

APACHE XERCES PARSER - QUERY XML DOCUMENT

http://www.tutorialspoint.com/xerces/xerces_dom_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

```
package com.tutorialspoint.xml;

import javax.xml.parsers.DocumentBuilderFactory;
import javax.xml.parsers.DocumentBuilder;
import org.w3c.dom.Document;
import org.w3c.dom.NodeList;
import org.w3c.dom.Node;
import org.w3c.dom.Element;
import java.io.File;

public class QueryXmlFileDemo {

    public static void main(String argv[]) {

        try {
            File inputFile = new File("input.txt");
            DocumentBuilderFactory dbFactory =
                DocumentBuilderFactory.newInstance();
            DocumentBuilder dBuilder = dbFactory.newDocumentBuilder();
            Document doc = dBuilder.parse(inputFile);
            doc.getDocumentElement().normalize();
            System.out.print("Root element: ");
            System.out.println(doc.getDocumentElement().getNodeName());
            NodeList nList = doc.getElementsByTagName("supercars");
            System.out.println("-----");
            for (int temp = 0; temp < nList.getLength(); temp++) {
                Node nNode = nList.item(temp);
                System.out.println("\nCurrent Element :");
                System.out.print(nNode.getNodeName());
                if (nNode.getNodeType() == Node.ELEMENT_NODE) {
                    Element eElement = (Element) nNode;
                    System.out.print("company : ");
                    System.out.println(eElement.getAttribute("company"));
                    NodeList carNameList =
                        eElement.getElementsByTagName("carname");
```

```

        for (int count = 0;
            count < carNameList.getLength(); count++) {
            Node node1 = carNameList.item(count);
            if (node1.getNodeType() ==
                node1.ELEMENT_NODE) {
                Element car = (Element) node1;
                System.out.print("car name : ");
                System.out.println(car.getTextContent());
                System.out.print("car type : ");
                System.out.println(car.getAttribute("type"));
            }
        }
    }
} catch (Exception e) {
    e.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 : Lamborgini
car name : Lamborgini 001
car type :
car name : Lamborgini 002
car type :
car name : Lamborgini 003
car type :

```