

JAVA JDOM PARSER - QUERY XML DOCUMENT

http://www.tutorialspoint.com/java_xml/java_jdom_query_document.htm

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Demo Example

Here is the input xml file we need to query:

```
<?xml version="1.0"?>
<cars>
  <supercars company="Ferrari">
    <carname type="formula one">>Ferarri 101</carname>
    <carname type="sports car">>Ferarri 201</carname>
    <carname type="sports car">>Ferarri 301</carname>
  </supercars>
  <supercars company="Lamborghini">
    <carname>>Lamborghini 001</carname>
    <carname>>Lamborghini 002</carname>
    <carname>>Lamborghini 003</carname>
  </supercars>
  <luxurycars company="Benteley">
    <carname>>Benteley 1</carname>
    <carname>>Benteley 2</carname>
    <carname>>Benteley 3</carname>
  </luxurycars>
</cars>
```

Demo Example:

QueryXmlFileDemo.java

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

import org.jdom2.Attribute;
import org.jdom2.Document;
import org.jdom2.Element;
import org.jdom2.JDOMException;
import org.jdom2.input.SAXBuilder;

public class QueryXmlFileDemo {
    public static void main(String[] args) {
        try {
            File inputFile = new File("input.txt");

            SAXBuilder saxBuilder = new SAXBuilder();
            Document document = saxBuilder.build(inputFile);

            System.out.println("Root element : "
                + document.getRootElement().getName());

            Element classElement = document.getRootElement();

            List<Element> supercarList = classElement.getChildren("supercars");
            System.out.println("-----");

            for (int temp = 0; temp < supercarList.size(); temp++) {
                Element supercarElement = supercarList.get(temp);
                System.out.println("\nCurrent Element : "
                    + supercarElement.getName());
                Attribute attribute = supercarElement.getAttribute("company");
                System.out.println("company : "
                    + attribute.getValue() );
                List<Element> carNameList = supercarElement.getChildren("carname");
```

```

        for (int count = 0;
            count < carNameList.size(); count++) {
            Element carElement = carNameList.get(count);
            System.out.print("car name : ");
            System.out.println(carElement.getText());
            System.out.print("car type : ");
            Attribute typeAttribute = carElement.getAttribute("type");
            if(typeAttribute !=null)
                System.out.println(typeAttribute.getValue());
            else{
                System.out.println("");
            }
        }
    }
} catch(JDOMException e){
    e.printStackTrace();
} catch(IOException ioe){
    ioe.printStackTrace();
}
}
}

```

This would produce the following result:

```

Root element :cars
-----

Current Element :supercars
company : Ferrari
car name : Ferarri 101
car type : formula one
car name : Ferarri 201
car type : sports car
car name : Ferarri 301
car type : sports car

Current Element :supercars
company : Lamborghini
car name : Lamborghini 001
car type :
car name : Lamborghini 002
car type :
car name : Lamborghini 003
car type :

```