

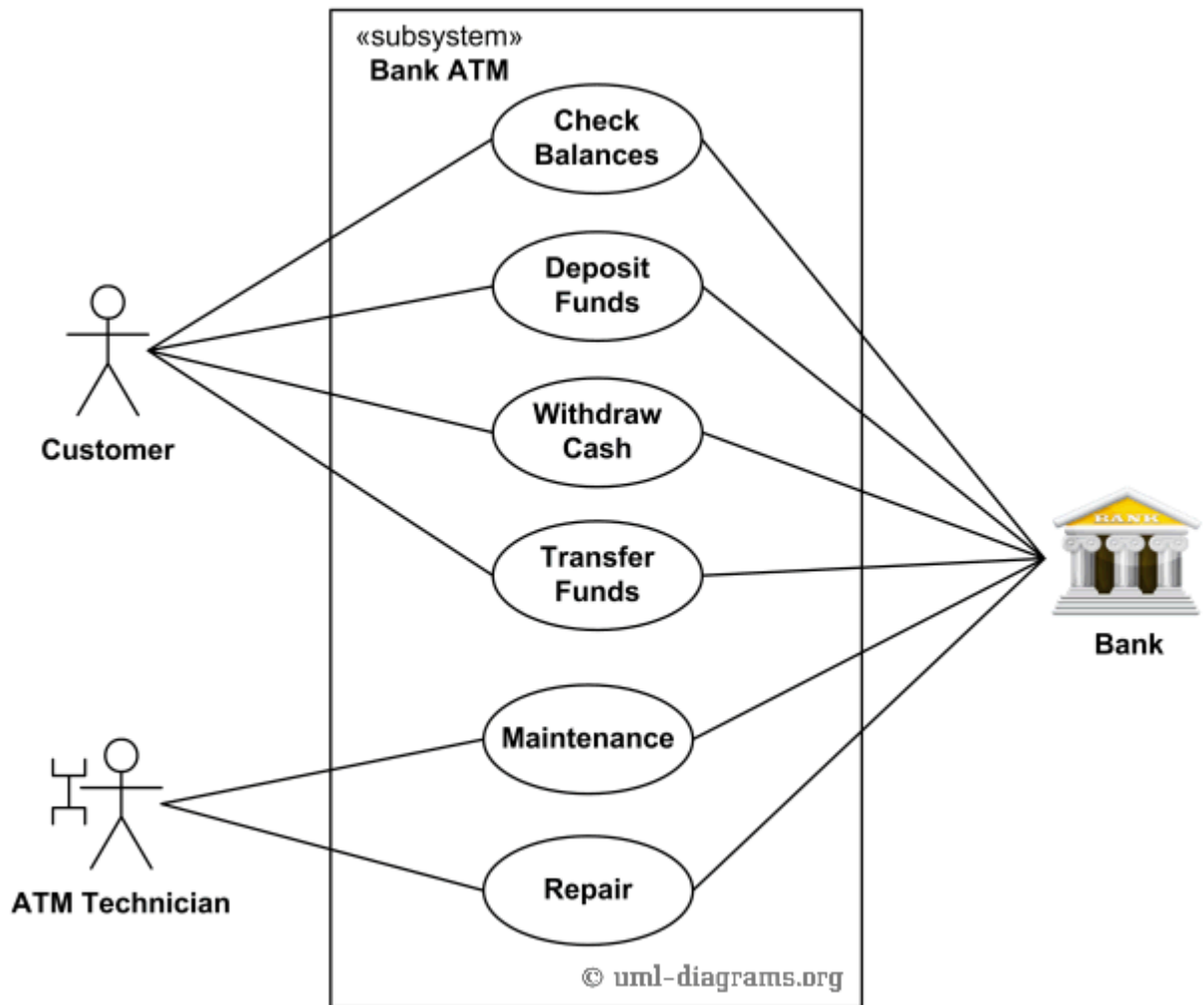
Business Analysis Glossary - from A to Z

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A

USE Case Diagram:

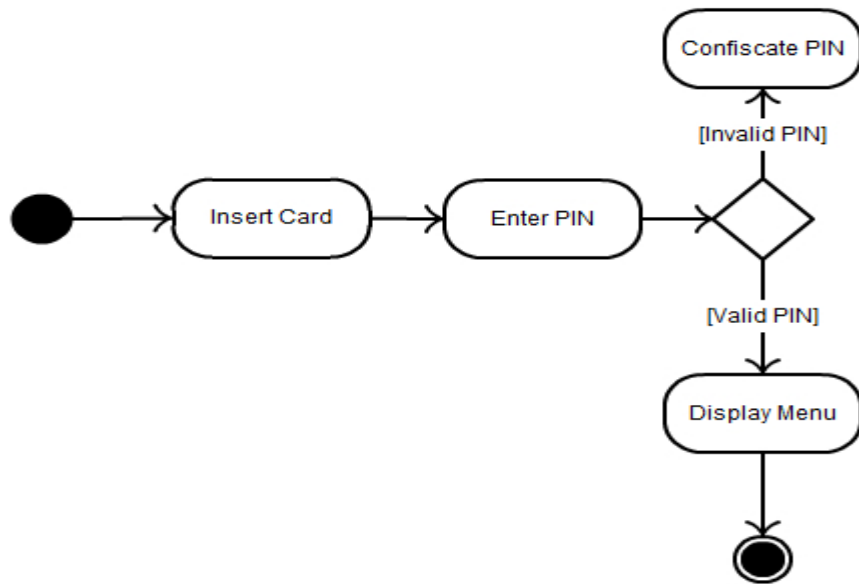
- Actors. An actor is a person, organization, or external system that plays a role in one or more interactions with your system.
- user's interaction with the system that shows the relationship between the user and the different **use** cases in which the user is involved.



Activity Diagram: *are graphical representations of workflows of stepwise activities and actions with support for choice, iteration and concurrency*

Difference between Activity and Sequence Diagram.

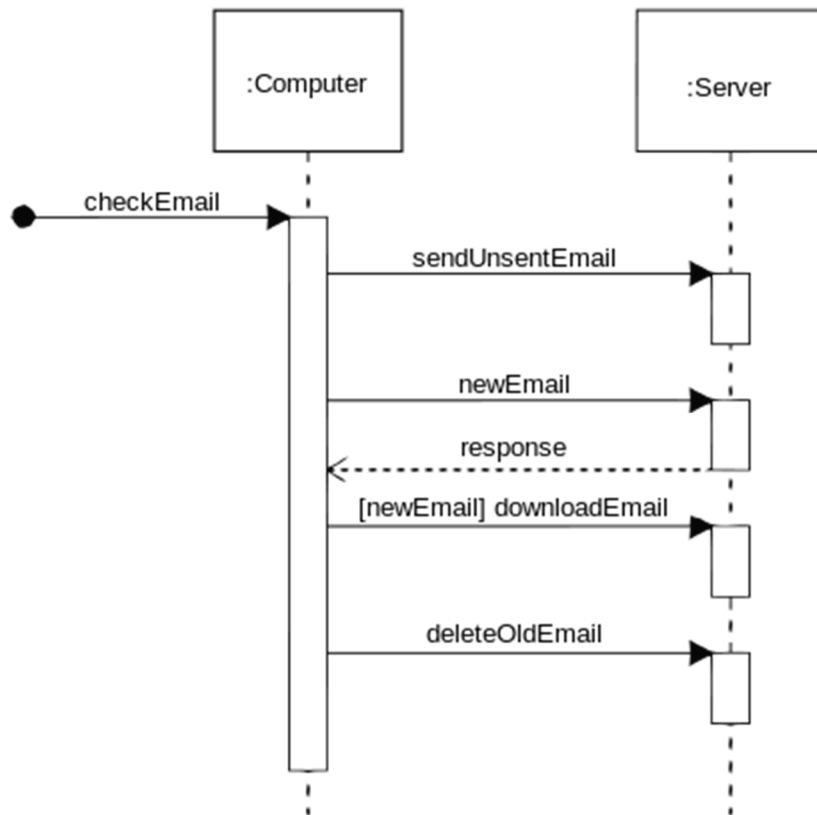
Activity diagram: captures the process flow. They are used for functional modeling.



[online diagramming & design] createely.com

Sequence diagram:

- the track the interaction between the objects. They are used for dynamic.
- focuses on identifying the behavior within your system



Agile (able to move quickly and easily.) myths

Agile is a general term and **conceptual framework** used to describe a number of “**light-weight**” **methodologies**, such as **Extreme Programming (XP)**, **SCRUM**, and **Rapid Application Development (RAD)**, which exhibit a series of common characteristics. Some of these characteristics include iterative analysis and development, time-boxed iterations of a predefined length, delivery of the most critical features and functions first, delivery of a complete build with an initial set of limited features within a few months (often 1-2 months), small cross-functional teams usually of 6-9 team members, daily team communication meetings, and reduced levels of documentation.

Agile.

Ability to change the direction of body in efficient and effective manners to required the combination.

- Balanced
- Speed
- Strength
- Coordination

Under the Umbrella of Agile

Scrum, XP hybrid, Kanban, Scrumban

Scrum is the most popular now a days and using 52%

- **Value = Benefits / Cost**
- **Waste: rates of feature usage in software project, Never used = 44%**
- Extreme programming (XP) is a [software development methodology](#) which is intended to improve software quality and responsiveness to changing customer requirements.
- Kanban is a system to control the logistical chain from a production point of view, and is an inventory control system. Kanban was developed by Taiichi Ohno, an industrial engineer at Toyota, as a system to improve and maintain a high level of production. Kanban is one method to achieve JIT.(just in time)

Alternative Flow

An **alternate flow** describes a **use case scenario** other than the basic flow that results in a user completing his or her goal. It is often considered to be an optional flow and implies that the user has chosen to take an alternative path through the system.

Basic Flow: Enter Order:

1. The user Finds a Customer Record. 2. The user enters the item number into the system. 3. The system displays ...

Alternate Flow: Handle Invalid Item Number:

1. If at 2.in 'Enter Order', the item number is found to be invalid:
2. The system displays the message "Invalid item number, please re-enter"
3. The use case restarts at 2. in 'Enter Order'

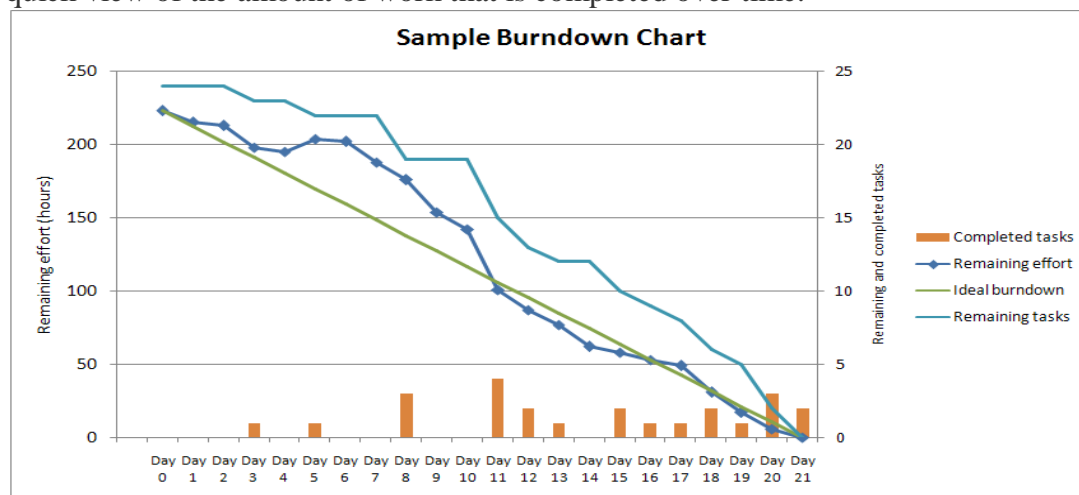
B

Business Analysis Planning and Monitoring (BABOK Knowledge Area)

A BABOK 2.0 Knowledge Area that describes how a business analyst determines which activities will be needed to complete the business analysis effort. The tasks within this knowledge area govern the business analysis tasks in all of the other knowledge areas.

Burndown Chart (work completed)

A Burndown Chart is a tool used by multiple software engineering methods to track the progress of **work completed**. It compares the **amount of work remaining** (typically measured along the vertical axis) against time (measured along the horizontal axis). The burndown chart gives a quick view of the amount of work that is completed over time.



Business Entity Model

A business entity model is a **logical model** that **documents the entities**(units) or things, that a business **or business process** uses and **interacts with in order to accomplish its business** activities and goals. In addition to documenting entities, a business entity model may capture the attributes of an entity, relationships between entities, and cardinality information. Many business entity models are created in the form of a UML class diagram.

C

CBAP

See Certified Business Analysis Professional

CCBA

See Certification of Competency in Business Analysis

Certification of Competency in Business Analysis

The Certification of Competency in Business Analysis (CCBA) is the designation given to those professionals who sit for and pass the CCBA exam. The CCBA is an intermediate stepping stone for those business analysts who do not meet the more stringent requirements of the CBAP.

More info on [CCBA - Certification of Competency in Business Analysis](#)

Certified Business Analysis Professional

The Certified Business Analysis Professional certification (CBAP certification) is the designation given to those professionals who sit for and pass the CBAP exam. For this reason, the term CBAP is often used as a shorthand term to refer to the CBAP exam itself. More info

on [CBAP - Certified Business Analysis Professional](#)

Class Diagram

A class diagram is a UML diagram that describes the structure of a system by showing the classes of a system, the attributes and operations that belong to each class, and the relationships between the classes.

Concentration Ratio (Market share)

CR :competition that exists within a market or industry in which a company operates. measure of the total output produced in an industry by a given number of firms in the industry

$$CR = \text{Total OutPut Production} / \# \text{ of firm in the industries}$$

Communication Diagram: (object /system's interaction and Sequence)

A communication diagram is a UML 2.0 diagram which models the objects or parts of a system, the **interactions (or messages) between them**, and the **sequence in which these interactions occur**. A communication diagram models this as a free-form arrangement of objects or parts of a system. The free-form arrangement of objects lends itself well to showing the sequenced interactions in a more compact space.

Context Diagram

A context diagram is a special form of a data flow diagram that represents an entire system as a single process and **highlights the interactions between the system** being analyzed and other systems or people that interact with it.

Convergent Thinking .(coming closer together, especially in characteristics or ideas)
Convergent thinking is the process of focusing on a few sets of ideas and evaluating them based on selection criteria in order to narrow down the available options.

Cost Benefit Analysis

Cost Benefit Analysis is a technique used to determine if the financial benefits of a project outweigh the associated cost of undertaking the project in the **first place**. For a short term project where the benefit may be an immediate one-time cash windfall this may be as simple as subtracting the total of all project costs from the total of all project benefits. If the total is positive, then the project may be worth completing.

CRUD

CRUD stands for: Create, Read, Update, Delete. These are the four basic functions that can be performed when working with data in a persistent storage.

D

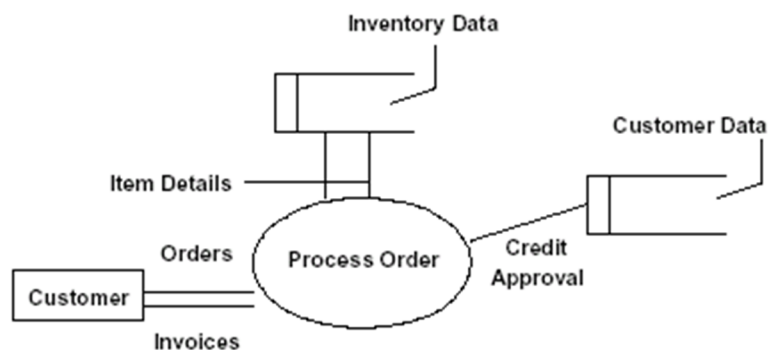
Database View

A database view is a stored query that returns data from one or more database tables. The stored query, or view, is a virtual table. Once you have defined a view, you can reference it just as you would any other table in a database. Since the view is the result of a stored query, it does not contain a copy of the data itself. Instead, it references the data in the underlying base tables.

Data Flow Diagram

A data flow diagram models the system as a **network of functional processes and its data**. It documents the system's processes, data stores, flows which carry data, and terminators which are the external entities with which the system communicates.

Example of Data Flow Diagram :



NOTE : Using Physical and Logical Data Flow Diagrams :

Decision Table

A decision table is an unambiguous(**decided**) and compact(**compressed**) technique for modeling complicated logic using several sets of conditions in a tabular format. It is often **used to model logic** that may otherwise **require many sentences or paragraphs to convey**.

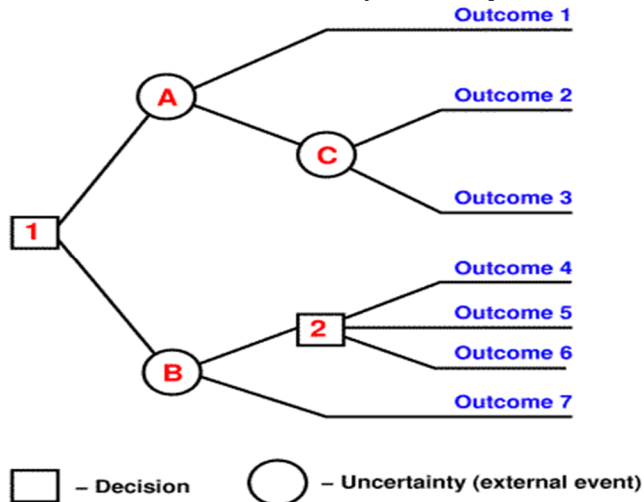
 **Table 5-4: A decision table with multiple actions**

	Rule 1	Rule 2	Rule 3	Rule 4
Conditions				
§ Condition-1	Yes	Yes	No	No
§ Condition-2	Yes	No	Yes	No
Actions				
§ Action-1	Do X	Do Y	Do X	Do Z
§ Action-2	Do A	Do B	Do B	Do B

2

Decision Tree

A decision tree graphically represents a series of decision points with branching occurring at each decision point forming a treelike structure. A decision tree maps out each possible outcome and will often also include the probability of each outcome.



Discount Rate / net present value / interest rate

The discount rate is the percentage rate used to reduce future cash flow values for each year in the future that they occur. This is necessary to determine what the comparable cash flow amount would be in present terms.

Divergent Thinking (many potential solutions)

method used to generate creative ideas by exploring many possible solutions

Or Divergent (different) thinking is the process of generating **many ideas** that branch out from an original topic or concept.

E

Elicitation (BABOK Knowledge Area)

A BABOK 2.0 Knowledge Area that describes the steps required to elicit requirements from stakeholders. It includes preparing for elicitation by identifying a combination of techniques that will be used, conducting the elicitation using the identified techniques, documenting the elicitation results, and confirming what has been documented.

Enterprise Analysis (BABOK Knowledge Area)

A BABOK 2.0 Knowledge Area that describes the business analysis activities required to compare the needs of the business against the current capabilities of the business and identify opportunities for improvement. Then, based on this information, the analyst can determine which solutions should be selected to resolve the issue.

Stakeholder Analysis.

Entity Relationship Diagram

An entity-relationship diagram models the **relationships between entities(units) in a database**. Standard symbols are used to represent different types of information. The conventional notation uses rectangles to represent entities (nouns), diamonds to represent relationships (verbs) and ovals to represents attributes of entities. Other notations are sometimes used.

Exception Flow

A use case exception flow is an unintended path through the system **usually as a result of missing information or system availability problems**. Exception flows represent an undesirable path to the user. However, even though the exception flow has occurred the system will ideally react in a way that recovers the flow and provide some useful information to the user.

F

Fact Model

A fact model is a static model which structures business knowledge about core business concepts and business operations. It is sometimes called a business entity model. The fact model focuses

on the core business concepts (called terms), and the logical connections between them (called facts). The facts are typically verbs which describe how one term relates to another.

Fishbone Diagram

A fishbone diagram is a problem-analysis tool that derives its name from its shape which resembles the skeleton of a fish. Developed by Dr. Kaoru Ishikawa, a Japanese quality control statistician, the fishbone diagram is a systematic way of looking at an effect and identifying and capturing the causes that contribute and result in that particular effect. For this reason, it is sometimes referred to as a cause and effect diagram.

Financial Ratio Analysis (company financial condition)

Financial Ratio Analysis is the evaluation and interpretation of a company's financial data using standard financial ratios or accounting ratios to determine a company's financial state or condition. A financial ratio or accounting ratio is a ratio of two values that are taken for a company financial statements (Balance Sheet, Income Statement, Statement of CashFlows, Statement of Retained Earnings).

G

Gap Analysis

Gap analysis is the process of comparing two things in order to determine the difference or "gap" that exists between them. Most often gap analysis is used to compare **two different status** of something; the **current status and the future status**.

H

Herfindahl Hirschman Index (there were only one firm in an industry, that firm would have 100% market share, and the **HHI** would equal 10,000 (100^2), indicating a monopoly)

The Herfindahl Hirschman Index (HHI) is a measurement used to understand the level of **competition that exists within a market or industry**, as well as give an indication of how the distribution of market share occurs across the companies included in the index.

HTML

See HyperText Markup Language

HyperText Markup Language

HyperText Markup Language or HTML is used to define the **structure of webpages**. Markup languages describe annotations that are added to any document that are distinguishable from the original text of the document. In the case of HTML, these annotations are HTML tags which are

used to define the structure of a webpage such as headings, paragraphs, lists, tables, data, quotes, and more.

J

Joint Application Development

Joint Application Development is a requirements-definition and **software system design methodology in which stakeholders, subject matter experts (SME)**, end-users, business analysts, software architects and developers attend collaborative workshops (called JAD sessions) to work out a system's details.

K

Knowledge Areas

Categories of related information and tasks that a business analyst must understand and apply. This term is most often used by the BABOK (Business Analysis Body of Knowledge).

L

Logical Data Dictionary

A centralized repository of logical data elements and other metadata about them. This may include the meaning of a piece of data, relationships to other logical data, origin, usage, type and length. Logical data usually models the real world far more closely than of physical data since physical data and its structure is usually optimized for system performance purposes.

M

Management By Walking Around

Management By Walking Around (MBWA) is a popular management technique used by top-level managers in traditional brick and mortar businesses where managers walk around and observe the work, culture, atmosphere, and problems that may exist.

Meta-Data Repository

See Logical Data Dictionary

Model-Based-Management

Model-Based Management refers to the activity of managing and making informed decision regarding the future direction of a business, process, or system(s) based on information gleaned and understood from models that document the current state.

Model-View-Controller

Model-View-Controller, or MVC, is a design and architectural pattern used to ensure that the

modeling of the domain, the presentation information, and the actions taken based on user input are loosely coupled and maintained as separate classes.

N

Non-Functional Requirement

Non-functional requirements are characteristics of a system or solution which describe non-behavioral characteristics or qualities of a system. Non Functional Requirements have also been called the 'ilities': usability, reliability, interoperability, scalability, extensibility, etc. Non-functional requirements are also commonly referred to as quality of service (QoS) requirements or service-level requirements. More info on [non-functional requirements](#).

O

P

PDCA Method

A 4-step, iterative method commonly used for Business Process Improvement. PDCA stands for Plan, Do, Check, Act. It is used to create a feedback loop based on measurable results and make incremental changes and improvements over time.

Primary Actor

Primary actors are people, or at times even other systems, that require the assistance of the system under consideration to achieve their goal. They initiate the use cases of the system (business processes or application functionality). A use case within the system may have more than one primary actor, since more than one type of role may initiate the processes or functionality of the system.

Problem Domain

Problem Domain describes the area undergoing analysis, and includes everything that needs to be understood in order to achieve the goal of the project. This may include all inputs and outputs of a process, any related systems, and internal and external project stakeholders.

Pseudocode

Pseudocode is a notation that combines some of the structure of a programming language, such as IF-ELSE and DO WHILE constructs, with a natural language, such as plain English. This allows writers of specification to eliminate a lot of the ambiguity that typically arises when trying to describe logic and computations using strictly a natural language.

Q

Quality Assurance

Quality Assurance is about Process. It describes the proactive method of establishing a process that is capable of producing a product or deliverable that is error or defect free.

Quality Control

Quality Control is about Products or Deliverables. It describes checking a final product or deliverable to ensure that it is defect or error free and meets specifications.

R

Requirement

A documented representation of a condition or capability. Specifically, one that is needed by a stakeholder to solve a problem or achieve an objective, or one that must be met or possessed by a solution to satisfy a contract, standard, specification.

Requirements Analysis (BABOK knowledge area)

A BABOK 2.0 knowledge area that describes the activities and methods used to analyze stated requirements and transform them into a potential solution which possesses the capabilities that will fulfill the stakeholder needs.

Requirements Management and Communication (BABOK Knowledge Area)

A BABOK 2.0 knowledge area that describes what is involved in managing and articulating requirements to a wide variety of stakeholders. It includes understanding the link between business or project objectives and the specific requirements that comes from them such that any change or clarification in the objectives will result in a revised set of requirements that reflect the business need.

Requirements Traceability Matrix

A Requirements Traceability Matrix is a tabular format that provides the ability to follow and audit the life of a requirement, in both a forward and backward direction: from its origins, through its realization in the design and functional specifications, to its eventual development and deployment and use, and through subsequent rounds of modification and refinement.

Role

A role describes a related set of activities that a single person may regularly undertake in order to partially or fully complete a process or goal. A role is different than a job title. Roles, reporting structures, and other parameters may all be used in conjunction to define a job title.

RuleSpeak

RuleSpeak is a set of guidelines for expressing business rules using a natural language (such as English). Rulespeak is not a language or syntax itself but rather a set of guidelines to facilitate the creation of business rules that are concise, consistent, and less ambiguous. RuleSpeak is fully consistent with the OMG's SBVR standard.

S

Scrum

Scrum is one of several light-weight agile methods that use an iterative and incremental approach

for the development of information systems. The Scrum method brings a small team together to work on a specified set of features over a short period called a sprint (often 30-days).

Secondary Actor

A secondary actor is a person, business processes, or applications that provides a specific result or information to a use case in order for the end goal of the use case to be achieved. A secondary actor never initiates the use case. It is invoked by the system's use cases in order to obtain the required information or result. There may be many secondary actors for a given system.

Sequence Diagram

A sequence diagrams is a UML diagram that depicts interactions among various application components or participants over time, including but not limited to system objects, actors, and other systems or services, in order to accomplish a task.

SIPOC Diagram

The SIPOC diagram is a tool that is used to outline the scope of a process improvement initiative (often as part of a Six Sigma improvement project). The tool captures all of the relevant elements of the process under consideration. The diagram's name is an acronym for the elements that need to be identified and documented. (S) – Suppliers: Who supplies the inputs to the process under consideration, (I) – Inputs: What are the inputs to the process, (P) – Process: What are the steps of the process that is being improved upon, O – Outputs: What are the outputs of the process, C – Customers: Who are the customers or beneficiaries of the outputs of the process.

Six Sigma

Six Sigma is a process improvement methodology. It is structured into 5 phases which can be iterated to continually improve key processes and deliver greater efficiencies and success within an organization. These 5 phases are Define, Measure, Analyze, Improve, and Control.

Solution Assessment and Validation (BABOK knowledge area)

A BABOK 2.0 knowledge area which describes the activity of determining how closely a solution meets the original stakeholder and solution requirements as well as describe the activities that the business analyst should complete to ensure the successful implementation of solution.

Stakeholder Analysis

Stakeholder Analysis is the process of identifying project stakeholders, how their needs may impact the project, and the contributions that the stakeholders will make to the requirements elicitation process.

Structured English

See Pseudocode.

SWOT Analysis

SWOT Analysis is a strategic planning technique used to assess the internal and external

environment in which a company operates and competes. Internal environmental factors are classified into strengths and weaknesses, while external environmental factors are classified into opportunities and threats.

T

U

UI Design Pattern

See User Interface Design Pattern.

Use Case Diagram

A use case diagram is a UML diagram that provides a high-level graphical view of the functionality (use cases) supported by the system and shows which roles (actors) can invoke each use case. This high-level view of the system provides a context for the readers of the more detailed use case specifications.

Use Case Specification

The use case specification provides the details of the functionality that the system will support and describes how the actors will use the system in order to obtain a specific result of value.

User Interface Design Patterns

User Interface Design Patterns (also commonly referred to as Interaction Design Patterns) document and convey robust UI design solutions, that have proven to be successful over time, to common usability requirements. Properly applying UI Design Patterns ensures the UI designer that the application or website will be intuitive and its features and functionality robust.

User Story

A user story (typically used by Agile methodologies) is a high-level requirement containing just enough information to help the team produce a reasonable sizing for the requirement. The user story is generally one to two sentences in the everyday language of the user.

V

View

A view organizes diagrams into logical groups to describe a particular aspect of the system. It is the abstraction of the system organized in such a way as to give a perspective of a related set of concerns.

W

Work Breakdown Structure

The Work Breakdown Structure (WBS) documents the subdivision of tasks and effort required to complete an objective or project. It is most often depicted as a tree structure where high level tasks break down into lower level tasks. Low level tasks are typically grouped in various logical ways such as by system, subsystems, project phase, or a combination of these.

X

XML

XML stands for EXtensible Markup Language. XML was designed to transport and store data. It is a self descriptive markup language. This means that the tags used to describe the content of the XML file are not predefined, but instead the author defines his own tags and document structure.

Y

Z
