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Lab 4: Parser

ITMD 455-02

3-15-17

*/\*\* Deborah Barndt  
 \* 2-26-17  
 \* XMLHandler.java  
 \* Lab 4  
 \* This program creates the handlers for the SAX XML Parser.  
 \* Written by Deborah Barndt.  
 \*/***package** com.example.u2.parser;  
  
**import** android.util.Log;  
  
**import** org.xml.sax.Attributes;  
**import** org.xml.sax.SAXException;  
**import** org.xml.sax.helpers.DefaultHandler;  
  
*/\*\*  
 \* Created by U53R on 3/15/2017.  
 \*/***public class** XMLHandler **extends** DefaultHandler  
{  
 String **elementValue** = **null**;  
 Boolean **elementOn** = **false**;  
 **public static** XMLGettersSetters *data* = **null**;  
  
 **public static** XMLGettersSetters getXMLData()  
 {  
 **return** *data*;  
 }  
  
 **public static void** setXMLData(XMLGettersSetters data)  
 {  
 XMLHandler.*data* = data;  
 }  
  
 *// This will be called when the tags of the XML starts.* @Override  
 **public void** startElement(String uri, String localName, String qName, Attributes attributes) **throws** SAXException  
 {  
 **elementOn** = **true**;  
  
 **if**(localName.equals(**"CATALOG"**))  
 {  
 *data* = **new** XMLGettersSetters();  
 }  
  
 *//else if(localName.equals("CD") && attributes.equals("yes"))* **else if**(localName.equals(**"CD"**))  
 {  
 **try** {  
 String attributeValue = attributes.getValue(**"attr"**);  
 *data*.setAttribute(attributeValue);  
 }  
  
 **catch**(Exception e)  
 {  
 Log.*i*(**"err on handler "**, e.getMessage());  
 }  
 }  
 }  
  
 *// This will be called when the tags of the XML end.* @Override  
 **public void** endElement(String uri, String localName, String qName) **throws** SAXException  
 {  
 **elementOn** = **false**;  
  
 *// Sets the values after retrieving the values from the XML tags.* **if**(localName.equalsIgnoreCase(**"title"**))  
 *data*.setTitle(**elementValue**);  
  
 **else if**(localName.equalsIgnoreCase(**"artist"**))  
 *data*.setArtist(**elementValue**);  
  
 **else if**(localName.equalsIgnoreCase(**"country"**))  
 *data*.setCountry(**elementValue**);  
  
 **else if**(localName.equalsIgnoreCase(**"company"**))  
 *data*.setCompany(**elementValue**);  
  
 **else if**(localName.equalsIgnoreCase(**"price"**))  
 *data*.setPrice(**elementValue**);  
  
 **else if**(localName.equalsIgnoreCase(**"year"**))  
 *data*.setYear(**elementValue**);  
  
 */\*else if(localName.equalsIgnoreCase("yes"))  
 data.setAttribute(elementValue);\*/* }  
  
 *// This is called to get the tags value.* @Override  
 **public void** characters(**char**[] ch, **int** start, **int** length) **throws** SAXException  
 {  
 **if**(**elementOn**)  
 {  
 **elementValue** = **new** String (ch, start, length);  
 **elementOn** = **false**;  
 }  
 }  
}