs to accomplish a $ extstyle extst$
Analiza ustrukturyzowana	Structured Analysis	An approach for specifying the <u>↑</u> functionality of a system based on a hierarchy of <u>↑</u> data flow diagrams. Data flows as well as persistent data are defined in a data dictionary. A <u>↑</u> context diagram models the sources of incoming and the destinations of outgoing <u>↑</u> data flows.



Termin (polski)	Term (English)	Definition
Analiza wymagań	Requirements analysis	 Analysis of elicited <u>↑</u>requirements in order to understand and document them. Synonym for <u>↑</u>Requirements Engineering.
Artefakt	Artifact	Synonym for <u>↑</u> work product.
Asocjacja	Association	In UML: A relationship between two <u>↑</u> classes in a <u>↑</u> UML <u>↑</u> class model.
Atrybut	Attribute	A characteristic property of an <u>↑</u> entity or an <u>↑</u> object.
Backlog	Backlog	ightharpoonup Product backlog, $ ightharpoonup$ sprint backlog. Typically used as a short form for $ ightharpoonup$ product backlog.
Backlog produktu	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.
Backlog sprintu	Sprint backlog	A set of $\underline{\uparrow}$ product backlog items that have been selected to be implemented in the current $\underline{\uparrow}$ sprint.
Bezpieczeństwo	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.
Błąd	Error	 A human action that produces an incorrect result. 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.



Termin (polski)	Term (English)	Definition
Cecha	Feature	 A distinguishing characteristic of a ↑system that provides value for ↑stakeholders. Notes: 1. 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. 2. In agile development, some approaches denote medium-grained requirements as features.
Cel	Goal	A desired state of affairs (that a <u>*</u> stakeholder wants to achieve). Note: Goals describe intentions of stakeholders. They may conflict with one another.
Defekt	Defect	An imperfection or deficiency in a <u>*</u> work product that impairs its intended use. Synonyms: bug, fault
Diagram aktywności	Activity diagram	A diagram type in \triangle UML which models the flow of actions in some part of a \triangle system, including \triangle data flows and areas of responsibility where necessary.
Diagram cech	Feature diagram	A diagrammatic representation of a <u>↑</u> feature model.
Diagram klas	Class diagram	A diagrammatic representation of a 1class model.
Diagram kontekstowy	Context diagram	A diagrammatic representation of a _context model. Note: In _Structured Analysis, the context diagram is the root of the _dataflow diagram hierarchy.
Diagram maszyny stanów	State machine diagram	A diagrammatic representation of a <u>1</u> state machine.
Diagram obiektów	Object diagram	A diagrammatic representation of an <u>↑</u> object model.
Diagram przejść pomiędzy stanami	State-transition diagram	→ State machine diagram.



Termin (polski)	Term (English)	Definition
Diagram przepływu	Data flow diagram	A diagrammatic representation of a 1 data flow model.
danych		Abbreviation: DFD
Diagram przypadków użycia	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 <u>↑</u> system boundary.
Diagram sekwencji	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.
Diagram związków encji	Entity-relationship diagram	A diagrammatic representation of an <u>1</u> entity-relationship model. Abbreviation: ERD
Dokument wymagań	Requirements document	A document consisting of a <u>1</u> requirements specification. Note: Requirements document is frequently used as a synonym for requirements specification.
Domena	Domain	A range of relevant things (for some given matter); for example, an <u>↑</u> application domain.
Domena aplikacji	Application domain	Those parts of the real world that are relevant for determining the $\underline{\uparrow}$ context of a $\underline{\uparrow}$ system.
Dostawca	Supplier	A person or organization who delivers a ↑product or ↑service to a ↑customer or a ↑client.
Efektywność	Efficiency	The degree to which resources are expended in relation to results achieved.
Element (pozycja)	Item	Anything which is perceivable or conceivable. Synonyms: \rightarrow entity, \rightarrow object
Element backlogu	Backlog item	An individual element of a ↑backlog. Note: Backlog items include ↑requirements, ↑stories, ↑tasks, ↑features, ↑epics, ↑defects to be fixed, or ↑refactorings to be done.



Termin (polski)	Term (English)	Definition
Encja	Entity	 In general: Anything which is perceivable or conceivable (→ item). In entity-relationship-modeling: An individual <u>↑</u>item which has an identity and does not depend on another item (→ object).
Epik	Epic	In agile development: A description of a \(\triangle\) stakeholder need which is typically larger than what can be implemented in a single \(\triangle\) iteration. Note: Epics typically represent coarse-grained \(\triangle\) requirements in a \(\triangle\) product backlog.
Funkcjonalność	Functionality	The capabilities of a $\underline{\uparrow}$ system as stated by its $\underline{\uparrow}$ functional requirements.
Gałąź	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.
Granica kontekstu	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.



Termin (polski)	Term (English)	Definition
Granica systemu	System boundary	 The boundary between a ↑system and its surrounding ↑context. Notes: The system boundary delimits the system as it shall be after its implementation and deployment. At the system boundary, the external interfaces between the ↑system and its ↑context have to be defined. 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).
Historyjka (w kontekście Agile)	Story (in an Agile context)	A short narrative describing a piece of required ↑functionality or ↑quality. Notes: 1. Stories may describe • funtionality or quality from a user's perspective (↑user story), • required infrastructure functionality or quality, • work items that enable required ↑features or properties of a ↑system. 2. In agile development, stories are frequently considered to be atomic ↑backlog items, that is, items which are not further decomposed in the ↑backlog.
Historyjka użytkownika	User story	 A short narrative describing a need from a ↑user's perspective together with the expected benefit when this need is satisfied. Also see → story. Notes: 1. User stories are typically written in ↑natural language using the ↑user story template and are usually accompanied by ↑acceptance criteria. 2. In agile development, user stories serve as a user-oriented way to discuss and formulate ↑requirements. They are typically considered to be atomic ↑backlog items, that is, items which are not further decomposed in the ↑backlog (see → story).
Homonim	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.



Termin (polski)	Term (English)	Definition
Inspekcja	Inspection	A formal <u>1</u> review of a <u>1</u> work product by a group of experts according to given criteria, following a defined procedure.
Interesariusz	Stakeholder	A person or organization who influences a <u>*</u> system's <u>*</u> 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.
Inżynier wymagań	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.
Inżynieria wymagań	Requirements Engineering	The systematic and disciplined approach to the <u>↑</u> specification and management of <u>↑</u> requirements with the goal of understanding the <u>↑</u> stakeholders' desires and needs and minimizing the <u>↑</u> risk of delivering a <u>↑</u> system that does not meet these desires and needs. Abbreviation: RE
Iteracja	Iteration	 In general: The repetition of something, for example, a procedure, a process or a piece of program code. 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.
Jakość	Quality	 In general: The degree to which a set of inherent characteristics of an item fulfills ↑requirements. 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.



Termin (polski)	Term (English)	Definition
Jednoznaczność (wymagań)	Unambiguity (of requirements)	The degree to which a <u>↑</u> requirement is expressed such that it cannot be understood differently by different people.
Język	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.
Język modelowania	Modeling language	A <u>↑</u> language for expressing <u>↑</u> models of a certain kind. May be textual, graphic, symbolic or some combination thereof.
Język naturalny	Natural language	A <u>1</u> language that people use for speaking and writing in everyday life. Note: This is in contrast to <i>artificial languages</i> that people have deliberately created for specific purposes such as programming or specifying.
Język specyfikacji	Specification language	An artificial ↑language that has been created for expressing ↑specifications.
Klasa	Class	A representation of a set of 1 objects of the same kind by describing the structure of the objects, the ways they can be manipulated and how they behave.
Klient (odbiorca)	Customer	 A person or organization who receives a ↑system, a ↑product or a ↑service. Notes: In most cases, customers are ↑stakeholders. Frequently, the persons or organizations who order a system are different from those who receive the system after it has been built. Therefore, we distinguish between ↑clients and customers. "Receiving" includes buying, being provided with and obtaining for free. When customer and client are the same person or organization, the term customer is used in RE contexts.



Termin (polski)	Term (English)	Definition
Klient (zamawiający)	Client	 A person or organization who orders a ↑system, a ↑product or a ↑service to be built. Notes: 1. In most cases, clients are ↑stakeholders. 2. Frequently, the persons or organizations who order a system are different from those who receive the system after it has been built. Therefore, we distinguish between clients and ↑customers.
Komitet sterujący	Steering committee	A committee that supervises a project.
Kompletność (wymagań)	Completeness (of requirements)	 For a single ↑ requirement: The degree to which the specification of a requirement is self-contained. 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.
Komponent	Component	 In general: A delimitable part of a _system. In software architecture: An encapsulated set of coherent _objects or _classes that jointly achieve some purpose. 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.
Kompozycja (w kontekście technicznym)	Composition (in a technical context)	 An <u>↑</u>item that is composed of a set of items; forming a whole-part relationship. The act of composing a whole from a set of parts.
Konfiguracja	Configuration	A consistent set of logically coherent <u>↑</u> items. The items are individually identifiable <u>↑</u> work products or parts of work products in at most one <u>↑</u> version per item.
Konfiguracja wymagań	Requirements configuration	→ Configuration
Konflikt (wymagań)	Conflict (about requirements)	→ Requirements conflict



Termin (polski)	Term (English)	Definition
Konflikt wymagań	Requirements conflict	 A situation where two or more \(\triangle \text{requirements cannot be satisfied together.}\) A situation where two or more \(\triangle \text{stakeholders disagree about certain \(\triangle \text{requirements.}\) Note: Requirements conflicts have to be solved by \(\triangle \text{requirements negotiation.}\)
Konieczność (wymagania)	Necessity (of a requirement)	The degree to which an individual <u>↑</u> requirement is a necessary part of the <u>↑</u> requirements specification of a <u>↑</u> system.
Kontekst	Context	 In general: The network of thoughts and meanings needed for understanding phenomena or utterances. 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.
Kontekst systemu	System context	The part of a \(\triangle\)system's environment that is relevant for the definition as well as the understanding of the \(\triangle\)requirements of a \(\triangle\)system to be developed.
Krotność	Multiplicity	<u>→</u> Cardinality
Kryteria akceptacji	Acceptance criteria	 The criteria that a ↑work product must satisfy to be accepted by the ↑stakeholders. In agile development: Criteria that the implementation of a ↑backlog item must satisfy in order to be accepted by the stakeholders.
Kryteria jakości (w IW)	Quality criteria (in RE)	 A set of expected ↑qualities of good ↑requirements or good RE ↑work products. Notes: 1. There is no general agreement about which sets of qualities form the quality criteria to be used in RE. 2. The set of quality criteria to be applied in a given project depends on the characteristics and ↑context of the project.



Termin (polski)	Term (English)	Definition
Liczność	Cardinality	 In modeling: The minimum and maximum number of ↑objects in a relationship. In mathematics: The number of elements in a set. Note: In ↑UML, the term multiplicity is used for cardinality.
Linia produktowa	Product line	A jointly managed set of systems (provided as products or services) that share a common core and have a configurable set of $ extstyle{\textstyle{\textstyle{1}}}$ variants for satisfying needs of particular $ extstyle{\textstyle{1}}$ customers or market segments. Note: The points in a product line where there is more than one $ extstyle{1}$ variant to select from are called $ extstyle{1}$ variation points. Synonym: Product family
Makieta (systemu informatycznego)	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.
mapa historyjek (story map).	Story map	A two-dimensional arrangement of $ extstyle e$
Maszyna stanów	State machine	A <u>1</u> model describing the behavior of a <u>1</u> system by a finite set of <i>states</i> and state <i>transitions</i> . State transitions are triggered by <i>events</i> and can in turn trigger <i>actions</i> and new events.
Metoda	Method	The systematic application of a <u>↑</u> technique (or a set of techniques) to achieve an objective or create a <u>↑</u> work product.
Metodologia	Methodology	 The systematic study of ↑methods in a particular field, in particular, how to select, apply or evaluate methods systematically in a given situation. A set of ↑methods being applied in some combination.



Termin (polski)	Term (English)	Definition
Model	Model	 An abstract representation of an existing part of reality or a part of reality to be created. Notes: The notion of reality includes any conceivable set of elements, phenomena, or concepts, including other models. Models are always built for specific purposes in a specific context. With respect to a model, the modeled part of reality is called the original. In RE, 1 requirements can be specified with models.
Model aktywności	Activity model	A ↑model of the flow of actions in some part of a ↑system.
Model cech	Feature model	A $\underline{\uparrow}$ model describing the variable features of a $\underline{\uparrow}$ product line, including their relationships and dependencies.
Model celów	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.
Model domenowy	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.
Model interakcji	Interaction model	A ↑model describing the interaction between a ↑system and its environment or the interaction of ↑items within a system. Note: ↑Scenarios and ↑use cases, for example, model the interaction between a system and its environment. A ↑sequence diagram, for example, can model the interaction between selected ↑objects within a system.



Termin (polski)	Term (English)	Definition
Model klas	Class model	A model consisting of a set of $\underline{\uparrow}$ classes and relationships between them.
Model kontekstowy	Context model	A <u>↑</u> model describing a <u>↑</u> system in its <u>↑</u> context.
Model obiektów	Object model	A <u>↑</u> model describing a set of <u>↑</u> objects and relationships between them.
Model procesu	Process model	A <u>↑</u> model describing a <u>↑</u> process or a set of related processes.
Model przepływu danych	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.
Model przypadków użycia	Use case model	A $\underline{\uparrow}$ model consisting of a set of $\underline{\uparrow}$ use cases, typically together with a $\underline{\uparrow}$ use case diagram.
Model wymagań	Requirements model	A <u>↑</u> model that has been created with the purpose of specifying <u>↑</u> requirements.
Model zachowania	Behavior model	A <u>↑</u> model describing the <u>↑</u> behavior of a <u>↑</u> system, e.g., by a <u>↑</u> state machine.
Model związków encji	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
Modyfikowalność	Modifiability	The degree to which a $\underline{\uparrow}$ work product or $\underline{\uparrow}$ system can be modified without degrading its $\underline{\uparrow}$ quality.
Nadmiarowość	Redundancy	Multiple occurrence of the same information or resource.
Narzędzie (w inżynierii oprogramowania)	Tool (in software engineering)	A (software) 1system that helps develop, operate and maintain systems. Note: In RE, tools support 1requirements management as well as modeling, documenting, and validating 1requirements.
Negocjacja	Negotiation	ightarrow Requirements negotiation



Termin (polski)	Term (English)	Definition
Negocjowanie wymagań	Requirements negotiation	A <u>↑</u> process where <u>↑</u> stakeholders are working toward reaching an agreement to resolve <u>↑</u> requirements conflicts.
Niejednoznaczność	Ambiguity	The contrary of unambiguity.
Niezawodność	Reliability	The degree to which a <u>1</u> system performs specified functions under specified conditions for a specified period of time. Note: Reliability may be stated as a <u>1</u> quality requirement.
Obiekt	Object	 In general: Anything which is perceivable or conceivable (→ item). In software engineering: an individual <u>↑</u>item which has an identity, is characterized by the values of its <u>↑</u>attributes and does not depend on another item (→ entity).
Odkrywanie wymagań	Requirements discovery	→ Requirements elicitation
Ograniczenie (w IW)	Constraint (in RE)	A <u>↑</u> requirement that limits the solution space beyond what is necessary for meeting the given <u>↑</u> functional requirements and <u>↑</u> quality requirements.
Ograniczenie czasowe (timebox)	Timebox	A fixed, non-extendable amount of time for completing a set of <u>↑</u> tasks.
Opracowanie (wymagań)	Elaboration (of requirements)	An umbrella term for requirements $\underline{\uparrow}$ elicitation, $\underline{\uparrow}$ negotiation and $\underline{\uparrow}$ validation.
Persona	Persona	A fictitious character representing a group of people with similar needs, values and habits who are expected to use a <u>1</u> system or benefit from it in a similar way.
Podatność na zmiany	Changeability	→ Modifiability



Termin (polski)	Term (English)	Definition
Półformalny, średnioformalny	Semi-formal	Something which is formal to some extent, but not completely. Note: A \(\triangle \text{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 \(\triangle \text{syntax}, \text{ while the } \(\triangle \text{semantics is partially defined only.}\)
Poprawność	Correctness	The degree to which the information contained in a \(\triangle \)work product is provably true. Note: In RE, correctness is sometimes used as a synonym for \(\triangle \)adequacy, particularly when validating a \(\triangle \)requirement rigorously against formally stated properties in the \(\triangle \)context of a \(\triangle \)system.
Pozyskiwanie (wymagań)	Elicitation (of requirements)	→ Requirements elicitation
Pozyskiwanie wymagań	Requirements elicitation	The process of seeking, capturing and consolidating $\underline{\uparrow}$ requirements from available $\underline{\uparrow}$ sources, potentially including the re-construction or creation of requirements.
Praktyka	Practice	A proven way of how to carry out certain types of <u>↑</u> tasks or <u>↑</u> activities.
Priorytet	Priority	The level of importance assigned to an <u>↑</u> item, e.g., a <u>↑</u> requirement or a <u>↑</u> defect, according to certain criteria.
Priorytetyzacja	Prioritization	The process of assigning priorities to a set of <u>↑</u> items.
Problem	Problem	A difficulty, open question or undesirable condition that needs investigation, consideration, or solution.
Proces (w odniesieniu do procesów biznesowych) lub przetwarzanie (jako czynność)	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).
Produkt (w kontekście oprogramowania)	Product (in the context of software)	A software-based $ extstyle extstyl$



Termin (polski)	Term (English)	Definition
Produkt pracy	Work product	A recorded, intermediate or final result generated in a work 1 process.
		Synonym: ^Artifact
Projekt	Design	 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 <u>↑</u> domain].
		Notes:
		1. In software product development, we distinguish between <i>creative design</i> which shapes the look and feel of the product, i.e., its perceivable form, function and quality, and <i>technical design</i> (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 <i>product design</i> .
		3. The creative design of digital solutions is called digital design.
Prototyp	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 1-system.
		3. In design: A preliminary, partial instance of a design solution.
		Notes:
		 In RE, prototypes are used as a means for requirements ↑elicitation (see ↑specification by example) and ↑validation.
		2. Prototypes in RE can be classified
		 with respect to their degree of fidelity into <u>↑</u>native prototypes, <u>↑</u>mock-ups and <u>↑</u>wireframes;
		 with respect to their purpose into <u>↑</u>exploratory prototypes and <u>↑</u>evolutionary prototypes.
Prototyp eksploracyjny	Exploratory prototype	A throwaway <u>1</u> prototype used to create shared understanding, clarify <u>1</u> requirements or validate requirements.
Prototyp ewolucyjny	Evolutionary prototype	A pilot system forming the core of a 1system to be developed.



Termin (polski)	Term (English)	Definition
Prototyp natywny	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.
Prototypowanie	Prototyping	A ↑process that involves the creation and evaluation of ↑prototypes.
Przegląd	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.
Przejrzenie	Walkthrough	A <u>review</u> in which the author of a <u>work</u> product leads the reviewers systematically through the work product and the reviewers ask questions and make comments about possible issues.
Przenaszalność (przenośność)	Portability	The ease with which a \pm system can be transferred to another platform while preserving its characteristics.
Przepływ danych	Data flow	A sequence of data items flowing from a producer to a consumer.
Przepływ sterowania	Control flow	The order in which a set of actions is executed.
Przypadek użycia	Use case	A set of possible interactions between external $ extstyle extsty$
Przyrost (w wytwarzaniu oprogramowania)	Increment (in software development)	An addition to a <u></u> system under development that extends, enhances or refactors (<u></u> refactoring) the existing parts of the system. Note: In <u></u> agile development, every <u></u> iteration produces an increment.
Punkt odchylenia	Variation point	A point in a <u>↑</u> product line where an element of the product line (typically a variable or a <u>↑</u> feature) can be chosen from a set of <u>↑</u> variants.



Termin (polski)	Term (English)	Definition
Punkt odniesienia	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.
Punkt odniesienia dla wymagań	Requirements baseline	A <u>↑</u> baseline for a set of <u>↑</u> requirements.
Punkt widzenia	Viewpoint	A certain perspective on the <u>1</u> requirements of a <u>1</u> system. Note: Typical viewpoints are perspectives that a <u>1</u> 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.
Rada Kontroli Zmian	Change control board	A committee of <u>↑</u> client and <u>↑</u> supplier representatives that decides on <u>↑</u> change requests. Abbreviation: CCB Note: The Change control board should not be confused with a <i>change advisory board</i> , which is a committee that evaluates change requests for a <u>↑</u> system in operation and typically has no decision power.
Refaktoryzacja	Refactoring	The improvement of the internal <u>↑</u> quality of source code, particularly the structure of the code, without changing its observable behavior.
Rodzaj wymagania	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.
Rola	Role	 In general: A part played by a person in a given context. In <u>↑</u>UML <u>↑</u>class models: The parts played by the linked <u>↑</u>objects in an <u>↑</u>association.



Termin (polski)	Term (English)	Definition
Rozgałęzianie wymagań	Requirements branching	→ Branch
Ryzyko	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.
Scenariusz	Scenario	 In general: A description of a potential sequence of events that lead to a desired (or unwanted) result. 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).
Schemat stanów	Statechart	A 1state machine having states that are hierarchically and/or orthogonally decomposed.
Scrum	Scrum	A popular <u>↑</u> process framework for <u>↑</u> agile development of a <u>↑</u> system.
Semantyka	Semantics	The meaning of a sign or a set of signs in a <u>↑</u> language.
Składnia	Syntax	The rules for constructing structured signs in a <u>↑</u> language.
Skuteczność	Effectiveness	The degree to which an <u>↑</u> item produces the intended results. Note: In RE, effectiveness frequently is the degree to which a <u>↑</u> system enables its <u>↑</u> users to achieve their <u>↑</u> goals.
Śledzenie powiązań pomiędzy wymaganiami	Traceability	 In general: The ability to establish explicit relationships between related ↑work products or ↑items within work products. In RE: The ability to trace a ↑requirement back to its origins, forward to its implementation in design and code and its associated tests, to requirements it depends on (and vice-versa).



Termin (polski)	Term (English)	Definition
Słownik	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.
Specyfikacja	Specification	 As a work product: A systematically represented description of the properties of an _item (asystem, a device, etc.) that satisfies given criteria. 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).
Specyfikacja na przykładach	Specification by example	A \triangle technique that specifies test cases and \triangle requirements for a \triangle system by providing examples of how the system should behave.
Specyfikacja wymagań	Requirements specification	 A systematically represented collection of ↑ requirements, typically for a ↑ system, that satisfies given criteria. Notes: 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). Requirements specification may also denote the ↑ process of specifying (↑ eliciting, documenting and ↑ validating) requirements.
Specyfikacja wymagań klienta	Customer requirements specification	A coarse description of the required capabilities of a <u>↑</u> system from the <u>↑</u> customer's perspective. Note: A customer requirements specification is usually supplied by the <u>↑</u> customer.
Specyfikacja wymagań na oprogramowanie	Software requirements specification	A <u>↑</u> requirements specification pertaining to a software <u>↑</u> system. Abbreviation: SRS



Termin (polski)	Term (English)	Definition
Specyfikacja wymagań na system	System requirements specification	A <u>*</u> requirements specification pertaining to a <u>*</u> system. Note: A system requirements specification is frequently considered to be a synonym for <u>*</u> requirements specification. Abbreviation: SyRS
Spike	Spike	In agile development: A task aimed at gaining insight or gathering information, rather than at producing a 1 product 1 increment.
Spójność (wymagań)	Consistency (of requirements)	The degree to which a set of <u>↑</u> requirements is free of contradicting statements.
Sprint (przebieg)	Sprint	An $\underline{\wedge}$ iteration in $\underline{\wedge}$ agile development, particularly when using $\underline{\wedge}$ Scrum.
Standard	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.
Synonim	Synonym	A word having the same meaning as another word.



Termin (polski)	Term (English)	Definition
System	System	 In general: A principle for ordering and structuring. In engineering: A coherent, delimitable set of elements that - by coordinated action - achieve some purpose. Notes: A system may comprise other systems or ↑components as sub-systems. 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. Systems containing both software and physical ↑components are called cyber-physical systems.
		 4. Systems spanning software, hardware, people and organizational aspects are called sociotechnical systems. Important: In this glossary, system is used as an umbrella term which includes
Szablon dokumentu	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.
Szablon formularza	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 specifyuse cases orquality requirements.



Termin (polski)	Term (English)	Definition
Szablon historyjki użytkownika	User story template	 A ↑phrase template of the form As a <role person="">, I want <something> so that <benefit>.</benefit></something></role> Notes: 1. Most ↑user stories are written using this template. 2. In agile development, this template is also used for expressing other ↑backlog items that communicate stakeholder needs, for example, ↑epics. 3. Some authors replace <something> by more concrete concepts such as <goal>, <desire>, or <target>.</target></desire></goal></something>
Szablon wymagań	Requirements template	A template for specifying <u>*</u> requirements. Note: In RE, several forms of templates are used. <u>*</u> Phrase templates are used for specifying individual <u>*</u> requirements or <u>*</u> user stories. <u>*</u> Form templates can be used to specify <u>*</u> use cases or <u>*</u> quality requirements. <u>*</u> Document templates provide a predefined structure for <u>*</u> requirements documents.
Szablon wyrażenia	Phrase template	A template for the syntactic structure of a phrase that expresses an individual $\underline{\uparrow}$ requirement or a $\underline{\uparrow}$ user story in $\underline{\uparrow}$ natural language ($\underline{\rightarrow}$ requirements template, $\underline{\rightarrow}$ user story template)
Szkielet (wireframe)	Wireframe	A low-fidelity <u>*</u> 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 <i>paper prototypes</i> .
Tablica decyzyjna	Decision table	A tabular representation of a complex decision, specifying which actions to perform for the possible combinations of condition values.
Tablica historyjek (storyboard)	Storyboard	A series of sketches or pictures that visualize the execution of a $ extstyle extsty$
Technika	Technique	A documented set of coherent actions for accomplishing a 1 task or achieving an objective.



Termin (polski)	Term (English)	Definition
Test akceptacyjny	Acceptance test	A test that assesses whether a <u>↑</u> system satisfies its <u>↑</u> requirements. Note: Typically used by <u>↑</u> customers or <u>↑</u> clients to determine whether or not to accept a system.
Tolerowanie usterek	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.
UML	UML	Abbreviation for Unified Modeling Language, a standardized language for modeling problems or solutions.
Usługa	Service	The provision of some _functionality to a human or a _functionality to 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 _functionality to a human or a _functionality to a human
Usterka	Bug	<u>→</u> Defect
Usterka	Fault	<u>→</u> Defect
Utrzymywalność	Maintainability	The ease with which a ↑system can be modified by the intended maintainers. Note: Maintainability may be stated as a ↑quality requirement.
Użyteczność	Usability	The degree to which a \(\triangle \)system can be used by specified \(\triangle \)users to achieve specified \(\triangle \)goals in a specified context of use. Note: Usability particularly includes the capability of a \(\triangle \)system to be understood, learned, used, and liked by its intended \(\triangle \)users.



Termin (polski)	Term (English)	Definition
Użytkownik	User	A person who uses the ↑functionality provided by a ↑system. Note: Users (also called end users) always are ↑stakeholders of a ↑system.
Użytkownik końcowy	End user	<u>→</u> User
Velocity	Velocity	In agile development: The average amount of work that a team is able to complete in an <u>↑</u> iteration. Note: Agile teams decide how to meaure <i>amount of work</i> . For example, they may measure the average number of <u>↑</u> stories implemented per <u>↑</u> iteration, or, if they measure the size of stories with so-called story points, the average number of story points implemented per iteration.
Walidacja	Validation	The <u>↑</u> process of confirming that an <u>↑</u> item (a <u>↑</u> system, a <u>↑</u> work product or a part thereof) matches its <u>↑</u> stakeholders' needs. Note: In RE, validation is the process of confirming that the documented <u>↑</u> requirements match their <u>↑</u> stakeholders' needs; in other words: whether the right requirements have been specified.
Wariant	Variant	One of the possible forms that an <u>↑</u> item (e.g., a <u>↑</u> requirement) may have.
Wersja	Version	An occurrence of an <u>↑</u> item which exists in multiple, time-ordered occurrences where each occurrence has been created by modifying one of its previous occurrences.
Weryfikacja	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 _requirements for requirements; in other words, whether the requirements have been specified right.
Weryfikowalność (wymagań)	Verifiability (of requirements)	The degree to which the fulfillment of a <u>1</u> requirement by an implemented <u>1</u> system can be verified. Note: Such <u>1</u> verification can be performed, for example, by defining <u>1</u> acceptance test cases, measurements or <u>1</u> inspection procedures.



Termin (polski)	Term (English)	Definition
Widok	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.
Wizja (systemu lub produktu)	Vision (for a system or product)	A conceptual imagination of a future $ extstyle extstyl$
Właściciel produktu	Product owner	A person responsible for a \uparrow product in terms of \uparrow functionality, value and \uparrow risk. Note: The product owner maintains and prioritizes the \uparrow product backlog, makes sure that the \uparrow stakeholders' \uparrow requirements as well as market needs are elicited and adequately documented in the \uparrow product backlog and represents the stakeholders when communicating with the development team.
Wspólność	Commonality	The parts of a ↑product line that are shared by all its members.
Wydanie	Release	A $\underline{\uparrow}$ configuration that has been released for installation and use by $\underline{\uparrow}$ customers.
Wykonalność (wymagania)	Feasibility (of a requirement)	The degree to which a <u>↑</u> requirement for a <u>↑</u> system can be implemented under existing <u>↑</u> constraints.
Wykres spalania	Burndown chart	A diagram plotting the work items that remain to accomplish on a time scale.
Wymaganie	Requirement	 A need perceived by a <u>*</u>stakeholder. A capability or property that a <u>*</u>system shall have. A documented representation of a need, capability or property.
Wymaganie biznesowe	Business requirement	A <u>^</u> requirement stating a business <u>^</u> 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 <u>^</u> system or a collection of systems.
Wymaganie domenowe	Domain requirement	A <u>↑</u> domain property in the <u>↑</u> context of a <u>↑</u> system that is required to hold.



Termin (polski)	Term (English)	Definition
Wymaganie funkcjonalne	Functional requirement	A $\underline{\uparrow}$ requirement concerning a result or $\underline{\uparrow}$ behavior that shall be provided by a function of a $\underline{\uparrow}$ system.
Wymaganie interesariusza	Stakeholder requirement	A <u>*</u>
Wymaganie jakościowe	Quality requirement	A $\underline{\uparrow}$ requirement that pertains to a quality concern that is not covered by $\underline{\uparrow}$ functional requirements.
Wymaganie niefunkcjonalne	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.
Wymaganie systemowe	System requirement	A <u>↑</u> requirement pertaining to a <u>↑</u> system.
Wymaganie użytkownika	User requirement	A <u>^</u> requirement expressing a <u>^</u> 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 <u>^</u> stakeholder requirements.
Wymaganie wydajności	Performance requirement	A <u>^</u> requirement describing a performance characteristic (timing, speed, volume, capacity, throughput,). Note: In this glossary, performance requirements are regarded as a sub-category of <u>^</u> quality requirements. However, they can also be considered as a <u>^</u> kind of requirements of its own.
Wzorzec procesowy	Process pattern	An abstract, reusable 1 model of a 1 process which can be used to configure and instantiate a concrete process for a given situation and 1 context.



Termin (polski)	Term (English)	Definition
Zabezpieczenia	Security	The degree to which a \uparrow system protects its data and resources against unauthorized access or use and secures unobstructed access and use for its legitimate \uparrow users. Note: Security requirements may be stated as \uparrow quality requirements or in terms of \uparrow functional requirements.
Zachowanie	Behavior	The way in which a <u>1</u> 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.
Zadanie	Task	A coherent chunk of work to be done.
Żądanie zmiany	Change request	In RE: A well-argued request for changing one or more <u>↑</u> baselined <u>↑</u> requirements.
Zakres (wytwarzania systemu)	Scope (of a system development)	The range of things that can be shaped and designed when developing a $ extstyle ext$
Zarządzanie wymaganiami	Requirements management	The process of managing existing <u>1</u> requirements and requirements-related <u>1</u> work products, including the storing, changing and tracing of requirements (<u>1</u> traceability).
Zarządzanie zmianami	Change management	A controlled way to effect or deny a requested change of a 1work product.
Zgodność	Conformity	The degree to which a <u>↑</u> work product conforms to regulations given in some <u>↑</u> standard.
Zgodność z przepisami	Compliance	The adherence of a $\underline{\uparrow}$ work product to $\underline{\uparrow}$ standards, conventions, regulations, laws, or similar prescriptions.
Zmienność	Variability	 The degree to which a ↑system can be changed or customized. In product lines: The ↑features that can differ among the members of the ↑product line.
Źródło (wymagania)	Source (of a requirement)	→ Requirements source



Termin (polski)	Term (English)	Definition
Źródło wymagań	Requirements source	The source from which a <u>↑</u> requirement has been derived. Note: Typical sources are <u>↑</u> stakeholders, documents, existing <u>↑</u> systems and observations.
Zrozumiałość	Understandability	The degree to which an <u>↑</u> item is comprehensible to its intended users. Note: Typical items are: a <u>↑</u> system, a <u>↑</u> work product, or a part thereof.



English - Polski Dictionary

Term (English)	Termin (polski)
Acceptance	Akceptacja
Acceptance criteria	Kryteria akceptacji
Acceptance test	Test akceptacyjny
Activity	Aktywność
Activity diagram	Diagram aktywności
Activity model	Model aktywności
Actor	Aktor
Adequacy (of a requirement)	Adekwatność (wymagania)
Agile	Agile, zwinny
Ambiguity	Niejednoznaczność
Application domain	Domena aplikacji
Artifact	Artefakt
Association	Asocjacja
Attribute	Atrybut
Backlog	Backlog
Backlog item	Element backlogu
Baseline	Punkt odniesienia
Behavior	Zachowanie
Behavior model	Model zachowania
Branch	Gałąź
Bug	Usterka
Burndown chart	Wykres spalania
Business requirement	Wymaganie biznesowe
Cardinality	Liczność
Change control board	Rada Kontroli Zmian
Change management	Zarządzanie zmianami



Term (English)	Termin (polski)
Change request	Żądanie zmiany
Changeability	Podatność na zmiany
Class	Klasa
Class diagram	Diagram klas
Class model	Model klas
Client	Klient (zamawiający)
Commonality	Wspólność
Completeness (of requirements)	Kompletność (wymagań)
Compliance	Zgodność z przepisami
Component	Komponent
Composition (in a technical context)	Kompozycja (w kontekście technicznym)
Configuration	Konfiguracja
Conflict (about requirements)	Konflikt (wymagań)
Conformity	Zgodność
Consistency (of requirements)	Spójność (wymagań)
Constraint (in RE)	Ograniczenie (w IW)
Context	Kontekst
Context boundary	Granica kontekstu
Context diagram	Diagram kontekstowy
Context model	Model kontekstowy
Control flow	Przepływ sterowania
Correctness	Poprawność
Customer	Klient (odbiorca)
Customer requirements specification	Specyfikacja wymagań klienta
Data flow	Przepływ danych
Data flow diagram	Diagram przepływu danych
Data flow model	Model przepływu danych
Decision table	Tablica decyzyjna



Term (English)	Termin (polski)
Defect	Defekt
Design	Projekt
Document template	Szablon dokumentu
Domain	Domena
Domain model	Model domenowy
Domain requirement	Wymaganie domenowe
Effectiveness	Skuteczność
Efficiency	Efektywność
Elaboration (of requirements)	Opracowanie (wymagań)
Elicitation (of requirements)	Pozyskiwanie (wymagań)
End user	Użytkownik końcowy
Entity	Encja
Entity-relationship diagram	Diagram związków encji
Entity-relationship model	Model związków encji
Epic	Epik
Error	Błąd
Evolutionary prototype	Prototyp ewolucyjny
Exploratory prototype	Prototyp eksploracyjny
Fault	Usterka
Fault tolerance	Tolerowanie usterek
Feasibility (of a requirement)	Wykonalność (wymagania)
Feature	Cecha
Feature diagram	Diagram cech
Feature model	Model cech
Form template	Szablon formularza
Functional requirement	Wymaganie funkcjonalne
Functionality	Funkcjonalność
Glossary	Słownik



Term (English)	Termin (polski)
Goal	Cel
Goal model	Model celów
Homonym	Homonim
Increment (in software development)	Przyrost (w wytwarzaniu oprogramowania)
Inspection	Inspekcja
Interaction model	Model interakcji
Item	Element (pozycja)
Iteration	Iteracja
Kind of requirement	Rodzaj wymagania
Language	Język
Maintainability	Utrzymywalność
Method	Metoda
Methodology	Metodologia
Mock-up (of a digital system)	Makieta (systemu informatycznego)
Model	Model
Modeling language	Język modelowania
Modifiability	Modyfikowalność
Multiplicity	Krotność
Native prototype	Prototyp natywny
Natural language	Język naturalny
Necessity (of a requirement)	Konieczność (wymagania)
Negotiation	Negocjacja
Non-functional requirement	Wymaganie niefunkcjonalne
Object	Obiekt
Object diagram	Diagram obiektów
Object model	Model obiektów
Performance requirement	Wymaganie wydajności
Persona	Persona



Term (English)	Termin (polski)
Phrase template	Szablon wyrażenia
Portability	Przenaszalność (przenośność)
Practice	Praktyka
Prioritization	Priorytetyzacja
Priority	Priorytet
Problem	Problem
Process	Proces (w odniesieniu do procesów biznesowych) lub przetwarzanie (jako czynność)
Process model	Model procesu
Process pattern	Wzorzec procesowy
Product (in the context of software)	Produkt (w kontekście oprogramowania)
Product backlog	Backlog produktu
Product line	Linia produktowa
Product owner	Właściciel produktu
Prototype	Prototyp
Prototyping	Prototypowanie
Quality	Jakość
Quality criteria (in RE)	Kryteria jakości (w IW)
Quality requirement	Wymaganie jakościowe
Redundancy	Nadmiarowość
Refactoring	Refaktoryzacja
Release	Wydanie
Reliability	Niezawodność
Requirement	Wymaganie
Requirements analysis	Analiza wymagań
Requirements baseline	Punkt odniesienia dla wymagań
Requirements branching	Rozgałęzianie wymagań
·	Rozgałęzianie wymagań Konfiguracja wymagań
Requirements branching	



Term (English)	Termin (polski)
Requirements discovery	Odkrywanie wymagań
Requirements document	Dokument wymagań
Requirements elicitation	Pozyskiwanie wymagań
Requirements Engineer	Inżynier wymagań
Requirements Engineering	Inżynieria wymagań
Requirements management	Zarządzanie wymaganiami
Requirements model	Model wymagań
Requirements negotiation	Negocjowanie wymagań
Requirements source	Źródło wymagań
Requirements specification	Specyfikacja wymagań
Requirements template	Szablon wymagań
Review	Przegląd
Risk	Ryzyko
Role	Rola
Safety	Bezpieczeństwo
Scenario	Scenariusz
Scope (of a system development)	Zakres (wytwarzania systemu)
Scrum	Scrum
Security	Zabezpieczenia
Semantics	Semantyka
Semi-formal	Półformalny, średnioformalny
Sequence diagram	Diagram sekwencji
Service	Usługa
Software requirements specification	Specyfikacja wymagań na oprogramowanie
Source (of a requirement)	Źródło (wymagania)
Specification	Specyfikacja
Specification by example	Specyfikacja na przykładach
Specification language	Język specyfikacji



Term (English)	Termin (polski)
Spike	Spike
Sprint	Sprint (przebieg)
Sprint backlog	Backlog sprintu
Stakeholder	Interesariusz
Stakeholder requirement	Wymaganie interesariusza
Standard	Standard
State machine	Maszyna stanów
State machine diagram	Diagram maszyny stanów
Statechart	Schemat stanów
State-transition diagram	Diagram przejść pomiędzy stanami
Steering committee	Komitet sterujący
Story (in an Agile context)	Historyjka (w kontekście Agile)
Story map	mapa historyjek (story map).
Storyboard	Tablica historyjek (storyboard)
Structured Analysis	Analiza ustrukturyzowana
Supplier	Dostawca
Synonym	Synonim
Syntax	Składnia
System	System
System boundary	Granica systemu
System context	Kontekst systemu
System requirement	Wymaganie systemowe
System requirements specification	Specyfikacja wymagań na system
Task	Zadanie
Technique	Technika
Timebox	Ograniczenie czasowe (timebox)
Tool (in software engineering)	Narzędzie (w inżynierii oprogramowania)
Traceability	Śledzenie powiązań pomiędzy wymaganiami



Term (English)	Termin (polski)
UML	UML
Unambiguity (of requirements)	Jednoznaczność (wymagań)
Understandability	Zrozumiałość
Usability	Użyteczność
Use case	Przypadek użycia
Use case diagram	Diagram przypadków użycia
Use case model	Model przypadków użycia
User	Użytkownik
User requirement	Wymaganie użytkownika
User story	Historyjka użytkownika
User story template	Szablon historyjki użytkownika
Validation	Walidacja
Variability	Zmienność
Variant	Wariant
Variation point	Punkt odchylenia
Velocity	Velocity
Verifiability (of requirements)	Weryfikowalność (wymagań)
Verification	Weryfikacja
Version	Wersja
View	Widok
Viewpoint	Punkt widzenia
Vision (for a system or product)	Wizja (systemu lub produktu)
Walkthrough	Przejrzenie
Wireframe	Szkielet (wireframe)
Work product	Produkt pracy



List of Abbreviations

CCB Change control board

CPRE Certified Professional for Requirements Engineering

DFD Data flow diagram

ER Entity-relationship

ERD Entity-relationship diagram

IREB International Requirements Engineering Board

RE Requirements Engineering

SRS Software requirements specification

SyRS System requirements specification

UML Unified Modeling Language



Sources

I don't cite sources for individual definitions because I deliberately decided not to compile definitions from various existing sources just by copy-paste, but to carefully re-formulate all definitions consistently and according to today's use.

Several definitions are based on my own work [GI07], [GIWi07], [GI19]. Some definitions from the agile domain are joint work of myself with the IREB RE@Agile working group. The major revision of the IREB CPRE Foundation Level syllabus in 2020 [IREB20] also informed several new or changed definitions.

I consulted numerous international standards when writing the definitions [IEEE610], [IEEE730], [IEEE830], [IEEE1012], [IEEE1028], [ISO9000], [ISO12207], [ISO19770], [ISO20246], [ISO24765], [ISO25000], [ISO25010], [ISO26550], [ISO29148], [ISO42010]. However, as the terminology defined or used in these standards is frequently inconsistent or inadequate for a Requirements Engineering glossary, I did not copy any definitions verbatim from these standards.

Other sources that influenced some definitions are [GaWe89], [My06], [Po10], [St73], and [ZoCo05].

For cross-checking, I also consulted the Merriam-Webster online dictionary (https://www.merriam-webster.com) and Wikipedia (https://en.wikipedia.org). I have not used any generative AI tools.

Below I want to give credit for some definitions that I have taken more or less verbatim from a source or that are joint work with others.

Tabelle 0.1: Credits

Term	Reference
Context boundary	Joint work with Klaus Pohl, Chris Rupp, and Thorsten Weyer, based on [Po10], [PoRu11] and [We10]
Functional requirement	Joint work with Klaus Pohl, Chris Rupp, and Thorsten Weyer
Model	Joint work with Klaus Pohl and Chris Rupp, based on [PoRu11]
Quality requirement	Joint work with Klaus Pohl, Chris Rupp, and Thorsten Weyer, based on definitions in my course notes on Requirements Engineering I
Requirements Engineering	Definition is a simplification of a definition that was joint work with Klaus Pohl, Chris Rupp, and Thorsten Weyer
Requirements specification	Adapted from Pohl and Rupp [PoRu11]
System boundary	Joint work with Klaus Pohl, Chris Rupp, and Thorsten Weyer based on [Po10], [PoRu11]
System context	Joint work with Klaus Pohl, Chris Rupp, and Thorsten Weyer based on [Po10], [PoRu11], [We10]



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