

APACHE XERCES DOM PARSER - MODIFY XML DOCUMENT

http://www.tutorialspoint.com/xerces/xerces_dom_modify_document.htm

Copyright © tutorialspoint.com

Demo Example

Here is the input xml file we need to modify:

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<cars>
  <supercars company="Ferrari">
    <carname type="formula one">Ferrari 101</carname>
    <carname type="sports">Ferrari 202</carname>
  </supercars>
  <luxurycars company="Benteley">
    <carname>Benteley 1</carname>
    <carname>Benteley 2</carname>
    <carname>Benteley 3</carname>
  </luxurycars>
</cars>
```

Demo Example:

ModifyXmlFileDemo.java

```
package com.tutorialspoint.xml;

import java.io.File;
import javax.xml.parsers.DocumentBuilder;
import javax.xml.parsers.DocumentBuilderFactory;
import javax.xml.transform.Transformer;
import javax.xml.transform.TransformerFactory;
import javax.xml.transform.dom.DOMSource;
import javax.xml.transform.stream.StreamResult;
import org.w3c.dom.Document;
import org.w3c.dom.Element;
import org.w3c.dom.NamedNodeMap;
import org.w3c.dom.Node;
import org.w3c.dom.NodeList;

public class ModifyXmlFileDemo {

public static void main(String argv[]) {

    try {
        File inputFile = new File("input.txt");
        DocumentBuilderFactory docFactory =
            DocumentBuilderFactory.newInstance();
        DocumentBuilder docBuilder =
            docFactory.newDocumentBuilder();
        Document doc = docBuilder.parse(inputFile);
        Node cars = doc.getFirstChild();
        Node supercar = doc.getElementsByTagName("supercars").item(0);
        // update supercar attribute
        NamedNodeMap attr = supercar.getAttributes();
        Node nodeAttr = attr.getNamedItem("company");
        nodeAttr.setTextContent("Lamborghini");

        // loop the supercar child node
        NodeList list = supercar.getChildNodes();
        for (int temp = 0; temp < list.getLength(); temp++) {
            Node node = list.item(temp);
            if (node.getNodeType() == Node.ELEMENT_NODE) {
                Element eElement = (Element) node;
                if ("carname".equals(eElement.getNodeName())){
                    if("Ferrari 101".equals(eElement.getTextContent())){
```

```

        eElement.setTextContent("Lamborghini 001");
    }
    if("Ferrari 202".equals(eElement.getTextContent()))
        eElement.setTextContent("Lamborghini 002");
    }
}
}
NodeList childNodes = cars.getChildNodes();
for(int count = 0; count < childNodes.getLength(); count++){
    Node node = childNodes.item(count);
    if("luxurycars".equals(node.getNodeName()))
        cars.removeChild(node);
}
// write the content on console
TransformerFactory transformerFactory =
TransformerFactory.newInstance();
Transformer transformer = transformerFactory.newTransformer();
DOMSource source = new DOMSource(doc);
System.out.println("-----Modified File-----");
StreamResult consoleResult = new StreamResult(System.out);
transformer.transform(source, consoleResult);
} catch (Exception e) {
    e.printStackTrace();
}
}
}
}

```

This would produce the following result:

```

-----Modified File-----
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<cars>
<supercars company="Lamborghini">
<carname type="formula one">Lamborghini 001</carname>
<carname type="sports">Lamborghini 002</carname>
</supercars></cars>

```