A Developer Diary {about:"code learn and share"}



About

June 9, 2015 By Abhisek Jana — 11 Comments (Edit)

Compare 2 XML in JAVA - Part 1

```
swatch image="burgundy_cardigm.ge"
swatch image="red_cardigan.jpg"
watch image="navy_cardigan.jpg"
watch image="burgundy_cardigan.jpg"
watch image="burgundy_cardigan.jpg"
atch image="black_cardigan.jpg"
tion="Large"
ch image="navy_cardigan.jpg"
h image="black_cardigan.jpg"
h image="black_cardigan.jpg
```

There are many ways to compare 2 XML in Java, however we will see here one of the process that I follow. I have split this in two seperate parts. The Part1 is about how to use the APIs in order to compare the XML and Part2 would explain how to utilize that and create a SWT/Eclipse RCP Application to visually represent the differences.

I am using XMLUnit to compare two XML. I found that it's one of the best usable API that can be pluged into the code easily. Lets see how this API works.

Download XMLUnit:

You can go to http://www.xmlunit.org/ and download the latest JAR for Java. I am using the 1.6 version since at this the version 2.0 is still in development. I got it from maven repository, here is the

link http://mvnrepository.com/artifact/xmlunit/xmlunit

Configuration:

You can configure the initial details using the static methods. XMLUnit provies few functions for setting the Ignore XML Attribute, Comments, whitespace etc. For our use we will set all the following options to true.

```
XMLUnit.setIgnoreAttributeOrder(true);
XMLUnit.setIgnoreComments(true);
XMLUnit.setIgnoreDiffBetweenTextAndCDATA(true);
XMLUnit.setIgnoreWhitespace(true);
XMLUnit.setNormalizeWhitespace(true);
```

Code:

Here is the remaining code base:

```
String strGoldVersion=FileUtils.readFileToString(new
File("GoldCopy.xml"));
String strTestVersion=FileUtils.readFileToString(new
File("TestCopy.xml"));
Diff myDiff=null;
DifferenceListener myDifferenceListener = new
IgnoreTextAndAttributeValuesDifferenceListener();
try {
        myDiff = new Diff(strGoldCopy,strTestCopy);
myDiff.overrideDifferenceListener(myDifferenceListener);
} catch (SAXException | IOException e) {
        e.printStackTrace();
}
DetailedDiff myDiffd = new DetailedDiff(myDiff);
List allDifferences = myDiffd.getAllDifferences();
for(Difference diff:allDifferences){
        System.out.print(diff.getDescription()+" ");
```

```
System.out.print(diff.getId()+" ");
```

Test:

You can read through the code, its easy to understand. Now, to test this I have created 2 XML files.

Reminder

Tove

Jane

Dinner!

The following TestCopy.xml would be compared against the GoldCopy.xml.

Reminder

Tove

John

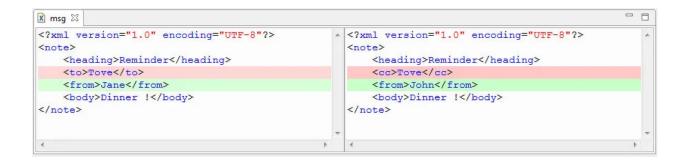
Dinner!

I ran the program and here is the result.

element tag name 10 /note[1]/to[1] /note[1]/cc[1]
text value 14 /note[1]/from[1]/text()[1]

/note[1]/from[1]/text()[1]

You can see in the result that the element tag & text difference was printed in the command prompt. Here is the screenprint of the application we will be creating using this. The error (element difference) will be highlited in RED and TEXT difference in GREEN.



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Comments



Vinay S Reddy says September 12, 2016 at 9:20 am

(Edit)

Hi, I need your help in the code. I am getting "List cannot be resolved to a type" when I copied the code from

https://www.adeveloperdiary.com/java/xml/compare-2-xml-in-java-part-1/.

I tried importing different import and still had issues. Please advise.

Reply



SFSZ says December 19, 2016 at 5:51 pm

(Edit)

List allDifferences = myDiffd.getAllDifferences();

System.out.println("Difference size: " + allDifferences.size());

for (int i = 0; i < allDifferences.size(); i++) {

Difference diff = (Difference) allDifferences.get(i);

System.out.print(diff.getDescription() + " ");

System.out.print(diff.getId() + " ");

```
System.out.print(diff.getControlNodeDetail().getXpathLocation() + " ");
System.out.print(diff.getTestNodeDetail().getXpathLocation() + " ");
System.out.println(" ");
}
Reply
```



Anil says
December 30, 2016 at 1:05 pm

(Edit)

You can use List allDifferences = myDiffd.getAllDifferences(); instead also

Reply



Anil says
December 30, 2016 at 1:07 pm

(Edit)

Use List(Difference) allDifferences = myDiffd.getAllDifferences();

Replace '(' with less than and ')' with greater than symbols

Reply



Preethi says February 14, 2017 at 8:25 am

(Edit)

Hi,

Can you please share me the complete source code to compare XML files.

Thanks and Regards, Preethi

Reply



Rakesh says May 2, 2017 at 7:08 am

(Edit)

Hi

Can you please share me the complete source code to compare XML files.

Thanks and Regards, Rakesh

Reply



Krishna says September 27, 2017 at 12:16 pm

(Edit)

Can you pls. give me the link for Part2

Reply



nanda says April 1, 2020 at 8:44 am

(Edit)

hi may i know on what bases your coloring tags in ui?

Reply



Abhisek Jana says April 5, 2020 at 12:15 am

(Edit)

Mm Dark Blue

Reply



Pavan says September 16, 2020 at 3:23 am

(Edit)

Hi,

Please share part-2 link

Thanks

Reply



Hiren says

November 10, 2021 at 6:48 pm

(Edit)

How would I do this if I had just of	ne XML file and wanted to compare two
nodes within that?	

•••

...

Reply

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