Business David Odepidan Gammunity Analysis

REQUIREMENT ANALYSIS & DESIGN DEFINITION BABOK® v3 SERIES, EP 6

Ice-Bracker

Javid Community

Analysis

BAP Exam Blueprint

Knowledge Areas (KA)	% of Questions per KA
1. Business analysis planning and monitoring	14%
2. Elicitation and collaboration	12%
3. Requirements life cycle management	15%
4. Strategy Analysis	15%
5. Requirements analysis and design definition	30%
6. Solution Evaluation	14%

INTRODUCTION

This knowledge area describes the tasks that business analysis professionals perform to structure and organize requirements discovered during elicitation activities, specify and model requirements and designs, validate and verify information, identify solution options that meet business needs, and estimate the potential value that could be realized for each solution option.

Both requirements and designs are important tools used by business analysts to define and guide change. The main difference between requirements and designs is in how they are used and by whom. One person's designs may be another person's requirements. Requirements and designs may be either high-level or very detailed based on what is appropriate.

INTRODUCTION

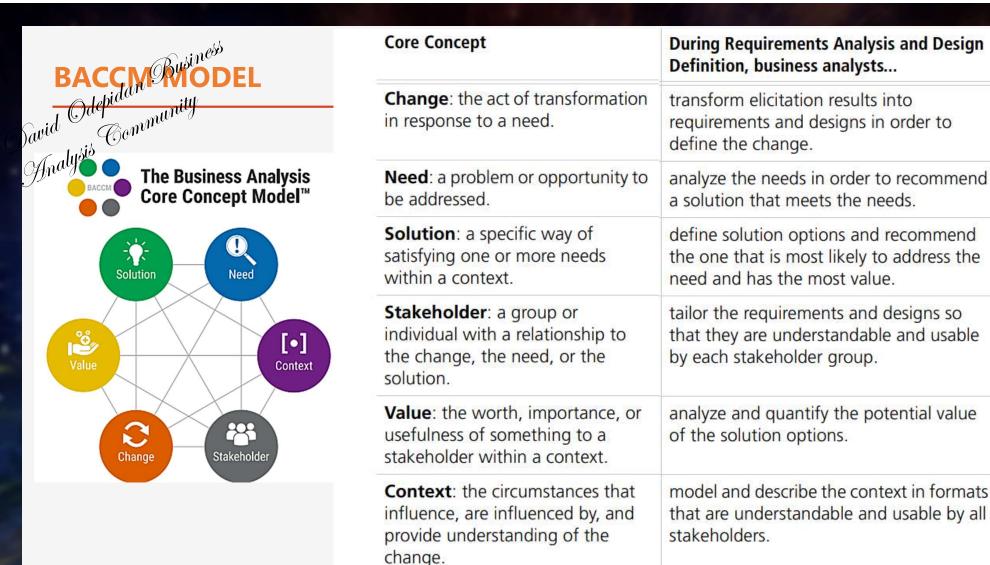
The business analyst's role in modelling needs, requirements, designs, and solutions is instrumental in conducting thorough analysis and communicating with other stakeholders. The form, level of detail, and what is being modelled are all dependent on the context, audience, and purpose.

Business analysts analyze the potential value of both requirements and designs. In collaboration with implementation subject matter experts, business analysts define solution options that can be evaluated in order to recommend the best solution option that meets the need and brings the most value.

Design ption

Jak design option usually consists of many design components, each described by a design of the state of the

- business policies and business rules, business processes to be performed and managed,
- people who operate and maintain the solution, including their job functions and responsibilities
- operational business decisions to be made, software applications and application
 components used in the solution
- organizational structures, including interactions between the organization, its customers,
 and its suppliers



INTROPUCTION

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Requirements Analysis and Design Tasks

Specify and Model Requirements

Describes a set of requirements or designs in detail using analytical techniques.

Verify Requirements

Ensures that a set of requirements or designs has been developed in enough detail to be usable by a particular stakeholder, is internally consistent, and is of high quality.

Validate Requirements

Ensures that a set of requirements or designs delivers business value and supports the organization's goals and objectives.



Structures all requirements and designs so that they support the overall business purpose for a change and that they work effectively as a cohesive whole.

Define Solution Options

Identifies, explores, and describes different possible ways of meeting the need.

Analyze Potential Value and Recommend Solution

assesses the business value associated with a potential solution

Guidelines and Tools

Modelling Notations/Standards: allow requirements and designs to be precisely specified, as appropriate for the audience and the purpose of the models. Modelling Tools software products that facilitate drawing and storing matrices and diagrams to represent requirements.

- Requirements Architecture: the requirements and interrelationships among them can be used to ensure models are complete and consistent.
- Requirements Life Cycle Management Tools: software products that facilitate recording,
 organizing, storing, and sharing requirements and designs.
- Solution Scope: the boundaries of the solution provide the boundaries for the requirements and designs models

Techniques

Acceptance and Evaluation Criteria used to represent the acceptance and evaluation criteria algorithms of requirements.

- Business Capability Analysis used to represent features or functions of an enterprise.
- Business Model Canvas used to describe the rationale for requirements.
- Business Rules Analysis is used to analyze business rules so that they can be specified and modelled alongside requirements.
- Concept Modelling is used to define terms and relationships relevant to the change and the enterprise.
- Data Dictionary is used to record details about the data involved in the change. and usage.

Output Business

In many IT environments, the word 'design' is used specifically for technical designs created by software developers, data architects, and other implementation subject matter experts. All business deliverables are referred to as 'requirements'.

In addition to the models used to represent the requirements, this task also includes capturing information about attributes or metadata about the requirements. The specifying and modelling activities relate to all requirement

types

Verifyjr g requirements

high-quality specification is well-written and easily understood by its intended audience. A high-quality model follows the formal or informal notation standards and effectively represents reality.

The most important characteristic of quality requirements and designs is fitness for use. They must meet the needs of stakeholders who will use them for a particular purpose.

Quality is ultimately determined by stakeholders

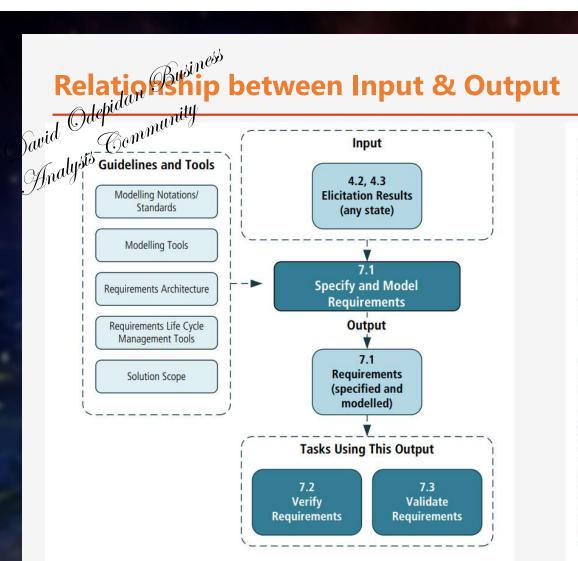
Verification activities are typically performed iteratively throughout the requirements analysis process

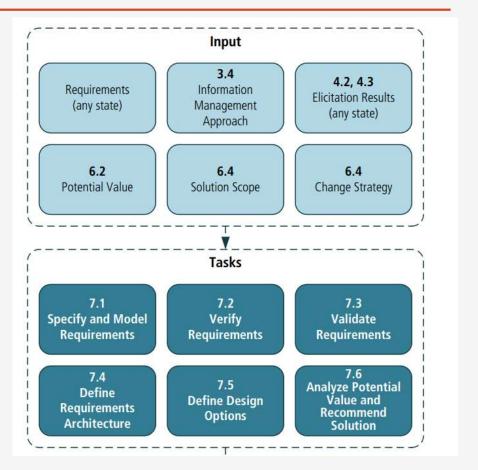
widche Congliance with organizational performance standards for business analysis, for business analysis, such as using the right tools and methods,

- checking for correct use of modeling notation, templates, or forms,
- checking for completeness within each model, ensuring the terminology used in expressing the requirement is understandable to stakeholders and consistent with the use of those terms within the organization
- Comparing each model against other relevant models, checking for elements that are mentioned in one model but are missing in other models, and verifying that the elements are referenced consistently

Business Savid Odepidan Analysis Analysis







Remarks and the second	Relationship between Input & Output Input and Output Relationships Information Management Requirements Requirements Requirements Requirements Potential Solution Change Requirements Design Solution Results (specified and (validated) Value Score Strategy Aphitocolure Outland Resourced)													
Anal	ysw	Information Management I Approach	Requirements	Requirements (prioritized)	Requirements (verified)	Elicitation Results (any state)	Requirements (specified and modelled)	Requirements (validated)	Potential Value	Solution Scope	Change Strategy	Requirements Architecture	Design Options	Solution Recommend
	Specify and Model Requirements and Designs					Input	Output							
	Verify Requirements and Designs				Output		Input							
	Validate Requirements and Designs						Input	Output						
	Define Requirements Architecture	Input	Input							Input		Output		
	Define Design Options			Input				Input			Input	Input	Output	
	Analyze Potential Value and Recommend Solution								Input				Input	Output

Technical and mitty

Data Flow Diagrams: used to visualize data flow requirements.

- Data Modelling: used to model requirements to show how data will be used to meet stakeholder information needs.
- Decision Modelling: used to represent decisions in a model to show the elements required for decision-making.
- Functional Decomposition: used to model requirements to identify constituent parts of an overall complex business function.
- Glossary: used to record the meaning of relevant business terms while analyzing requirements.

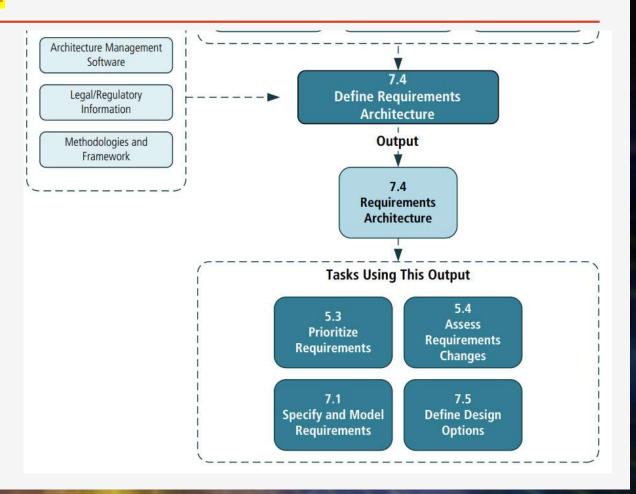


- Interface Analysis: used to model requirements in order to identify and validate inputs and outputs of the solution they are modelling.
- Non-Functional Requirements Analysis: used to define and analyze the quality of service attributes
- Organizational Modelling: used to allow business analysts to model the roles, responsibilities, and communications within an organization.
- Process Modelling: used to show the steps or activities that are performed in the organization, or that must be performed to meet the desired change
- Prototyping: used to assist the stakeholders in visualizing the appearance and capabilities of a planned solution.

Requirements architecture

Javid A requirements architecture fits

the individual models and specifications together to ensure that all of the requirements form a single whole that supports the overall business objectives and produces a useful outcome for stakeholders.



Requirements architecture

Business analysts use a requirements architecture to:

- understand which models are appropriate for the domain, solution scope, and audience,
- organize requirements into structures relevant to different stakeholders,
- illustrate how requirements and models interact with and relate to each other, and show how the parts fit together into a meaningful whole,
- ensure the requirements work together to achieve the overall objectives, and
- make trade-off decisions about requirements while considering the overall objectives







Customer: represents the market segments affected by the requirements and solutions, and will be involved in analyzing the benefit of those requirements and costs of the design options.

- Domain Subject Matter Expert: may be called upon for their domain knowledge to assist in analyzing potential value and benefits, particularly for those requirements where they are harder to identify.
- End User: provides an insight into the potential value of the change.
- Implementation Subject Matter Expert: may be called upon for their expertise in implementing the design options in order to identify potential costs and risks

Stakeholders

Business Analysis

Business Analysis

Bavid Odepidan

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Connect www.davidodebidan.com