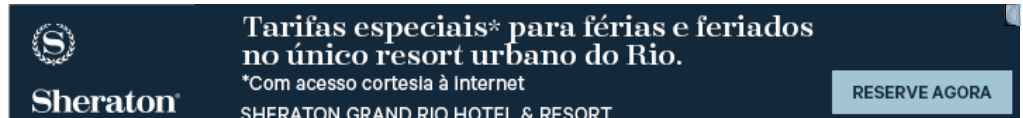# Java Tutorial Corner (http://javatutorialcorner.com/)

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Read UTF-8 XML file using SAX Parser

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In this tutorial we are going to see how to read XML file with UTF-8 character using SAX parser.

1. Create Project Called **JavaXML**.

2. Create package called **com.javatutorialscorner.xml.sax** under **JavaXML**.

3. Create Java class called **ReadUTF8XMLFile.java** under **com.javatutorialscorner.xml.sax** package.

ReadUTF8XMLFile.java

```java
package com.javatutorialscorner.xml.sax;

import java.io.File;
import java.io.FileInputStream;
import java.io.IOException;
import java.io.InputStream;
import java.io.InputStreamReader;
import java.io.Reader;

import javax.xml.parsers.ParserConfigurationException;
import javax.xml.parsers.SAXParser;
import javax.xml.parsers.SAXParserFactory;

import org.xml.sax.Attributes;
import org.xml.sax.InputSource;
import org.xml.sax.SAXException;
import org.xml.sax.helpers.DefaultHandler;

public class ReadUTF8XMLFile {

 /**
  * @param args
  */
 public static void main(String[] args) {
  // TODO Auto-generated method stub
  try {
   SAXParserFactory saxParserFactory = SAXParserFactory.newInstance();
   SAXParser parser = saxParserFactory.newSAXParser();
   DefaultHandler defaultHandler = new DefaultHandler() {
    boolean firstName = false;
    boolean lastName = false;
    boolean petName = false;

    public void startElement(String uri, String localName,
      String qName, Attributes attribute) throws SAXException {
     System.out.println("Start Element : " + qName);
     if (qName.equalsIgnoreCase("FIRSTNAME")) {
      firstName = true;
     }
     if (qName.equalsIgnoreCase("LASTNAME")) {
      lastName = true;
     }
     if (qName.equalsIgnoreCase("PETNAME")) {
      petName = true;
     }
    }

    public void endElement(String uri, String localName,
      String qName) throws SAXException {
     System.out.println("End Element : " + qName);
    }

    public void characters(char ch[], int start, int length)
      throws SAXException {
     if (firstName) {
      System.out.println("First Name : "
        + new String(ch, start, length));
      firstName = false;
     }
     if (lastName) {
      System.out.println("Last Name : "
        + new String(ch, start, length));
      lastName = false;
     }
     if (petName) {
      System.out.println("Pet Name : "
        + new String(ch, start, length));
      petName = false;

     }
    }
   };
   File xmlFile = new File("C:\jtc\student.xml");
   InputStream inputStream = new FileInputStream(xmlFile);
```

```
      Reader reader = new InputStreamReader(inputStream, "UTF-8");
      InputSource inputSource = new InputSource(reader);
      parser.parse(inputSource, defaultHandler);
    } catch (ParserConfigurationException e) {
     // TODO Auto-generated catch block
     e.printStackTrace();
    } catch (SAXException e) {
     // TODO Auto-generated catch block
     e.printStackTrace();
    } catch (IOException e) {
     // TODO Auto-generated catch block
     e.printStackTrace();
    }

  }

 }
```

If you parse XML file that contains UTF character that throws error.So avoid this error convert xml to UTF-8 InputStream by using following lines of code.

```
File xmlFile = new File("C:\jtc\student.xml");
    InputStream inputStream = new FileInputStream(xmlFile);
    Reader reader = new InputStreamReader(inputStream, "UTF-8");
    InputSource inputSource = new InputSource(reader);
    parser.parse(inputSource, defaultHandler);
```

student.xml

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<college>
<student>
<firstname>Shiva</firstname>
<lastname>J</lastname>
<petname>§</petname>
</student>
</college>
```

Now you can run the program see the following output in console.

> *Start Element : college*
>
> *Start Element : student*
>
> *Start Element : firstname*
>
> *First Name : Shiva*
>
> *End Element : firstname*
>
> *Start Element : lastname*
>
> *Last Name : J*
>
> *End Element : lastname*
>
> *Start Element : petname*
>
> *Pet Name : §*
>
> *End Element : petname*
>
> *End Element : student*
>
> *End Element : college*

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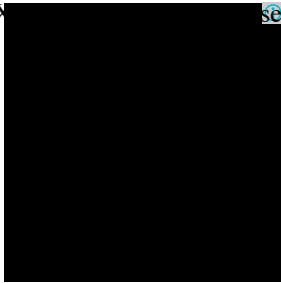
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