



# IndigoCube

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# Can the business analyst be responsible for the system getting hacked?

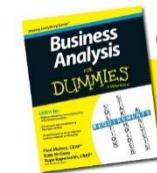
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ISBN-13: 978-1897312568

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# The Word “NON”

- non-adherence
- non-absorbent
- non-payment
- non-professional
- non-compliant
- non-standard
- nonsense



# Definition of Non-Functional Requirements

Non-functional requirements (also known as quality attributes or quality of service requirements) are **often associated with system solutions**, but they also apply more broadly to both **process and people** aspects of solutions. They **augment the functional requirements** of a solution, identify **constraints** on those requirements, or describe **quality** attributes a solution must exhibit when based on those functional requirements. *IIBA BABOK V3.0*

**But they don't come free**



# Why Non-Functional Requirements?

Getting a non-functional requirement wrong can lead to some **very costly rework** or even **cancelled projects** with the knock-on effect that has on reputation etc.

*Peter Cripps*

<https://softwarearchitecturezen.wordpress.com/tag/non-functional-requirements/>



# Triple Constraints: Non-Functional Requirements

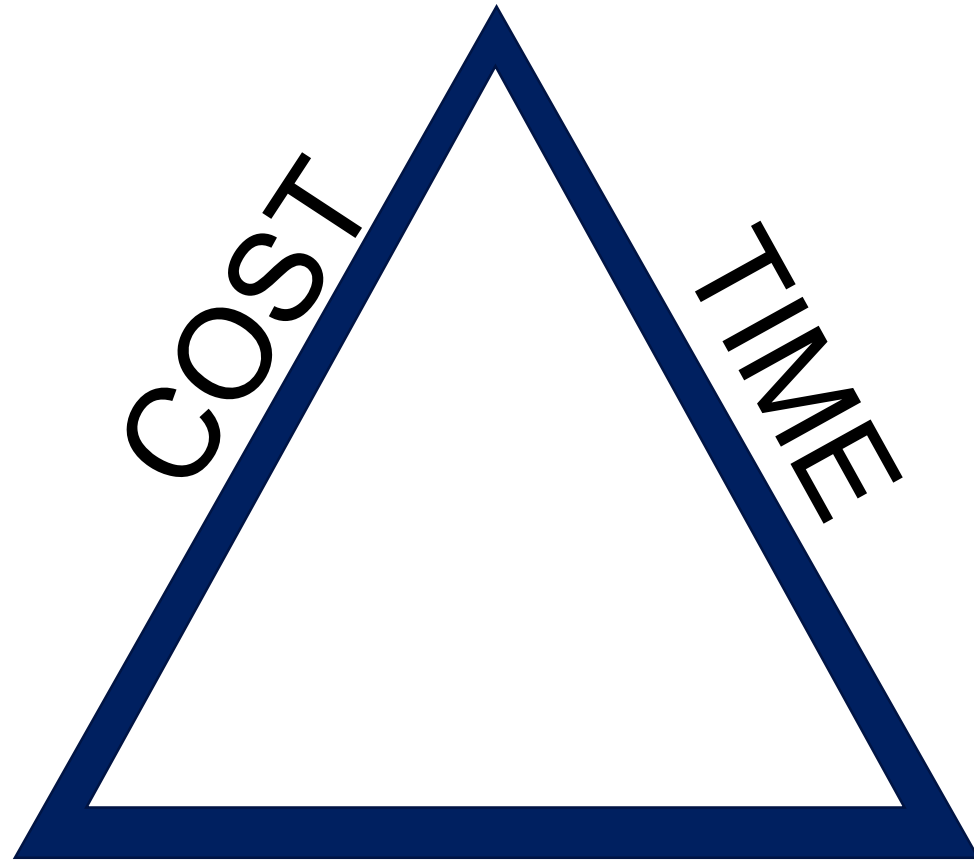
**“THERE’S NO SUCH THING AS A FREE LUNCH.”**

**MILTON FRIEDMAN**

© Lifehack Quotes



# Triple Constraints: Non-Functional Requirements



Quality and Quantity (Non-Functional Requirement)



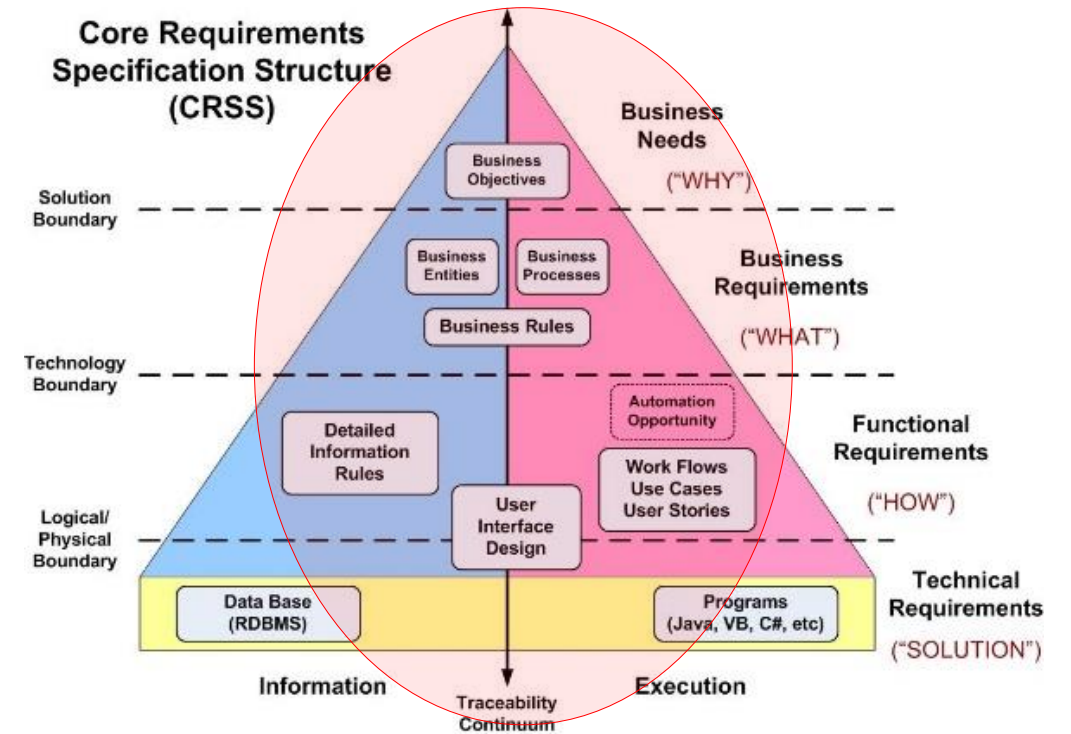
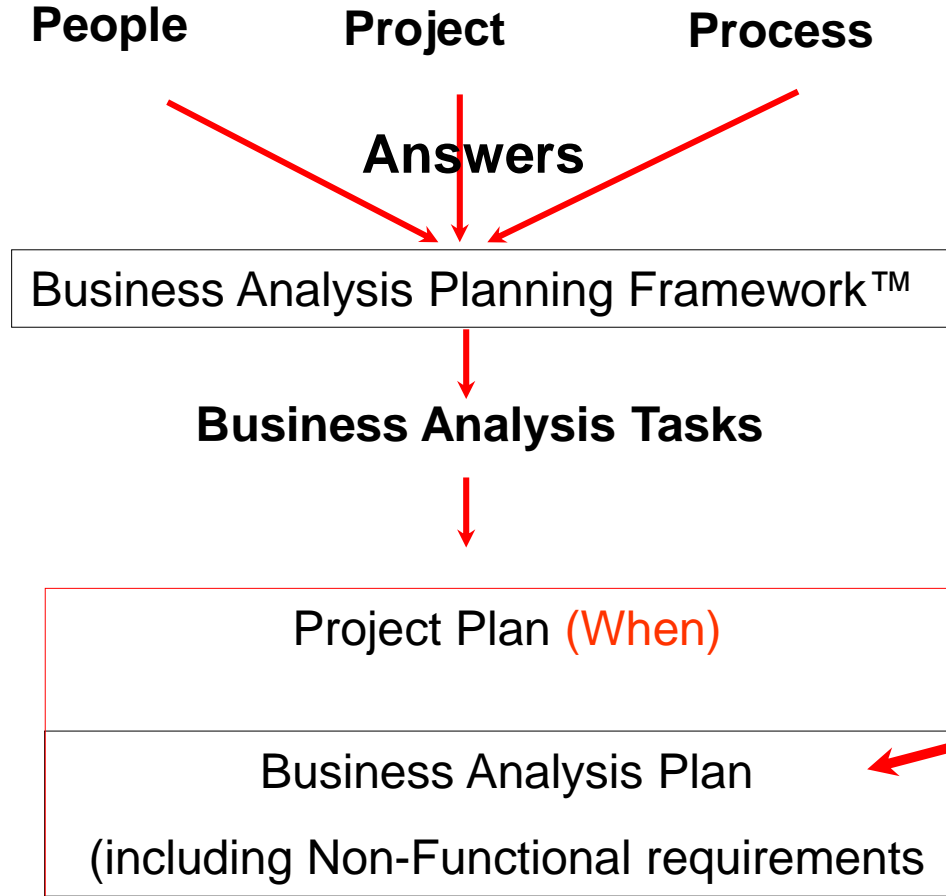
# Why The Business Analyst?

Non-functional requirements analysis examines the requirements for a solution that define **how well the functional requirements must perform**. It specifies criteria that can be used to judge the operation of a system rather than specific behaviours (which are referred to as the functional requirements).





# Business Analysis Planning Functional and Non-Functional



## For each activity

**Why** are we going to do it?

**Who** is involved

**What** is the output required

**How** can we achieve the output

**When** will it be done

**Where** will it be done



# Categories of Non-Functional Requirements

- **Availability**
- **Compatibility**
- **Functionality**
- **Maintainability**
- **Performance Efficiency**
- **Portability**
- **Service Level Agreements**
- **Extensibility**

- Non-functional requirements are generally expressed in **textual** formats as **declarative statements** or in matrices.
- Declarative non-functional requirements statements will typically have a constraining factor to them.
- For example, errors must not exceed X per use of the process, transactions must be at least X% processed after S seconds, or the system must be available X% of the time.

# Categories of Non-Functional Requirements

## *Continued*

- **Reliability**
- **Scalability**
- **Security**
- **Usability**
- **Certification**
- **Compliance**
- **Localisation**

Non-Functional Requirements must be

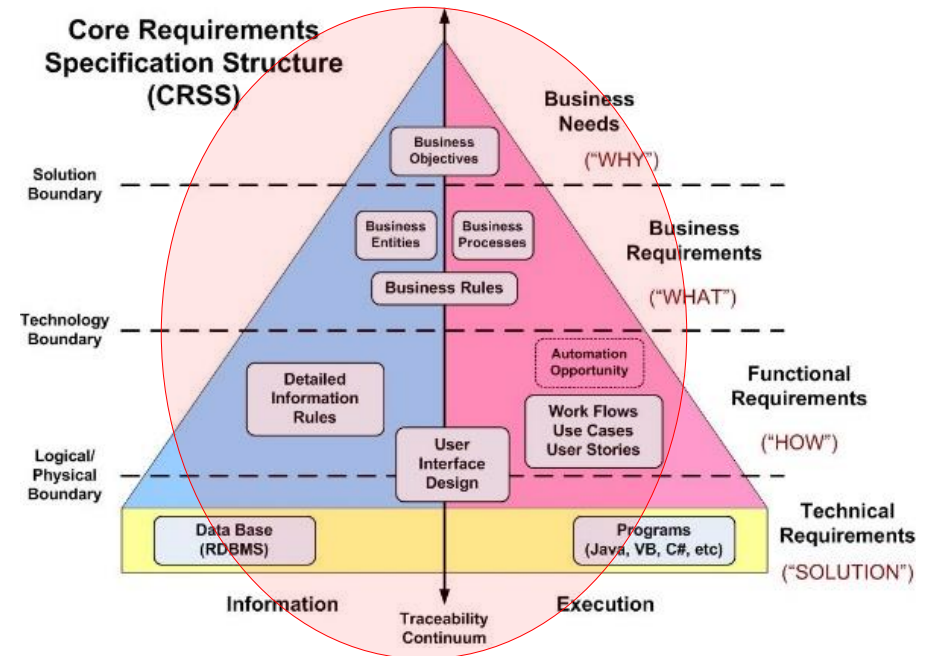
**SMART**

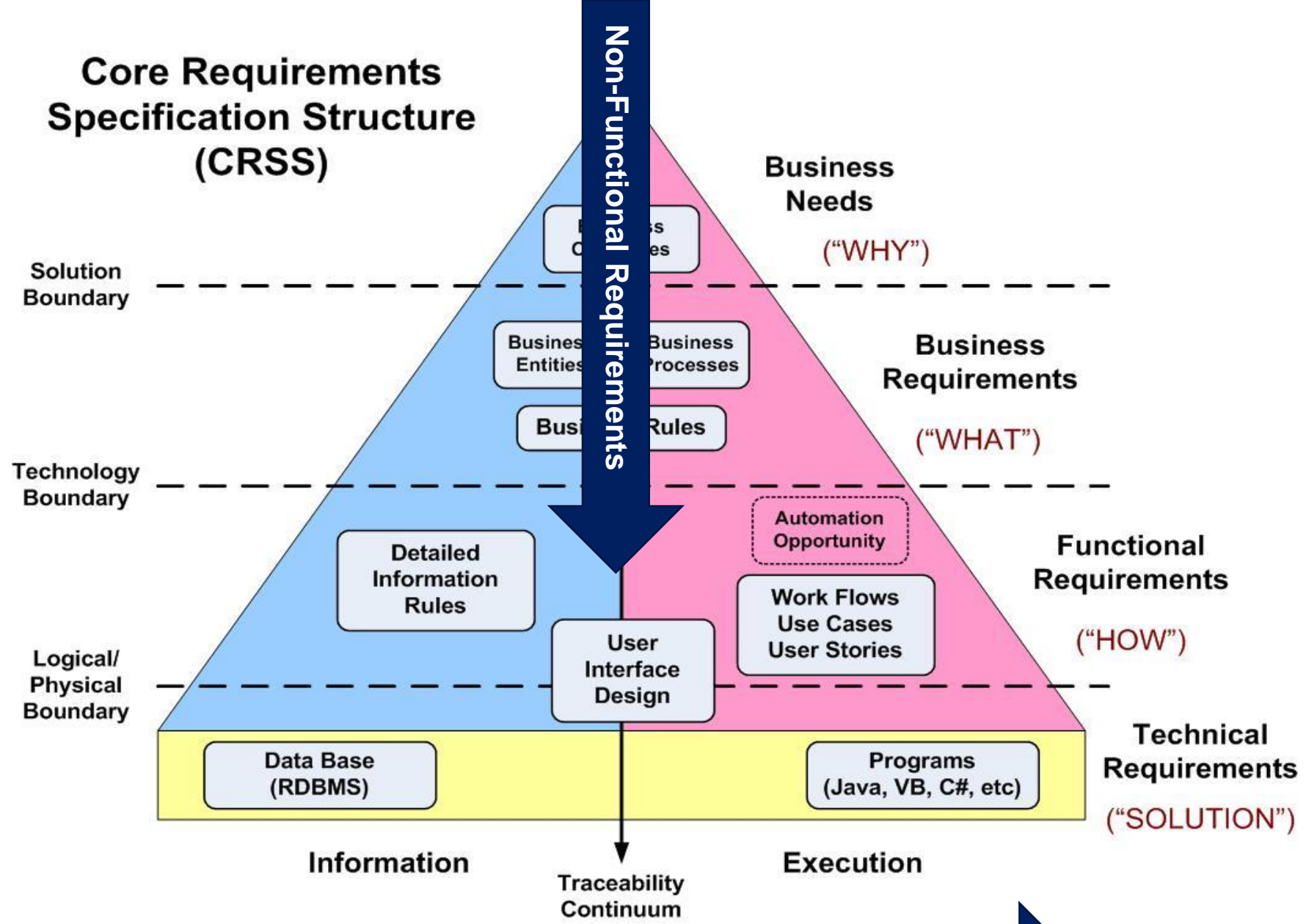
but must also have the business value.

# Non-Functional Requirements

## Typical Stakeholders Involved:

- Subject Matter Experts
- Business Users
- Other Affected Stakeholder Representatives
- Business Analyst
- Project Manager
- Technical Team Representatives
- Security Analysts





**Non-Functional Requirements**

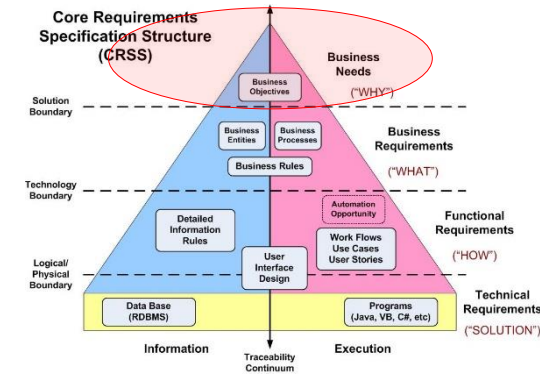


# Objectives and Project Initiation

## “Why and Scope”

### Typical Non-Functional Requirements:

- Availability
- Compatibility
- Functionality
- Maintainability
- Performance Efficiency
- Portability
- Service Level Agreements
- Extensibility
- Reliability
- Scalability
- Security
- Usability
- Certification
- Compliance
- Localisation



### Project Objectives (Why)

### Project Initiation Documentation:

- Project Scope
- Project Statement Of Purpose
- Project Problems/Opportunities
- Business Risks
- Project Assumptions
- External Interactions (Where)
- Context Level Dataflow Diagram
- Items Out Of Scope

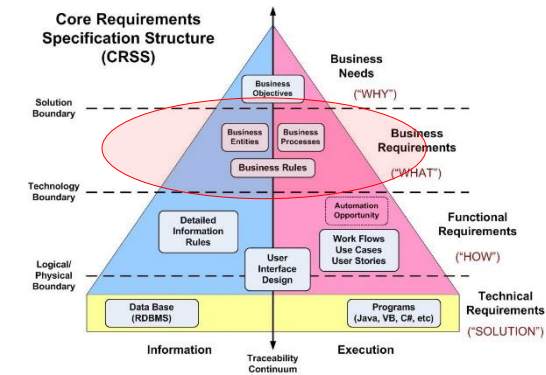


# Business Requirements

“What”

## Typical Non Functional Requirements:

- Availability
- Performance Efficiency
- Service Level Agreements
- Reliability
- Security
- Certification
- Compliance



- **Business Process Requirements:**
  - Essential Processes
  - Essential Process Details
- **Business Information Requirements:**
  - Entities
  - Entity Relationship Diagram
  - Attributes
  - Relationships (Data Related Business Rules)
- **Additional Business Rules**



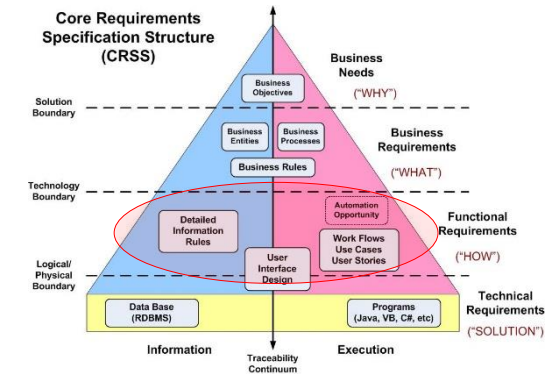


# Non-Functional Requirements

“How”

Inherits the Business Process and Data Non-Functional Data:

- Compatibility
- Performance Efficiency
- Reliability
- Scalability
- Security
- Usability



- User Classes/Actors
- Initial Design Plan
- Functional Requirements Phase 1
- Use Case Diagram – Phase 1
- Workflows
- System Functionality
- System User Story List
- System User Story Conversions
- User Interface Requirements







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**Thank You**

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