

Operation Contract



Español

Entries

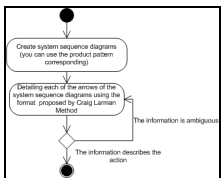
- Use Case Diagram (using UML)
 - ◆ Can it be used configuration management?: **Yes**
- System Sequence Diagrams
 - ◆ Can it be used configuration management?: **Yes**
- Requirements Specification Document
 - ◆ Can it be used configuration management?: **Yes**

Exit

- Operating Contracts
 - ◆ 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: 2 days

Explanation video



Related Patterns

- Use Case Diagram
- System Sequence Diagram
- Requirements Specification

Quality Controllers

- None

Templates

-  Format of the operations contract
-  Operations Contract Template

Examples

-  Example operations contract "Login", "Logout" and "ModifyData" in the context of a social network.

Support Tools

- Microsoft Word
- OpenOffice Writer
- Rational Software Modeler (IBM)
- StarUML (Open Source Project)
- Visual Paradigm for UML (Visual Paradigm)



Initial Context

A **Craig Larman Method** is carried out to develop a software system, and it has been created a sequence diagrams of system use cases.



Result Context

It has been created a detailed description of each of the activities represented in the system sequence diagram.



Problem

It has been generated the sequence diagrams system of the use case of a software system that is being developed using the **Craig Larman Method**, however, it wanted to be detailed each of the activities represented on it sequence diagrams system to prevent ambiguities in implementation.



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

- None



Capability Level

- Capability Level 2 CMMI.



Basic Knowledge and Skills



Knowledge

- Definition of software requirements (functional and non-functional).
- **Craig Larman Method**
- Notions of UML, especially the technique of modeling of use cases.



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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