



JAXB Parser

Introduction

A new Java API called Java Architecture for XML Binding (JAXB) can make it easier to access XML documents from applications written in the Java Programming language.

Advantages

It simplifies access to an XML document from a Java program:

It allows you to access and process XML data without having to know XML or XML processing. Unlike SAX-based processing, there's no need to create a SAX parser or write callback methods.

It allows you to access data in non-sequential order, but unlike DOM-based processing, it doesn't force you to navigate through a tree to access the data.

By unmarshalling XML data through JAXB, Java content objects that represent the content and organization of the data are directly available to your program.

It uses memory efficiently: The tree of content objects produced through JAXB tends to be more efficient in terms of memory use than DOM-based trees.

Process of JAXB to Parse

Using JAXB,

Binding: Binding a schema means generating a set of Java classes that represents the schema. All JAXB implementations provide a tool called a binding compiler to bind a schema (the way the binding compiler is invoked can be implementation-specific).

For example, the JAXB Reference Implementation provides a binding compiler that you can invoke through scripts. Unmarshal the document into Java content objects. The Java content objects represent the content and organization of the XML document and are directly available to your program.

JAXB simplifies access to an XML document from a Java program by presenting the XML document to the program in a Java format. The first step in this process is to bind the schema for the XML document into a set of Java classes that represents the schema.

Schema: A schema is an XML specification that governs the allowable components of an XML document and the relationships between the components. For example, a schema identifies the elements that can appear in an XML document, in what order they must appear, what attributes they can have, and which elements are subordinate (that is, are child elements) to other elements. An XML document does not have to have a schema, but if it does, it must conform to that schema to be a valid XML document. JAXB requires that the XML document you want to access has a schema, and that schema is written in the W3C XML Schema Language²

Referenced links

<http://www.oracle.com/technetwork/articles/javase/index-140168.html>²

Sample

Name	Size	Creator	Creation Date	Comment
JaxParser.java	4 kB	MULLAIKANI A.	Jul 20, 2012 07:03	JAXB Parser for Employee XML