

APACHE XERCES STAX PARSER - MODIFY XML DOCUMENT

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

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Demo Example

In order to run this example, you should have jdom.jar in your application's classpath. Download [jdom-2.0.5.zip](#).

Here is the XML we need to modify:

```
<?xml version="1.0"?>
<class>
<student rollno="393">
  <firstname>Dinkar</firstname>
  <lastname>Kad</lastname>
  <nickname>Dinkar</nickname>
  <marks>85</marks>
</student>
<student rollno="493">
  <firstname>Vineet</firstname>
  <lastname>Gupta</lastname>
  <nickname>Vinni</nickname>
  <marks>95</marks>
</student>
<student rollno="593">
  <firstname>Jasvir</firstname>
  <lastname>Singh</lastname>
  <nickname>Jazz</nickname>
  <marks>90</marks>
</student>
</class>
```

Demo Example:

StAXModifyDemo.java

```
package com.tutorialspoint.xml;

import java.io.File;
import java.io.FileNotFoundException;
import java.io.FileReader;
import java.io.IOException;
import java.util.Iterator;
import java.util.List;

import javax.xml.stream.XMLEventReader;
import javax.xml.stream.XMLInputFactory;
import javax.xml.stream.XMLStreamConstants;
import javax.xml.stream.XMLStreamException;
import javax.xml.stream.events.Attribute;
import javax.xml.stream.events.StartElement;
import javax.xml.stream.events.XMLEvent;

import org.jdom2.Document;
import org.jdom2.Element;
import org.jdom2.JDOMException;
import org.jdom2.input.SAXBuilder;
import org.jdom2.output.Format;
import org.jdom2.output.XMLOutputter;

public class StAXModifyDemo {
    public static void main(String[] args) {
        try {
            XMLInputFactory factory = XMLInputFactory.newInstance();
```

```

XMLEventReader eventReader =
    factory.createXMLEventReader(
        new FileReader("input.txt"));
SAXBuilder saxBuilder = new SAXBuilder();
Document document = saxBuilder.build(new File("input.txt"));
Element rootElement = document.getRootElement();
List<Element> studentElements = rootElement.getChildren("student");
while(eventReader.hasNext()){
    XMLEvent event = eventReader.nextEvent();
    switch(event.getEventType()){
        case XMLStreamConstants.START_ELEMENT:
            StartElement startElement = event.asStartElement();
            String qName = startElement.getName().getLocalPart();

            if (qName.equalsIgnoreCase("student")) {
                Iterator<Attribute> attributes = startElement.getAttributes();
                String rollNo = attributes.next().getValue();
                if(rollNo.equalsIgnoreCase("393")){
                    //get the student with roll no 393
                    for(int i=0;i < studentElements.size();i++){
                        Element studentElement = studentElements.get(i);

                        if(studentElement.getAttribute("rollno").getValue().equalsIgnoreCase("393")){
                            studentElement.removeChild("marks");
                            studentElement.addContent(new Element("marks").setText("80"));
                        }
                    }
                }
            }
            break;
    }
}

XMLOutputter xmlOutput = new XMLOutputter();
// display xml
xmlOutput.setFormat(Format.getPrettyFormat());
xmlOutput.output(document, System.out);
} catch (FileNotFoundException e) {
    e.printStackTrace();
} catch (XMLStreamException e) {
    e.printStackTrace();
} catch (JDOMException e) {
    e.printStackTrace();
} catch (IOException e) {
    e.printStackTrace();
}
}
}

```

This would produce the following result:

```

<student rollno="393">
  <firstname>Dinkar</firstname>
  <lastname>Kad</lastname>
  <nickname>Dinkar</nickname>
  <marks>80</marks>
</student>
<student rollno="493">
  <firstname>Vineet</firstname>
  <lastname>Gupta</lastname>
  <nickname>Vinni</nickname>
  <marks>95</marks>
</student>
<student rollno="593">
  <firstname>Jasvir</firstname>
  <lastname>Singh</lastname>
  <nickname>Jazz</nickname>
  <marks>90</marks>
</student>

```