

# Inglês Técnico

## **Analista de Sistemas**





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### Introdução

### Vocabulário e expressões essenciais para Analistas de Sistemas

Bem-vindo à nossa apostila de inglês técnico para Analistas de Sistemas!

Neste material, iremos explorar os termos e expressões necessárias para uma comunicação eficaz no setor de tecnologia da informação.

Você desenvolverá habilidades para articular conceitos técnicos de forma clara e precisa, enquanto adquire a capacidade de compreender e responder aos desafios e demandas do mundo da análise de sistemas.

Estamos empolgados para iniciar esta jornada de aprendizado com você, contribuindo para o seu sucesso profissional!

Vamos começar!



### Orientação

## Siga estas orientações para otimizar o uso deste material e potencializar o seu aprendizado

- 1 Imprima este PDF;
- 2 Destaque com caneta marca-texto as palavras desconhecidas;
- 3 Leia a coluna meaning para descobrir o significado, sem usar tradutores;
- 4 Construa frases com aplicação das novas palavras que você está aprendendo.

Se precisar de inspiração, use o dictionary.cambridge.org/

Faça isso por meio da escrita e não da digitação, pois isso potencializa o armazenamento do novo conhecimento na memória de longo prazo.



## **Expressões**

Exemplos				
<b>Backlog</b> Atraso, acúmulo	He has given high priority to eliminate the backlog of the older incidents.  Ele deu alta prioridade para eliminar o atraso dos incidentes mais antigos.			
Configuration management Gerenciamento de configuração	What is the need for a software configuration management?  Qual é a necessidade de um gerenciamento de configuração de software?			
<b>Constraint</b> Limitação/restrição	He presented several potential constraints for the university system.  Ele apresentou várias limitações potenciais para o sistema universitário.			
<b>Deliverable</b> Entrega	The deliverables of the action plan have been analyzed. Os resultados do plano de ação foram analisados.			
<b>Development environment</b> Ambiente de desenvolvimento	We think there is a need to design and implement a development environment that will feel familiar to the team.  Achamos que é necessário projetar e implementar um ambiente de desenvolvimento que parecerá familiar para a equipe.			
<b>Evaluation</b> Avaliação	System evaluation is the process of assessing the performance of a complete system to discover how it is likely to perform in live market conditions.  Avaliação do sistema é o processo de avaliar o desempenho completo de um sistema para descobrir como é provável que ele atue em condições de mercado.			
<b>Feasibility</b> Viabilidade	A feasibility study helps management decide if system development is viable.  O estudo de viabilidade ajuda a gerência a decidir se o desenvolvimento do sistema é viável.			
<b>Feature</b> Característica	It includes the analysis of data which determine the requirement specification and description of features for a new system.  Inclui a análise de dados que determinam a especificação de requisitos e a descrição das características para um novo sistema.			
Functional requirement Requisito funcional	Functional requirements are requirements which describes what something should be able to do.  Requisitos funcionais são requisitos que descrevem o que algo deve ser capaz de fazer.			
<b>Input</b> Insumo	We present two case studies that provide inputs to component analysis applications.  Apresentamos dois estudos de caso que fornecem insumos para aplicativos de análise de componentes.			



## **Expressões**

Exemplos				
<b>Iteration</b> Iteração	The network was trained by processing 12 iterations of the complete training set.  A rede foi treinada processando 12 iterações do conjunto de			
	treinamento completo.			
Life cycle	Many of these technological products have only a very short life cycle.			
Ciclo de vida	Muitos desses produtos tecnológicos têm um ciclo de vida muito curto.			
Non-functional requirement	In software engineering, should non-functional requirements be included in a product backlog?			
Requisito não funcional	Na engenharia de software, os requisitos não funcionais devem ser incluídos no backlog de um produto?			
<b>Production environment</b>	What is the biggest mistake that happened in your production environment?			
Ambiente de produção	Qual foi o maior erro que aconteceu no seu ambiente de produção?			
Project management	We are looking for a candidate with strong project management skills.			
Gerenciamento de projetos	Estamos à procura de um candidato com fortes habilidades de gerenciamento de projetos.			
Proof of concept (POC)	A Proof of Concept (POC) is a small exercise to test the design idea or assumption.			
Prova de conceito	Uma Prova de Conceito é um pequeno exercício para testar a ideia ou suposição de design.			
Repository	Which programming language has the best repository of machine learning libraries?			
Repositório	Qual linguagem de programação tem o melhor repositório de bibliotecas de aprendizado de máquina?			
Scope	The scope of the work is described on the second page.			
Escopo	O escopo do trabalho está descrito na segunda página.			
Staging environment	I'm wondering if anyone has any experience setting up a staging environment.			
Ambiente de homologação	Estou pensando se alguém tem alguma experiência em configurar um ambiente de homologação.			
Stakeholders	In business, a stakeholder is usually an investor in your company whose actions determine the outcome of your business decisions.			
Partes interessadas	Nos negócios, uma parte interessada é geralmente um investidor em sua empresa cujas ações determinam o resultado de suas decisões de negócios.			



## **Expressões**

Exemplos				
Statement	A problem statement is a clear concise description of the issue(s) that need(s) to be addressed by a problem-solving team.			
Declaração	Uma declaração de problema é uma descrição clara e concisa dos problemas que precisam ser resolvidos por uma equipe de solução de problemas.			
A Statement of Work (SOW) is a document within a contract that describe the work (SOW)				
Declaração de trabalho	Uma declaração de trabalho é um documento dentro de um contrato que descreve os requisitos de trabalho para um projeto específico.			
Survey	Questionnaires can be used to survey a large sample of system users.			
Pesquisa	Questionários podem ser usados para pesquisar uma grande amostra de usuários do sistema.			
User acceptance test (UAT)  The consultancy firm will design user acceptance tests and control UAT process.				
Teste de aceite	A empresa de consultoria projetará testes de aceitação do usuário e controlará o processo UAT.			

Exemplos adicionais					
Defect	Defeitos	Knowledge area	Área de conhecimento		
Lessons learned	Lições aprendidas	Prototype	Protótipo		
Requirements	Requisitos	Root cause	Causa raiz		





## Acceptance criteria

Criteria associated with requirements, products, or the delivery cycle that must be met in order to achieve stakeholder acceptance.

## Actor (business analysis)

A human, device, or system that plays some specified role in interacting with a solution.

### Adaptive approach

An approach where the solution evolves based on a cycle of learning and discovery, with feedback loops which encourage making decisions as late as possible.

## Agile Extension to the BABOK® Guide

A standard on the practice of business analysis in an agile context. The Agile Extension to the BABOK® Guide version 1 was published in 2013 by IIBA®, in partnership with the Agile Alliance.

#### **Applet**

A program that runs in the context of a browser.

#### **Application**

A program that runs when translated by a Java compiler

#### **Architecture**

The design, structure, and behaviour of the current and future states of a structure in terms of its components, and the interaction between those components.

## Artifact (business analysis)

Any solution-relevant object that is created as part of business analysis efforts.

### **Assumption**

An influencing factor that is believed to be true but has not been confirmed to be accurate, or that could be true now but may not be in the future.



### Behavioural business rule

A business rule that places an obligation (or prohibition) on conduct, action, practice, or procedure; a business rule whose purpose is to shape (govern) day-to-day business activity. Also known as operative rule.

### **Benchmarking**

A comparison of a decision, process, service, or system's cost, time, quality, or other metrics to those of leading peers to identify opportunities for improvement.



### **Body of knowledge**

The aggregated knowledge and generally accepted practices on a topic.

#### **Brainstorming**

A team activity that seeks to produce a broad or diverse set of options through the rapid and uncritical generation of ideas.

## Business (business world)

An economic system where any commercial, industrial, or professional activity is performed for profit.

#### **Business analysis**

The practice of enabling change in the context of an enterprise by defining needs and recommending solutions that deliver value to stakeholders.

## Business analysis approach

The set of processes, rules, guidelines, heuristics, and activities that are used to perform business analysis in a specific context.

# Business analysis communication plan

A description of the types of communication the business analyst will perform during business analysis, the recipients of those communications, and the form and frequency of those communications.

### Business analysis effort

The scope of activities a business analyst is engaged in during the life cycle of an initiative.

## **Business analysis** information

Any kind of information at any level of detail that is used as an input to business analysis work, or as an output of business analysis work.

## Business analysis package

A document, presentation, or other collection of text, matrices, diagrams and models, representing business analysis information.

## Business analysis plan

You might hear colleagues referring to industry "best practice", which describes a generally acknowledged 'best way of doing things' in order to achieve optimum results.

### **Business analyst**

Any person who performs business analysis, no matter their job title or organizational role.

### Business architecture

The design, structure, and behaviour of the current and future states of an enterprise to provide a common understanding of the organization. It is used to align the enterprise's strategic objectives and tactical demands.



#### **Business** case

A justification for a course of action based on the benefits to be realized by using the proposed solution, as compared to the cost, effort, and other considerations to acquire and live with that solution.

#### **Business decision**

A decision that can be made based on strategy, executive judgment, consensus, and business rules, and that is generally made in response to events or at defined points in a business process.

#### **Business goal**

A state or condition that an organization is seeking to establish and maintain, usually expressed qualitatively rather than quantitatively.

#### **Business** need

A problem or opportunity of strategic or tactical importance to be addressed.

### **Business objective**

An objective, measurable result to indicate that a business goal has been achieved.

#### **Business policy**

A non-practicable directive that controls and influences the actions of an enterprise.

### **Business problem**

An issue of strategic or tactical importance preventing an enterprise or organization from achieving its goals.

### **Business process**

An end-to-end set of activities which collectively responds to an event, and transforms information, materials, and other resources into outputs that deliver value directly to the customers of the process. It may be internal to an organization, or it may span several organizations.

# Business process management (BPM)

A management discipline that determines how manual and automated processes are created, modified, cancelled, and governed.

## Business process re-engineering

Rethinking and redesigning business processes to generate improvements in performance measures.



## Business requirement

A representation of goals, objectives and outcomes that describe why a change has been initiated and how success will be assessed.

#### **Business rule**

A specific, practicable, testable directive that is under the control of the business and that serves as a criterion for guiding behaviour, shaping judgments, or making decisions.



### Capability

The set of activities the enterprise performs, the knowledge it has, the products and services it provides, the functions it supports, and the methods it uses to make decisions.

#### Change

The act of transformation in response to a need.

#### Change agent

One who is a catalyst for change.

#### **Change control**

Controlling changes to requirements and designs so that the impact of requested changes is understood and agreed-to before the changes are made.

## Change management

Planned activities, tools, and techniques to address the human side of change during a change initiative, primarily addressing the needs of the people who will be most affected by the change.

### Change strategy

A plan to move from the current state to the future state to achieve the desired business objectives.

### Change team

The same throughout in structure or composition.

## Checklist (business analysis)

A standard set of quality elements that reviewers use for requirements verification.

#### Collaboration

The act of two or more people working together towards a common goal.

## Command language (CLI)

A set of procedural operators with a related syntax, used to indicate the function to be performed by an operating system.



#### Commercial offthe-shelf (COTS)

A prepackaged solution available in the marketplace which address all or most of the common needs of a large group of buyers of those solutions. A commercial off-the-shelf solution may require some configuration to meet the specific needs of the enterprise.

## **Competitive** analysis

A structured assessment which captures the key characteristics of an industry to predict the long-term profitability prospects and to determine the practices of the most significant competitors.

### Component

A uniquely identifiable element of a larger whole that fulfills a clear function.

#### **Computer program**

A sequence of instructions suitable for processing by a computer.

### **Concept model**

An analysis model that develops the meaning of core concepts for a problem domain, defines their collective structure, and specifies the appropriate vocabulary needed to communicate about it consistently.

## Constraint (business analysis)

An influencing factor that cannot be changed, and that places a limit or restriction on a possible solution or solution option.

#### Context

The circumstances that influence, are influenced by, and provide understanding of the change.

## Core concept (business analysis)

One of six ideas that are fundamental to the practice of business analysis: Change, Need, Solution, Context, Stakeholder, and Value.

## Cost-benefit analysis

An analysis which compares and quantifies the financial and non-financial costs of making a change or implementing a solution compared to the benefits gained.



Create, read, update, and delete matrix (CRUD matrix)

A two-dimensional matrix showing which user roles have permission to access specific information entities, and to create new records in those entities, view the data in existing records, update or modify the data in existing records, or delete existing records. The same type of matrix can be used to show which processes, instead of users, have the create, read, update and delete rights.

#### Customer

A stakeholder who uses or may use products or services produced by the enterprise and may have contractual or moral rights that the enterprise is obliged to meet.



#### **Data Flow Diagram**

Diagram representing the flow of data through system process.

### **Decision analysis**

An approach to decision making that examines and models the possible consequences of different decisions, and assists in making an optimal decision under conditions of uncertainty.

### **Decomposition**

A technique that subdivides a problem into its component parts in order to facilitate analysis and understanding of those components.

#### Defect

A deficiency in a product or service that reduces its quality or varies from a desired attribute, state, or functionality.

## Definitional business rule

A rule that indicates something is necessarily true (or untrue); a rule that is intended as a definitional criterion for concepts, knowledge, or information. Also known as a structural rule.

### **Deliverable**

Any unique and verifiable work product or service that a party has agreed to deliver.

#### Design

A usable representation of a solution.

## Document analysis (business analysis)

An examination of the documentation of an existing system in order to elicit requirements.

#### **Domain**

The sphere of knowledge that defines a set of common requirements, terminology, and functionality for any program or initiative solving a problem.



Domain subject matter expert

A stakeholder with in-depth knowledge of a topic relevant to the business need or solution scope.

Dynamic systems development method (DSDM)

A project delivery framework which focuses on fixing cost, quality, and time at the beginning while contingency is managed by varying the features to be delivered.



**Elicitation** 

Iterative derivation and extraction of information from stakeholders or other sources.

**End user** 

A stakeholder who directly interacts with the solution.

**Enterprise** 

A system of one or more organizations and the solutions they use to pursue a shared set of common goals.

**Enterprise** architecture

A description of the business processes, information technology, people, operations, information, and projects of an enterprise and the relationships between them.

Enterprise readiness assessment

An assessment that describes the enterprise is prepared to accept the change associated with a solution and is able to use it effectively.

Entity-relationship diagram

A graphical representation of the entities relevant to a chosen problem domain and the relationships between them.

**Estimate** 

A quantitative assessment of a planned outcome, resource requirements, and schedule where uncertainties and unknowns are systematically factored into the assessment.

**Evaluation** 

The systematic and objective assessment of a solution to determine its status and efficacy in meeting objectives over time, and to identify ways to improve the solution to better meet objectives.

Event (business analysis)

An occurrence or incident to which an organizational unit, system, or process must respond.

**Evolutionary** prototype

A prototype that is continuously modified and updated in response to feedback from stakeholders.



## **Evolutionary** prototype

A prototype that is continuously modified and updated in response to feedback from stakeholders.

### **Experiment**

Elicitation performed in a controlled manner to make a discovery, test a hypothesis, or demonstrate a known fact.

#### **External interface**

An interaction that is outside the proposed solution. It can be another hardware system, software system, or a human interaction with which the proposed solution will interact.



#### **Facilitation**

The art of leading and encouraging people through systematic efforts toward agreed-upon objectives in a manner that enhances involvement, collaboration, productivity, and synergy.

### **Fact Finding**

Process to determine the requirements of a system's end users. The classical ways include interviews, questionnaires, existing documents, literature search and observations of the existing system.

### Feasibility report

Evaluation analysis of a proposed system based on system analysis. Usually contains a cost benefits analysis, identified behavior and estimated time frame with identified difficulties.

### **Feasibility study**

An evaluation of proposed alternatives to determine if they are technically, organizationally, and economically possible within the constraints of the enterprise, and whether they will deliver the desired benefits to the enterprise.

#### **Feature**

A distinguishing characteristic of a solution that implements a cohesive set of requirements and which delivers value for a set of stakeholders.

### Fishbone diagram

A diagramming technique used in root cause analysis to identify underlying causes of an observed problem, and the relationships that exist between those causes. Also known as an Ishikawa or cause-and- effect diagram.

### Focus group

A group formed to to elicit ideas and attitudes about a specific product, service, or opportunity in an interactive group environment. The participants share their impressions, preferences, and needs, guided by a moderator.



#### Force field analysis

A graphical method for depicting the forces that support and oppose a change. Involves identifying the forces, depicting them on opposite sides of a line (supporting and opposing forces) and then estimating the strength of each set of forces.

## Functional requirement

A capability that a solution must have in terms of the behaviour and information the solution will manage.



#### Gap analysis

A comparison of the current state and desired future state of an enterprise in order to identify differences that need to be addressed.

## Governance process (change)

A process by which appropriate decision makers use relevant information to make decisions regarding a change or solution, including the means for obtaining approvals and priorities.

#### GUI

**Graphical User Interface** 

## Guideline (business analysis)

An instruction or description on why or how to undertake a task.



## Horizontal prototype

A prototype that is used to explore requirements and designs at one level of a proposed solution, such as the customer-facing view or the interface to another organization.



### Impact analysis

An assessment of the effects a proposed change will have on a stakeholder or stakeholder group, project, or system.

# Implementation subject matter expert

A stakeholder who has specialized knowledge regarding the implementation of one or more solution components.

#### Indicator

A specific numerical measurement that indicates progress toward achieving an impact, output, activity, or input.



#### **Initiative**

A specific project, program, or action taken to solve some business problem(s) or achieve some specific change objective(s).

### Input (business analysis)

Information consumed or transformed to produce an output. An input is the information necessary for a task to begin.

#### Inspection

A formal review of a work product by qualified individuals that follows a predefined process, and uses predefined criteria, for defect identification and removal.

#### Interface

A shared boundary between any two persons and/or systems through which information is communicated.

#### Interoperability

Ability of systems to communicate by exchanging data or services.

#### Interview

Eliciting information from a person or group of people in an informal or formal setting by asking relevant questions and recording the responses.

## Iteration (business analysis)

A single instance of progressive cycles of analysis, development, testing, or execution.



## Knowledge area (business analysis)

An area of expertise that includes several specific business analysis tasks.



## Lessons learned process

A process improvement technique used to learn about and improve on a process or project. A lessons learned session involves a special meeting in which the team explores what worked, what didn't work, what could be learned from the just-completed iteration, and how to adapt processes and techniques before continuing or starting anew.

### Life cycle

A series of changes an item or object undergoes from inception to retirement.

### Literature search

Establish a basis for a developer to construct a new system to gain experience from other previous results.





#### **Matrix**

A textual form of modelling used to represent information that can be categorized, cross-referenced, and represented in a table format.

#### Metadata

A description of data to help understand how to use that data, either in terms of the structure and specification of the data, or the description of a specific instance of an object.

#### Methodology

A body of methods, techniques, procedures, working concepts, and rules used to solve a problem.

#### Metric

A quantifiable level of an indicator measured at a specified point in time.

#### Mission statement

A formal declaration of values and goals that expresses the core purpose of the enterprise.

#### Model

A representation and simplification of reality developed to convey information to a specific audience to support analysis, communication, and understanding.

### Monitoring

Collecting data on a continuous basis from a solution in order to determine how well a solution is implemented compared to expected results.



#### Need

A problem or opportunity to be addressed.

## Non-functional requirement

A type of requirement that describes the performance or quality attributes a solution must meet. Non-functional requirements are usually measurable and act as constraints on the design of a solution as a whole.





## Observation (business analysis)

Studying and analyzing one or more stakeholders in their work environment in order to elicit requirements.

## Online analytical processing (OLAP)

A business intelligence approach that allows users to analyze large amounts of data from different points of view.

### **Operating system**

Software that controls the execution of programs and that may provide services such as resource allocation scheduling, input/output control and data management.

## Operational support

A stakeholder who is responsible for the day-to-day management and maintenance of a system or product.

### Organization

An autonomous group of people under the management of a single individual or board, that works towards common goals and objectives.

## Organizational capability

A function inside the enterprise, made up of components such as processes, technologies, and information and used by organizations to achieve their goals.

### **Organizational unit**

Any recognized association of people within an organization or enterprise.



#### **Peer review**

A formal or informal review of a work product to identify errors or opportunities for improvement.

#### Plan

A detailed scheme for doing or achieving something usually comprising a set of events, dependencies, expected sequence, schedule, results or outcomes, materials and resources needed, and how stakeholders need to be involved.

## Predictive approach

An approach where planning and baselines are established early in the life cycle of the initiative in order to maximize control and minimize risk.

#### **Prioritization**

Determining the relative importance of a set of items in order to determine the order in which they will be addressed.



#### **Problem statement**

System inadequacies based on a system investigation. System analysis uses system investigation to determine where the problems exist in an attempt to fix the existing system.

#### **Process**

A set of activities designed to accomplish a specific objective by taking one or more defined inputs and turning them into defined outputs.

#### **Process model**

A set of diagrams and supporting information about a process and factors that could influence the process. Some process models are used to simulate the performance of the process.

## Product (business analysis)

A solution or component of a solution that is the result of an initiative.

### **Product backlog**

A set of user stories, requirements, or features that have been identified as candidates for potential implementation, prioritized, and estimated.

## Product vision statement

A brief statement or paragraph that describes the goals of the solution and how it supports the strategy of the organization or enterprise.

### **Project**

A temporary endeavour undertaken to create a unique product, service, or result.

### **Project manager**

A stakeholder who is responsible for managing the work required to deliver a solution that meets a business need, and for ensuring that the project's objectives are met while balancing the project constraints, including scope, budget, schedule, resources, quality, and risk.

### **Project scope**

The work that must be performed to deliver a product, service, or result with the specified features and functions.

### **Proof of concept**

A model created to validate the design of a solution without modelling the appearance, materials used in the creation of work, or processes and workflows ultimately used by the stakeholders.

### **Prototype**

A partial or simulated approximation of the solution for the purpose of eliciting or verifying requirements with stakeholders.

### **Prototyping**

The construction of a simple version of a system in the design stage, showing the user interface but without the full processing behind it.





#### Quality

The degree to which a set of inherent characteristics fulfills needs.

#### **Quality assurance**

A set of activities performed to ensure that a process will deliver products that meet an appropriate level of quality.

#### **Quality attributes**

A set of measures used to judge the overall quality of a system.

#### Questionnaire

A set of defined questions, with a choice of answers, used to collect information from respondents.



#### **RACI** matrix

Responsible, accountable, consulted, and informed matrix.

#### Regulator

A stakeholder from outside the organization who is responsible for the definition and enforcement of standards.

### Repository

A real or virtual facility where all information on a specific topic is stored and is available for retrieval.

## Request for information (RFI)

A formal elicitation method intended to collect information regarding a vendor's capabilities or any other information relevant to a potential upcoming procurement.

## Request for proposal (RFP)

A requirements document issued when an organization is seeking a formal proposal from vendors. An RFP typically requires that the proposals be submitted following a specific process and using sealed bids which will be evaluated against a formal evaluation methodology.

## Request for quote (RFQ)

A procurement method of soliciting price and solution options from vendors.

## Request for tender (RFT)

An open invitation to vendors to submit a proposal for goods or services.

#### Requirement

Functional need that a system must be able to perform.



### Requirements allocation

The process of assigning requirements to be implemented by specific solution components.

### Requirements architecture

The requirements of an initiative and the interrelationships between these requirements.

### Requirements artifact

A business analysis artifact containing information about requirements such as a diagram, matrix, document or model.

### Requirements attribute

A characteristic or property of a requirement used to assist with requirements management.

### Requirements defect

A problem or error in a requirement. Defects may occur because a requirement is poor quality (see requirements verification) or because it does not describe a need that, if met, would provide value to stakeholders (see requirements validation).

## Requirements life cycle

The stages through which a requirement progresses from inception to retirement.

## Requirements management

Planning, executing, monitoring, and controlling any or all of the work associated with requirements elicitation and collaboration, requirements analysis and design, and requirements life cycle management.

## Requirements management tool

Special-purpose software that provides support for any combination of the following capabilities: elicitation and collaboration, requirements modelling and/or specification, requirements traceability, versioning and baselining, attribute definition for tracking and monitoring, document generation, and requirements change control.

### Requirements model

An abstract (usually graphical) representation of some aspect of the current or future state.

## Requirements package

A specialized form of a business analysis package primarily concerned with requirements. A requirements package may represent a baseline of a collection of requirements.

## Requirements specification

A document that sets out the customer requirements of a computer system. It is written as a part of the system analysis and can be used later to evaluate the system when implemented.



## Requirements specification

A document that sets out the customer requirements of a computer system. It is written as a part of the system analysis and can be used later to evaluate the system when implemented.

## Requirements traceability

The ability for tracking the relationships between sets of requirements and designs from the original stakeholder need to the actual implemented solution. Traceability supports change control by ensuring that the source of a requirement or design can be identified and other related requirements and designs potentially affected by a change are known.

## Requirements validation

Work done to evaluate requirements to ensure they support the delivery of the expected benefits and are within the solution scope.

## Requirements verification

Work done to evaluate requirements to ensure they are defined correctly and are at an acceptable level of quality. It ensures the requirements are sufficiently defined and structured so that the solution development team can use them in the design, development, and implementation of the solution.

## Requirements workshop

A structured meeting in which a carefully selected group of stakeholders collaborate to define and/or refine requirements under the guidance of a skilled neutral facilitator.

#### Residual risk

The risk remaining after action has been taken or plans have been put in place to deal with the original risk.

# Return on investment (ROI) (business analysis)

A measure of the profitability of a project or investment.

## Risk (business analysis)

The effect of uncertainty on the value of a change, a solution, or the enterprise.

#### **Root cause**

The cause of a problem having no deeper cause, usually one of several possible causes.

## Root cause analysis

A structured examination of an identified problem to understand the underlying causes.





#### Scope

The boundaries of control, change, a solution, or a need.

### Scope model

A model that defines the boundaries of a business domain or solution.

#### **SDLC**

The process of changes which a system passes from its conception to the termination of its use.

#### Secondary actor

An actor external to the system under design that supports the execution of a use case.

### Sequence diagram

A type of diagram that shows objects participating in interactions and the messages exchanged between them.

## Service (business analysis)

The performance of any duties or work for a stakeholder, from the perspective of the stakeholder.

### Software design

The systematic application of scientific and technological knowledge methods and experience to the design, implementation, and testing of software to optimize its production and support.

#### Solution

A specific way of satisfying one or more needs in a context.

## Solution component

A sub-part of a solution that can be people, infrastructure, hardware, software, equipment, facilities, and process assets or any combination of these sub-parts.

### Solution life cycle

The stages through which a solution progresses from inception to retirement.

#### **Solution option**

One possible way to satisfy one or more needs in a context.

## Solution requirement

A capability or quality of a solution that meets the stakeholder requirements. Solution requirements can be divided into two sub-categories: functional requirements and non-functional requirements or quality of service requirements.

### **Solution scope**

The set of capabilities a solution must deliver in order to meet the business need.



#### **Specification**

Set of requirement to be satisfied by a system.

### **Sponsor**

A stakeholder who is responsible for initiating the effort to define a business need and develop a solution that meets that need. They authorize the work to be performed and control the budget and scope for the initiative.

#### Stakeholder

A group or individual with a relationship to the change, the need, or the solution.

## Stakeholder analysis

Identifying and analyzing the stakeholders who may be impacted by the change and assess their impact, participation, and needs throughout the business analysis activities.

#### Stakeholder list

A catalogue of the stakeholders affected by a change, business need, or proposed solution, and a description of their attributes and characteristics related to their involvement in the initiative.

## Stakeholder proxy (business analyst)

The role a business analyst takes when representing the needs of a stakeholder or stakeholder group.

## Stakeholder requirement

A description of the needs of a particular stakeholder or class of stakeholders that must be met in order to achieve the business requirements. They may serve as a bridge between business requirements and the various categories of solution requirements.

#### State diagram

An analysis model showing the life cycle of a data entity or class.

## Stated requirement

A requirement articulated by a stakeholder that has not been analyzed, verified, or validated. Stated requirements frequently reflect the desires of a stakeholder rather than the actual need.

## Statement of work (SOW)

A written description of the services or tasks that are required to be performed.

### **Storyboard**

A diagrammatic form of a prototype showing a planned sequence of screen displays, demonstrating the different paths available to the user.

### **Strategy**

A description of the chosen approach to apply the capabilities of an enterprise in order to reach a desired set of goals or objectives.



### **Supplier**

A stakeholder outside the boundary of a given organization or organizational unit who provides products or services to the organization and may have contractual or moral rights and obligations that must be considered.

Suppliers, inputs, process, outputs, and customers (SIPOC)

A tool used to describe relevant high-level elements of a process. May be used in conjunction with process mapping and 'in/out of scope' tools, to provide additional detail.

Survey

Collecting and measuring the opinions or experiences of a group of people through a series of questions.

**Swimlane** 

A horizontal or vertical section of a process diagram that shows which activities are performed by a particular actor or role.

**System** 

A set of interdependent components that interact in various ways to produce a set of desired outcomes.

System analysis

Tasks which analyze, document, and validate, existing systems and the requirements of the new system.

System documentation

Documentation of the result of the systems analysis stage giving the purpose of the system, the required inputs and outputs, a test plan and the result that are expected.

System requirements

Documented, actionable, measurable, and testable requirements related to identified needs.

Systems analyst

A person who carries out a systematic investigation of a real or planned system to determine the information requirements and processes of the system, and how these relate to each other and to another system.

Systems design

The investigation and recording of existing systems and the design of new systems.

**Systems flowchart** 

A flowchart used to describe a complete data processing system, with the flow of the data through the clerical operations involved, down to the level of the individual programs, but excluding details of such programs.





## Task (business analysis)

A discrete piece of work that may be performed formally or informally as part of business analysis.

### **Technique**

A manner, method, or style for conducting a business analysis task or for shaping its output.

#### **Temporal event**

An event based on time that can trigger the initiation of a process, evaluation of business rules, or some other response.

#### **Tester**

An individual responsible for determining how to verify that the solution meets the requirements defined by the business analyst, and conducting the verification process.

## Throw-away prototype

A prototype used to quickly uncover and clarify requirements or designs using simple tools, sometimes just paper and pencil. It is intended to be discarded when the final system has been developed.

#### Time-box

An agreed-upon period of time in which an activity is conducted or a defined deliverable is intended to be produced.

## Transition requirement

A requirement that describes the capabilities the solution must have and the conditions the solution must meet to facilitate transition from the current state to the future state, but which are not needed once the change is complete. They are differentiated from other requirements types because they are of a temporary nature.



## Unified modelling language™

A notation specified by the Object Management Group for describing software application structure, behaviour, and architecture. It can also be used for describing business processes and data structures. The most common UML® diagrams used by business analysts are use case diagrams, activity diagrams, state machine diagrams (also known as state diagrams), and class diagrams.

#### Use case

A description of the observable interaction between an actor (or actors) and a solution that occurs when the actor uses the system to accomplish a specific goal.



#### Use case diagram

A type of diagram defined by UML® that captures all actors and use cases involved with a system or product.

## User acceptance test (UAT)

Assessing whether the delivered solution meets the needs of the stakeholder group that will be using the solution. The assessment is validated against identified acceptance criteria.

#### **User interface**

Hardware, software, or both, that allow a user to interact with and perform operations on a system, program or device.

#### **User story**

A small, concise statement of functionality or quality needed to deliver value to a specific stakeholder.



## Validated requirement

A requirement that has been reviewed and is determined to support the delivery of the expected benefits, and is within the solution scope.

## Validation (business analysis)

The process of checking that a deliverable is suitable for its intended use.

## Value (business analysis)

The worth, importance, or usefulness of something to a stakeholder in a context.

## Value stream mapping

A complete, fact-based, time-series representation of the stream of activities required to deliver a product or service.

## Verification (business analysis)

The process of determining that a deliverable or artifact meets an acceptable standard of quality.

## Verified requirement

A requirement that has been reviewed and is determined to be defined correctly, adheres to standards or guidelines, and is at an acceptable level of detail.

### **Vertical prototype**

A prototype that is used to drill down into a proposed solution to uncover requirement and design considerations through multiple layers of a solution that are not easily understood or that are not discernible on the surface. It may include interaction between several solution components.

### **Viewpoint**

A set of conventions that define how requirements will be represented, how these representations will be organized, and how they will be related.





### Walkthrough

A review in which participants step through an artifact or set of artifacts with the intention of validating the requirements or designs, and to identify requirements or design errors, inconsistencies, omissions, inaccuracies, or conflicts.

## Work breakdown structure (WBS)

A deliverable-oriented hierarchical decomposition of the work to be executed to accomplish objectives and create the required deliverables. It organizes and defines the total scope of the project.

# Work product (business analysis)

A document or collection of notes or diagrams used by the business analyst during the requirements development process.

#### Workshop

A facilitated and focused event attended by key stakeholders for the purpose of achieving a defined goal.

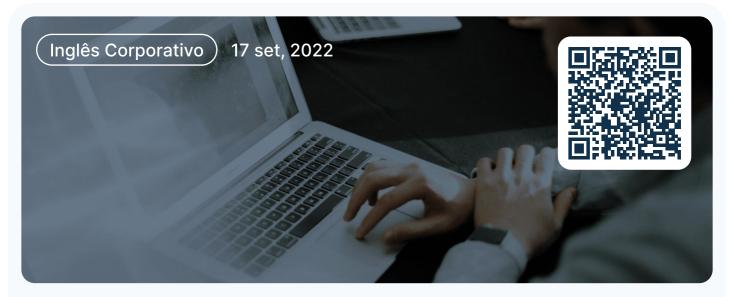
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### Vânia Paula de Freitas

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