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Subject: Re: how to check specific end tag in a xml file?  
Posted by [Sender Ghost](#) on Thu, 22 Mar 2012 09:45:59 GMT  
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Hello, Ayana.

ayana wrote on Wed, 21 March 2012 11:57 How to check for a specific end tag in the large XML file while parsing it?

ayana wrote on Wed, 21 March 2012 11:57 The user enters a name in an edit field of GUI, if the name entered matches with the gathered text of 'name tag' the corresponding person details should get add to XMLTree.

There is XML reference example about methods to parse XML files with XmlParser and XmlNode. As well as AddressBookXML and AddressBookXML2 examples.

I will show you following source code about how to search "name" tag for specified names and changing found "person" data, using XmlNode:

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```
#include <Core/Core.h>
```

```
using namespace Upp;
```

```
#define TAG_AddressBook "AddressBook"  
#define TAG_person "person"  
#define TAG_name "name"  
#define TAG_surname "surname"  
#define TAG_address "address"  
#define TAG_email "email"
```

```
String PrintData(const XmlNode& node) {  
    const XmlNode& ls = node[0];  
    StringBuffer text;
```

```
    for (int i = 0, n = ls.GetCount(); i < n; ++i) {  
        const XmlNode& ll = ls[i];  
        if (ll.IsTag(TAG_person)) {  
            text << "- Person:\n";  
            const XmlNode& lname = ll[TAG_name];  
            if (!lname.IsVoid())  
                text << TAG_name << ": " << lname[0].GetText() << '\n';
```

```
            const XmlNode& lsurname = ll[TAG_surname];  
            if (!lsurname.IsVoid())  
                text << TAG_surname << ": " << lsurname[0].GetText() << '\n';
```

```
            const XmlNode& laddress = ll[TAG_address];  
            if (!laddress.IsVoid())
```

```

    text << TAG_address << ": " << laddress[0].GetText() << '\n';

    const XmlNode& lemail = ll[TAG_email];
    if (!lemail.IsVoid())
        text << TAG_email << ": " << lemail[0].GetText() << '\n';

    text << '\n';
}
}

return text;
}

void ChangeXmlText(XmlNode& node, const char *tag, const String& txt) {
    int q = node.FindTag(tag);
    if (q < 0) // Adding new tag in case of not found
        node.Add(tag).AddText(txt);
    else // Changing found tag
        node.At(q).At(0).CreateText(txt);
}

CONSOLE_APP_MAIN
{
    const Vector<String>& cmdLine = CommandLine();

    if (cmdLine.GetCount() == 0) {
        Cout() << "Specify XML file to load\n";
        return;
    }

    String fileName(NormalizePath(cmdLine[0]));

    // Loading contents of file to String
    const String data = LoadFile(fileName);
    if (data.IsVoid()) {
        Cout() << "Error, while loading '" << NormalizePath(fileName) << "' file\n";
        SetExitCode(1);
        return;
    }

    XmlNode node;
    try { // Trying to parse XML file
        node = ParseXML(data);
    }
    catch (XmlError e) {
        Cout() << "XmlError " << e << '\n';
        SetExitCode(1);
        return;
    }
}

```

```

}

if (node.GetCount() == 0 || node[0].GetTag() != TAG_AddressBook) {
    Cout() << "There is no following tag for XML file: " << TAG_AddressBook << "\n";
    return;
}

Cout() << "Existing data:\n" << PrintData(node);
// The names of persons for changing data
const String names[] = { "qw", "rer", "new name" };
const String text("*"); // some changed data
// Selecting contents of "AddressBook" tag
XmlNode& ls = node.At(0);

for (int j = 0, m = __countof(names); j < m; ++j) { // Iterate through names array
    bool found = false;
    for (int i = 0, n = ls.GetCount(); i < n; ++i) { // Iterate through "AddressBook" tags
        XmlNode& ll = ls.At(i);
        if (ll.IsTag(TAG_person)) { // Checking for "person" tag
            int q = ll.FindTag(TAG_name);
            if (q < 0)
                continue;
            // Selecting contents of "name" tag
            XmlNode& lname = ll.At(q).At(0);
            if (lname.GetText() == names[j]) { // Comparing names
                found = true;
                // Changing contents of "person" tag
                lname.CreateText(String().Cat() << names[j] << " *");

                ChangeXmlText(ll, TAG_surname, text);
                ChangeXmlText(ll, TAG_address, text);
                ChangeXmlText(ll, TAG_email, text);

                break; // in case of no duplicates
            }
        }
    }
}

if (!found) { // Adding new "person" tag with their contents, if name not found
    XmlNode& ll = ls.Add(TAG_person);
    ll.Add(TAG_name).AddText(names[j]);
    ll.Add(TAG_surname).AddText(text);
    ll.Add(TAG_address).AddText(text);
    ll.Add(TAG_email).AddText(text);
}
}

Cout() << "Changed data:\n" << PrintData(node);

```

```

fileName = AppendFileName(GetFileDirectory(fileName),
    String().Cat() << GetFileTitle(fileName) << " (changed)" << GetFileExt(fileName));
// Saving changed XmlNode(s) to different file path
if (SaveFile(fileName, AsXML(node)))
    Cout() << "Changed file '" << fileName << "' written successfully\n";
else
    Cout() << "Error, while writing '" << fileName << "' file\n";
}

```

With following XML file:

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```

<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
<!DOCTYPE AddressBook>
<AddressBook>
  <person>
    <name>qw</name>
    <surname>we</surname>
    <address>we</address>
    <email>er</email>
  </person>
  <person>
    <name>rer</name>
    <surname>ty</surname>
    <address>ui</address>
    <email>io</email>
  </person>
  <person>
    <name>oo</name>
    <surname>jlj</surname>
    <address>bh</address>
    <email>cft</email>
  </person>
</AddressBook>

```

You will get following output:

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Existing data:

- Person:

name: qw

surname: we

address: we

email: er

- Person:

name: rer

surname: ty  
address: ui  
email: io

- Person:  
name: oo  
surname: jlj  
address: bh  
email: cft

Changed data:

- Person:  
name: qw \*  
surname: \*  
address: \*  
email: \*

- Person:  
name: rer \*  
surname: \*  
address: \*  
email: \*

- Person:  
name: oo  
surname: jlj  
address: bh  
email: cft

- Person:  
name: new name  
surname: \*  
address: \*  
email: \*

Changed file 'C:\AddressBook (changed).xml' written successfully

and changed XML file:

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```
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
```

```
<!DOCTYPE AddressBook>
```

```
<AddressBook>
```

```
<person>
```

```
<name>qw *</name>
```

```
<surname>*</surname>
```

```
<address>*</address>
```

```
<email>*</email>
```

```
</person>
<person>
  <name>rer *</name>
  <surname>*</surname>
  <address>*</address>
  <email>*</email>
</person>
<person>
  <name>oo</name>
  <surname>jlj</surname>
  <address>bh</address>
  <email>cft</email>
</person>
<person>
  <name>new name</name>
  <surname>*</surname>
  <address>*</address>
  <email>*</email>
</person>
</AddressBook>
```