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Read XML File as List of Object using SAX Parser

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In this tutorial we are going to see how to read XML file and how to convert it as List of Object using SAX parser

1. Create Project Called **JavaXML**.
2. Create package called **com.javatutorialscorner.xml.sax** under **JavaXML**.
3. Create Java class called **Student.java** under **com.javatutorialscorner.xml.sax** package.

Student.java

```
package com.javatutorialcorner.xml.sax;

public class Student {
    private int id;
    private String firstName;
    private String lastName;

    public int getId() {
        return id;
    }

    public void setId(int id) {
        this.id = id;
    }

    public String getFirstName() {
        return firstName;
    }

    public void setFirstName(String firstName) {
        this.firstName = firstName;
    }

    public String getLastName() {
        return lastName;
    }

    public void setLastName(String lastName) {
        this.lastName = lastName;
    }
}
```

4. Create Java class called **SAXHandler.java** under **com.javatutorialcorner.xml.sax** package.

SAXHandler.java

```

package com.javatutorialscorner.xml.sax;

import java.io.File;
import java.util.ArrayList;
import java.util.List;

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

public class SAXHandler extends DefaultHandler {

    private List<Student> studentsList = null;
    private Student student = null;

    public List<Student> getStudentsList() {
        return studentsList;
    }

    boolean firstName = false;
    boolean lastName = false;

    public void startElement(String uri, String localName, String qName,
        Attributes attribute) throws SAXException {

        if (qName.equalsIgnoreCase("STUDENT")) {
            String id = attribute.getValue("id");
            student = new Student();
            student.setId(Integer.parseInt(id));
            if (studentsList == null) {
                studentsList = new ArrayList<Student>();
            }
        } else if (qName.equalsIgnoreCase("FIRSTNAME")) {
            firstName = true;
        } else if (qName.equalsIgnoreCase("LASTNAME")) {
            lastName = true;
        }
    }

    public void endElement(String uri, String localName, String qName)
        throws SAXException {
        if (qName.equalsIgnoreCase("STUDENT")) {
            studentsList.add(student);
        }
    }

    public void characters(char ch[], int start, int length)
        throws SAXException {
        if (firstName) {
            student.setFirstName(new String(ch, start, length));
            firstName = false;
        }
        if (lastName) {
            student.setLastName(new String(ch, start, length));
            lastName = false;
        }
    }
}

```

5. Create Java class called **SAXXMLReader.java** under **com.javatutorialscorner.xml.sax** package.

SAXXMLReader.java

```

package com.javatutorialcorner.xml.sax;

import java.io.File;
import java.io.IOException;
import java.util.List;

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

import org.xml.sax.SAXException;

public class SAXXMLReader {

    /**
     * @param args
     */
    public static void main(String[] args) {
        // TODO Auto-generated method stub

        try {
            SAXParserFactory saxParserFactory = SAXParserFactory.newInstance();
            SAXParser parser = saxParserFactory.newSAXParser();
            SAXHandler saxHandler = new SAXHandler();
            parser.parse(new File("C:\\jtc\\student.xml"), saxHandler);
            List<Student> students = saxHandler.getStudentsList();
            for (Student student : students) {

                System.out.println("Student ID : " + student.getId());
                System.out.println("Student First Name : "
                    + student.getFirstName());
                System.out.println("Student Last Name : "
                    + student.getLastName());

            }
        } 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();
        }

    }

}

```

6.XML file going to parse

student.xml

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<college>
<student id="01">
<firstname>Sathish</firstname>
<lastname>J</lastname>
</student>
<student id="02">
<firstname>Mohan</firstname>
<lastname>P</lastname>
</student>
<student id="03">
<firstname>Saravan</firstname>
<lastname>P</lastname>
</student>
<student id="04">
<firstname>Muthu</firstname>
<lastname>S</lastname>
</student>
</college>

```

Student ID : 1

Student First Name : Sathish

Student Last Name : J

Student ID : 2

Student First Name : Mohan

Student Last Name : P

Student ID : 3

Student First Name : Saravan

Student Last Name : P

Student ID : 4

Student First Name : Muthu

Student Last Name : S

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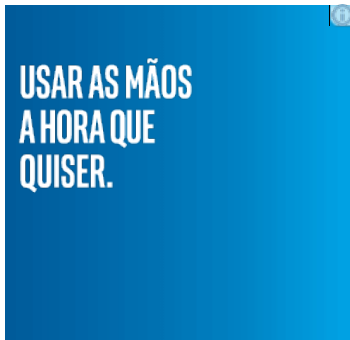
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