

Managing XML with the Java Platform (SL-385)

Overview of XML and JAXP

- Define XML
- Compare and contrast HTML and XML
- Identify characteristics of XML documents
- Describe JAXP and the packages in the download software
 - Describe the features of the next version of JAXP (v1.1)

SAX Programming Basics

- Define SAX, and give a general description of how it works
- Outline the main methods used in SAX programs
- Describe the JAXP SAX factory interfaces
- Identify and describe the SAX event handlers
- Write a SAX program that defines an event handler
- Write a SAX program that uses location information provided by the Locator interface
 - Write a SAX program that obtains attribute information

XML Using DTDs

- Define Document Type Definition (DTD)
- Give an example of an XML file with a DTD to illustrate DTD syntax
- Write a program that uses a validating SAX parser
 - Write a SAX program that uses the EntityResolver interface to control handling of external subsets

DOM Programming Basics

- Define DOM, and describe how it works
- Outline the main methods used in DOM programs
- Write a DOM program that creates, appends, modifies, or deletes specified nodes from a DOM tree
 - Write a DOM program that modifies element attribute specifications

More on DOM

- Create a program that uses the TreeWalker class of the JAXP reference implementation to walk a DOM tree

- Write a program that outputs the namespace associated with every element and attribute in an XML file

Introduction to XSLT

- Define XSL and XSLT
- Describe the main components of an XSL document
- Write a Java program that uses the TrAX and Xalan
 - Transform an XML document using the Xalan XSLT processor and a stylesheet

XML Applications and Java Technology

- Describe the major areas of XML application development
- Identify what and where Java technologies can be used in XML application development
 - Describe the message format, communication protocol, and security issues of XML data exchange and integration

XML Application Issues, Future Work, and Products

- Summarize the issues that XML application developers are still dealing with
- Identify the standards and APIs under development to address specific XML application issues
 - List XML products and software currently available and the standards these support