Subject: XML parsing error
Posted by TeCNoYoTTa on Wed, 16 Jul 2008 11:23:58 GMT
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hello

i am sorry if my Question was boring for you to solve but i dont know what is the proplem

i made this structer and class

```
struct message
{
 String title;
 String body;
 String popup;
 String link;
 String attachment;
};
class news
{
 private:
 message Current_Message;
 String sender;
 public:
 news(XmlParser Xml_File)
 {
  while(!Xml_File.IsTag())
   Xml_File.Skip();
  Xml_File.PassTag("root");
  while(!Xml_File.IsEof())
  {
   if(Xml_File.Tag("new"))
   {
    if(Xml_File.Tag("message"))
    {
     while(!Xml_File.End())
     {
      if(Xml_File.Tag("title"))
       Current_Message.title = Xml_File.ReadText();
      if(Xml_File.Tag("body"))
       Current_Message.body = Xml_File.ReadText();
      if(Xml_File.Tag("popup"))
       Current_Message.popup = Xml_File.ReadText();
      if(Xml_File.Tag("link"))
       Current_Message.link = Xml_File.ReadText();
      if(Xml_File.Tag("attachment"))
       Current_Message.attachment = Xml_File.ReadText();
      else
```

```
     {
      Xml_File.Skip();
      continue;
     }
     Xml_File.PassEnd();
    }
   }
   else if(Xml_File.Tag("sender"))
   {
    sender = Xml_File.ReadText();
   }
   else
    Xml_File.Skip();
  }
 }
}
 message GetMessage()
 {
  return Current_Message;
 }
 String GetSender()
 {
  return sender;
 }


};
```

this class takes xmlparser as constructor

and put the data in the private variables

when i call it from here


```
CISNotifier::CISNotifier() //project constructer
{
 CtrlLayout(*this, "Window title");

 HttpClient client;
 client.URL("http://cisclub.com/tecno/bta3/XML.xml");
 String content;
 content = client.ExecuteRedirect();
 XmlParser p(content);
 news obj(p);
 message m = obj.GetMessage();
 String s = obj.GetSender();
 static_text.SetText(s);
```

```
}
```

the program links but it dont work :S :S

please help me

you can check the xml file as the link is in the code

Subject: Re: XML parsing error
Posted by bytefield on Wed, 16 Jul 2008 21:32:35 GMT
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Well, you have some problems there ;
First, is better to don't do all that stuff in constructor because if XmlParser fail it raise an exception
and gui things get undone and appear other problems, because the exception is raised in
constructor.
Your program get linked and executed(you didn't know it run) but because you don't catch the
exception it finish immediately after start or it enter in a infinite loop while checking your xml
file(that depends on circumstances, in the state that you put it here it get in infinite loop and if you
try to correct it, then you will get some exceptions).
My advice is to use a construction like that in main function.
```
try
{
 XMLTestF().Run();
}
catch(XmlError xmlerror)
{
 PromptOK(GetLastErrorMessage());
}
catch(...)
{
 PromptOK("Unknow exception");
}
```
Other problem I've spotted is that you're not checking all xml tags and you're expecting that
"message" tag to appear after "new" tag, instead based on your file the tag "timing" follow "new"
tag, so your parsing loop get infinite because of that.
Verdict: Defective by design.

Andrei

Subject: Re: XML parsing error
Posted by TeCNoYoTTa on Wed, 16 Jul 2008 21:47:18 GMT
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```
  while(!Xml_File.IsEof())
 {
  if(Xml_File.Tag("new"))
  {
   if(Xml_File.Tag("message"))
   {
    while(!Xml_File.End())
    {
     if(Xml_File.Tag("title"))
      Current_Message.title = Xml_File.ReadText();
     if(Xml_File.Tag("body"))
      Current_Message.body = Xml_File.ReadText();
     if(Xml_File.Tag("popup"))
      Current_Message.popup = Xml_File.ReadText();
     if(Xml_File.Tag("link"))
      Current_Message.link = Xml_File.ReadText();
     if(Xml_File.Tag("attachment"))
      Current_Message.attachment = Xml_File.ReadText();
     else
     {
      Xml_File.Skip();
      continue;
     }
     Xml_File.PassEnd();
    }
   }
   else if(Xml_File.Tag("sender"))
   {
    sender = Xml_File.ReadText();
   }[B][SIZE=4]
   else
    Xml_File.Skip();[/SIZE][/B]
  }
 }
```

thanks

but isn't this else case must prevent infinite loop ??

the main proplem is that i dont totaly understand how these xml parsing functions work

---

You forgot to check for some tags...

```
  <date>
    <day>15</day>
    <month>7</month>
  </date>
  <time>
    <hours>19</hours>
    <minutes>35</minutes>
  </time>
</timing>
```
... and because of that you get in loop, check for EOF, than you check for "new" tag, after that you check for "message" tag but because the next tag is "timing" the else part get executed and there you check for "sender" and because the current tag isn't "sender" tag you skip to next tag. Now the current tag is "date" and you get to the begin of the loop. You check for "new" tag and because current tag is "date" that if never get executed and you cpu run that loop again and again.

Just go trough your program step by step and see what I've explained above.

Edit: Quote:but isn't this else case must prevent infinite loop ??
you should have an else case also for "new" tag.

Subject: Re: XML parsing error
Posted by TeCNoYoTTa on Wed, 16 Jul 2008 22:30:04 GMT
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thanks very much ......i appreciate your help

but please tell me what these functions do

 Xml_File.End()
 Xml_File.PassEnd()
 Xml_File.Skip()

Subject: Re: XML parsing error
Posted by captainc on Thu, 17 Jul 2008 13:50:34 GMT
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TeCNoYoTTa wrote on Wed, 16 July 2008 18:30thanks very much ......i appreciate your help
but please tell me what these functions do

 Xml_File.End()
 Xml_File.PassEnd()

Xml_File.Skip()

I agree with you on some confusion with the xml parsing functions.
Unfortunately, my gripe with the xml parser is that it requires a lot of code to make it work correctly.

 The End() function checks to see if the current token is an ending tag (Ie. </day>). At the same time, it will advance to the next token.
 The PassEnd() function calls End(). So it expects that you already known that the current token is an ending tag and you want to pass it and go to the next token. If it is not an ending tag, then it throws an exception.
 The Skip() function skips tokens till the next tag is reached, skipping over the ending tags as you go.

Note, tags specified like: <singletag attr1="value"/> will register as true for being an ending tag!
I was able to account for this through loops like:
XmlParser xp(xmlstr);
...
while(!xp.End()){
   if(xp.Tag("mytag")){
      //read attributes from tag
      if(xp.IsEnd()){xp.PassEnd();} //this checks for singletag case
   }else{ xp.Skip(); }
}

I wish there was a way to just convert an entire xml string into a hierarchy of vector/vector-maps!
Maybe I'll work on one.

Subject: Re: XML parsing error
Posted by mirek on Thu, 17 Jul 2008 17:19:17 GMT
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captainc wrote on Thu, 17 July 2008 09:50
I wish there was a way to just convert an entire xml string into a hierarchy of vector/vector-maps!
Maybe I'll work on one.

Is not XmlNode just that?

Mirek

Subject: Re: XML parsing error
Posted by captainc on Thu, 17 Jul 2008 18:55:09 GMT
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I didn't have much luck on XmlNode, but once I got the parsing working I didn't give it another thought. I'll give it a go. Thanks.