

# Requirements Specification



Español



## Entries

- Initial obtained requirements specification of the software system or provided by the client.
  - ◆ Can it be used configuration management?: **Yes**



## Exit

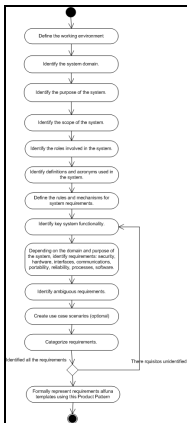
- Requirements specification document
  - ◆ Can it be used configuration management?: **Yes**



## Solution



## Process



## Development time

- ◆ To acquire the necessary knowledge to develop the software product: 1 day
- ◆ To create the Product Pattern: 1 day
- ◆ To apply the Product Pattern: 1 day



## Explanatory Video

- ◆ Not applicable



## Related Patterns

- Use Case Diagram



## Quality Controllers

- None



## Templates

- Format based on the IEEE 830 Standard



## Examples

- None



## Herramientas de Soporte

- CaliberRM (Borland)
- Enterprise Architect (Sparx Systems)
- Microsoft Word
- OpenOffice Writer
- Visual Paradigm for UML (Visual Paradigm)



## Initial Context

It is desired to describe the functioning and behavior of a software system. It is wanted to take into account customer requirements as well as users system software to develop; Likewise, it is desired to describe design constraints and system implementation.



## Result Context

It has a document that describes the functioning and behavior of a software system. This document takes into account all functional and non-functional requirements of the system and has the approval of the development team and the customer or end user.



## Problem

Creation of a document detailing precisely and explicitly all the features and capabilities that a software system must provide (this includes all functional and non-functional requirements of the system to be developed). Likewise, this document must specify the constraints to be taken into account in developing the system.



## Restrictions (*Forces*)

- **Type of Organization:** SMEs, Large Companies.
- **System Type:** It applies to all types of systems.
- **Programming Paradigm:** OO (Object Oriented), structured, logical, functional.



## Roles

- Analyst
- Customer
- Project Manager
- System Users



## Lessons Learned

- Benefits of using this pattern
  - ◆ Facilitate the creation of a description of the system to be developed and how it will be used.
  - ◆ It can describe scenarios that exemplify the perspective of the system from the point of view of different users.
  - ◆ The customer has a clear idea about what it will and will not do the system to be developed.



## Capability Level

- Capability Level 2 CMMI.



## Basic Knowledge and Skills



### Knowledge

- Definition of software requirements (functional and non-functional).



### Habilidades

- Capacity of abstraction.
- Capacity of analysis.
- Eloquence in speech.



## Information Resources

- Le Vie, D. *Writing Software Requirements Specifications*. Recuperado el 2009-11-26 de <http://www.techwr-l.com/techwhirl/magazine/writing/softwarerequirementspecs.html>
  - Pressman, R. (2005). *Ingeniería del Software, un Enfoque Práctico* (6ta. ed.). Mc Graw Hill.
  - Sommerville, I. (2006). *Software Engineering* (8va. ed.). Addison Wesley.
  - Wieggers, K. (2003). *Software Requirements* (2da. ed.). Microsoft Press.
  - Wieggers, K. (2006). *More About Software Requirements: Thorny Issues and Practical Advice*. Microsoft Press.
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