Abstract

This paper proposes a stand-alone software that accepts UML Design Specifications through a simple user interface. It will generate XML code and object-oriented code for the specifications provided by the user, in parallel. Along with the generation of code, the software will also produce the graphical representation of the UML diagram, thus facilitating the easy visualization...
of the diagram being produced. This tool will free the software developer from the mundane task of writing simple class skeleton so he/she can concentrate on the business logic and overall architecture of his/her project, provides consistency between design and code and eliminates the unintended errors that can creep into manually written code. It will create an effective integration between the design and implementation stages. Also, due to generation of XML code, it facilitates portability. This paper concentrates mainly on class diagram and Java code that can be extended in future to cover other diagrams and other object-oriented languages.

References

- University of California, "ArgoUML: An Object Oriented UML Design Tool.
- Justin Elsberry and Nicholas Elsberry, "Using XML and SVG to Generate Dynamic UML Diagrams".
- William Harrison, Charles Barton, Mukund Raghavachari, "Mapping UML design to Java".
- Krish Narayanan, Shreya Ramaswamy, "Specifications for Mapping UML Models to XML Schemas".
- Robert C. Martin, "UML Tutorial- Class diagram".
- Robert C. Martin, "UML for Java Programmers".

Index Terms

Computer Science

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Keywords

Class Diagram  Gui  Object-oriented Code  Portable  Uml Design Specifications  Xml