

# Use case prioritization



Español

## Entries

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

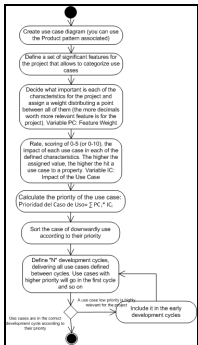


## Exit

- Use Case Diagram
  - ◆ Can it be used configuration management?: **Yes**

## Solution

## Process



## Development time

- ◆ To acquire the necessary knowledge to develop the software product: 2 hours.
- ◆ To create the Product Pattern: 2 hours.
- ◆ To apply the Product Pattern: 1 day.

## Explanatory Video

## Related Patterns

- Use Case Diagram
- High Level Use Case Diagram
- Use Case Diagram in Expanden Format
- Requirements Specification

## Quality Controllers

- None

## Templates

- Technical description of Prioritization of Use Case.

## Examples

- (2010) Restaurant Management. María Isabel Sánchez Segura.

## Support Tools

- Microsoft Word
- OpenOffice Writer



## Initial Context

It is developing a software system using the [Craig Larman Method](#), it already has the use case diagram and wants to plan the development of the application.



## Result Context

Planning development cycles (iterations) of the software system to be created is obtained.



## Problem

It is desired to organize the development of a software system from which it has been created a use case diagram reflecting the functionality of system. Since you are using the [Craig Larman Method](#), It is desired to divide the development of the software system in several cycles (or iterations) of development, prioritizing the use cases according to the impact that has the development of the functionality of one over another according to a set of predefined design feature.



## Restrictions (*Forces*)

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



## Roles

- Analyst
- Customer
- Project Manager
- System Users



## Lessons Learned

- Settings in prioritizing use cases [[María Isabel Sánchez Segura, 2010](#)]
  - ◆ By prioritization I've noticed that sometimes a case of high priority application has an inclusion with other use cases that has remained in cataloged with less priority in later cycles. In these cases we should group all the use cases, both the priority cases, as those associated by inclusion in the same development cycle. Regardless of the priority they have reached the other use cases.
  - ◆ Once the priority of each use case is established, it is convenient to group use cases of the same size so that development cycles are balanced.



## Capability Level

- Capability Level 2 CMMI.



## Basic Knowledge and Skills



### Knowledge

- Definition of software requirements (functional and non-functional).
- [Craig Larman Method](#)
- UML notions, especially the technique of modeling use cases and sequence diagrams.



### Abilities

- Capacity of abstraction.
- Capacity of Analysis.



## Information Resources

- Ferré Grau, X & Sanchez-Segura, M. (2004). *Desarrollo Orientado a Objetos con UML*. Recuperado el 2009-11-26 de <http://www.clikear.com/manuales/uml/index.aspx>.
  - Fowler, M. (2004). *UML distilled: a brief guide to the standard object modelling language*. Addison-Wesley.
  - Larman, C. (2001). *Applying UML and Patterns: An Introduction to Object-Oriented Analysis and Design and the Unified Process* (2da. ed.). Prentice Hall.
  - Jacobson, I. & Booch, G.(1999). *The unified software development process*. Addison-Wesley.
  - Rumbaugh, J. & Jacobson, I. (2005). *The unified modeling language reference manual*. Addison-Wesley.
  - Rumbaugh, J. (2005). *Object-Oriented Modelling and Design*. Prentice Hall.
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