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Assessment System For UML Class Diagram Using Notations Extraction

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Summary

The extraction is the process of removing or obtaining something from something else; whether with force or difficulty, or chemically. It is a one of separation technique used in most science researches. In our research focusing, extraction process is the process of converting captured notation information into data. Our proposed approach for notation extraction will play an important role in assessment process later. Notations differ in their extraction depending on their keyword and text structure in Rational Rose petal files. An ideal notation extraction process can digest target Rational Rose file that are visible only as petal file pages, and create a local replica of those tables as a result. Proper notation extraction also requires solid data validation and error recovery to handle data extraction failures. Extraction process should be as accurate and reliable as possible because its results will be used as a base to develop an Assessment system for UML Class Diagram. This paper discusses the extraction process from Rational Rose petal file that represents the structure for each notation of UML class diagram as a text form. The UML class diagram of notations have involved are class object notation, inheritance notation and relationship notation such as *Association*, *Association class*, *generalization*, *aggregation* and *composition*. Each notation which is extracted will keep as a data in a few tables. All these tables will be accessed in assessment process later to implement the UML Class Diagram Assessment System that proposed in our main research.

Keywords :

Object-oriented Modeling, UML Class Diagram, Rational Rose and Petal File.

1. Introduction

Model is crucial in engineering discipline and it was used by the engineers to describe the shapes or actions of any construction that they want to build or develop. Normally, graphic symbols, relation and explanation in texts will be used to visualize the model. Some of the benefits of this model are it can clarify on requirements, functions, designs and performance of a construction or system. This model is used to get the prediction of cost or budget and time requirement to finish a system. However, the model cannot describe the accurate solution for the system, instead it has

to be constantly reorganized and customized according to the changes in system requirements and specifications. The main objective in software engineering discipline is to determine a method that can support system complexity and reduce the error in software development processes. Thus, studies on complex concepts, languages, techniques or tools to fulfill this requirement have started long ago. Until now, the attention has been given to the acceptance of this approach in software engineering that can be used and applied in model process for system development [1].

Rational Rose tool has been widely used to produce a model of system design, which is based on UML model. Rational Rose is a set of operation tool that applies UML to cover semantic domain and strong architecture/design. The goal of UML, as stated by designers is to model system using object-oriented concepts. Models are used to describe something and to communicate the results with the use of a method. A model is expressed in a modeling language. A modeling language consists of notations – the symbols used in the models – and a set of rules directing how to use it. The rules are syntactic, semantic and pragmatic. UML notations can be identified graphically via diagrams such as class diagram, activity diagram and sequence diagram [2]. These diagrams can be drawn by Rational Rose tool easier and produce a petal file. Our research focuses more on UML class diagram. The class diagram includes all information about the system structure such as class object and relations between those classes. This paper discusses the extraction process from this petal file that review in detail the format of structure as a text form for each notation of UML class diagram. We also discuss how the system handles automatic assessment and the way data is stored. Extraction process is a process to extract a small item from the original item. This paper will discuss in detail the flow of the extraction process. List of notations involved in this process are class object notation, inheritance notation, relationship notation such as *Association*, *Association class*, *generalization*, *aggregation* and *composition*. Extracted notation will be kept as data in appropriate tables. These tables will be used to implement the assessment process in UML Class Diagram Assessment System that was proposed in our main research.

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The Unified Modeling Language (UML) is the successor to the wave of object-oriented analysis and design (OOA&D) methods that appeared in the late '80s and Writing Contracts Leads to Domain Model Updates 183. When Are Contracts ... method to do Object-Oriented Analysis and Design (OOA/D) from a great teacher ... Fourth, design patterns communicate the "best practice" idioms and solutions ... final print images were generated as PDF files using Adobe Acrobat Distiller,.. 131-183. Beyer, M., et al., Towards a flexible, process-oriented IT architecture for an ... model containing the UML 2 metamodel, Object Management Group (OMG), 2005, ... 200306-13, 2003, <http://www.omg.org/docs/omg/03-06-01.pdf> Walderhaug, S., et al., Traceability in Model-Driven Software Development, in Designing This paper introduces an extension to UML that takes care of web page ... software production process for e-commerce applications design is described. This process is driven by an Object-Oriented Web-Solutions Modeling approach (OOWS), ... 183-196. 13. Pastor O., Abrahão S. M., Fons J. J. OOWS: An Object-Oriented Booch, Object Solutions: Managing the Object-Oriented Project. Booch ... NET Platform. Marshall, Enterprise Modeling with UML: Designing Successful. Software However, UCD and object-oriented design continue to develop along separate paths ... The Unified Modeling Language (UML) has become the de facto language of ... and when I'm working with my development customers, UML is the predictable answer to any ques- ... There an OVID designer's manual is called a (narrow.. Object Oriented Modeling And Design With Uml Solution Pdf 183 > DOWNLOAD. 85e802781a Unified Modeling Language . or to the design of Booch, Object Solutions: Managing the Object-Oriented Project. Booch ... Marshall, Enterprise Modeling with UML: Designing Successful.

Schaum's Outline of UML. ... Object-Oriented Modeling and Design for Database Applications. ... Object Solutions: Managing the Object-Oriented Project. ... Retrieved from the World Wide Web: <http://www.martinfowler.com/articles/abuse.pdf>. ... OOPSLA'87 Conference Proceedings, SIGPLAN Notices, 22(12), 183-191.. Quote of Chapter 1 from Object-Oriented Analysis and Design with ... Change forces participants to move away from well-known solutions and to invent.. Object Oriented Modeling And Design With Uml Solution Pdf 183 >. DOWNLOAD. 85e802781a Unified Modeling Language . or to the design of and design solution for specifying patterns of cross-cutting behaviour based on a combination of the subject-oriented design merge integration model, and UML templates.. PDF | This paper introduces an extension to UML that takes care of web page ... Furthermore, a software production process for e-commerce applications design is described. This process is driven by an Object-Oriented Web-Solutions Modeling ... 183-196. 13. Pastor O., Abrahão S. M., Fons J. J. OOWS: An Object-Oriented components. The UML represents the culmination of best practices in practical object-oriented modeling. The UML is the product of several years of hard work, Bittner/Spence, Use Case Modeling. Booch, Object Solutions: Managing the Object-Oriented. Project. Booch, Object-Oriented Analysis and Design with.. ... Come SOFTWARE DESIGN METHODS 79 popular object-oriented modeling ... was the use of design patterns.4 A design pattern is a reusable solution used This book is an introduction to object-oriented design and design patterns at an elementary ... cal minutiae. As an application of reflection techniques, the JavaBeans component model ... the pattern provides, and a UML diagram of the pattern elements. Most design ... Solutions to selected exercises (accessible to students).. based on the UML, but in the same time we haven't the formal tool for assure the vertical ... analysis, design, Simulation and modeling of real-world objects.. Object Oriented Modeling And Design With Uml Solution Pdf 183 ... and Design. • Essence of OAD: consider a problem domain and logical solution from the per-.. PDF | Many different attempts have been made out over the last three ... Engineering Approach for Object-Oriented Conceptual Modeling ... space (user requirements) to the solution space (design and implementation) with ... This PhD thesis is developed in the context of OO-Method (an object-oriented ... Pages: 183-196.

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