
Subject: Using DOM like XML parser

Posted by [zsolt](#) on Mon, 13 Nov 2006 20:55:38 GMT

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I wanted to try DOM (Document Object Model) like XML processing with XmlNode class. I modified AddressBook example to use that.

Additionally I made some changes to use ArrayCtrl columns and XML in a more safe way.

File Attachments

1) [AddressBookXMLDOM.zip](#), downloaded 2101 times

Subject: Re: Using DOM like XML parser

Posted by [zsolt](#) on Mon, 13 Nov 2006 22:35:02 GMT

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For fast reference, this is the new Open method, loading, parsing the XML file and putting its content to the ArrayCtrl:

```
void AddressBook::Open()
{
    if(!fs.ExecuteOpen()) return;
    filename = fs;
    array.Clear();
    try {
        String d = LoadFile(filename);
        XmlNode n = ParseXML(d);
        if(n.GetCount()==0 || n[0].GetTag() != "AddressBook")
            throw XmlError("No AddressBook tag in ");
        const XmlNode &ab = n[0];
        array.SetCount(ab.GetCount());
        for(int i=0; i < ab.GetCount(); i++){
            const XmlNode &person = ab[i];
            for(int j=0; j < person.GetCount(); j++){
                const XmlNode &prop = person[j];
                if(prop.IsTag(TAG_NAME)) array.Set(i, TAG_NAME, prop[0].GetText());
                else if(prop.IsTag(TAG_SURNAME)) array.Set(i, TAG_SURNAME, prop[0].GetText());
                else if(prop.IsTag(TAG_ADDRESS)) array.Set(i, TAG_ADDRESS, prop[0].GetText());
                else if(prop.IsTag(TAG_EMAIL)) array.Set(i, TAG_EMAIL, prop[0].GetText());
            }
        }
    }
    catch(XmlError &e) {
        Exclamation("Error reading the input file:& + DeQtf(e) );
    }
}
```

Subject: Re: Using DOM like XML parser
Posted by [mirek](#) on Mon, 13 Nov 2006 23:41:52 GMT
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Well, I must say you got me confused at first, but you are right - XmlNode is roughly equivalent of DOM...

Mirek

Subject: Re: Using DOM like XML parser
Posted by [mirek](#) on Mon, 13 Nov 2006 23:59:00 GMT
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But the example is not perfect - you should reimplement Save as well

Mirek

Subject: Re: Using DOM like XML parser
Posted by [zsolt](#) on Tue, 14 Nov 2006 01:05:10 GMT
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luzr wrote on Tue, 14 November 2006 00:59But the example is not perfect - you should reimplement Save as well

You are right

```
void AddressBook::Save()
{
    if(IsEmpty(filename)) {
        SaveAs();
        return;
    }
    XmlNode n;
    XmlNode &ab = n.Add(TAG_ADDRESSBOOK);
    for(int i=0; i < array.GetCount(); i++)
    {
        XmlNode &person = ab.Add(TAG_PERSON);
        person.Add(TAG_NAME).Add().CreateText(array.Get(i, TAG_NAME));
        person.Add(TAG_SURNAME).Add().CreateText(array.Get(i, TAG_SURNAME));
        person.Add(TAG_ADDRESS).Add().CreateText(array.Get(i, TAG_ADDRESS));
        person.Add(TAG_EMAIL).Add().CreateText(array.Get(i, TAG_EMAIL));
    }
    if(!SaveFile(filename, AsXML(n)))
        Exclamation("Error saving the file!");
}
```

File Attachments

1) [AddressBookXMLDOM-2.zip](#), downloaded 2041 times

Subject: Re: Using DOM like XML parser

Posted by [mirek](#) on Tue, 14 Nov 2006 14:02:47 GMT

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With your permission, I will add it as examples/AddressBookXML2.

Mirek

Subject: Re: Using DOM like XML parser

Posted by [zsolt](#) on Tue, 14 Nov 2006 14:25:07 GMT

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luzr wrote on Tue, 14 November 2006 15:02 With your permission, I will add it as examples/AddressBookXML2.

Thanks, maybe this example can help somebody
