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Subject: CParser: proposal of new functions  
Posted by [omari](#) on Wed, 16 May 2012 16:40:32 GMT  
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Hello ,

I have to load data in a Vector<TestCase>  
the struct of the data file is:

TEST CASE:

Name of Test case: TC\_0000

Test case version: 1

Author:

Date: 10/05/2012

Test type: nominal

SRD\_REQUIREMENT: SRD-REQ-0628

SRD version: G02

Precondition:

...

Description:

visit LoginPage

enter userID

....

Expected Result:

...

END OF TEST CASE

to do that i use CParser and i have added a couple of function:

in CParser.h:

```
bool IsId2(const char *s1, const char *s2) const;
bool IsId3(const char *s1, const char *s2, const char *s3) const;
bool Id2(const char *s1, const char *s2);
bool Id3(const char *s1, const char *s2, const char *s3);
String ReadId2() throw(Error);
String ReadId3() throw(Error);
String ReadUntil(int delim);
String ReadLine() {return ReadUntil('\n');}
```

the function ReadUntil is based on ReadOneString()

if you find this functions useful, i would be glad if you add them to CParser..

in CParser.cpp:

```

bool CParser::IsId2(const char *s1, const char *s2) const
{
    CParser p = *this;

    if (!p.Id(s1)) return false;

    return p.IsId(s2);
}

bool CParser::IsId3(const char *s1, const char *s2, const char *s3) const
{
    CParser p = *this;

    if (!p.Id(s1)) return false;
    if (!p.Id(s2)) return false;

    return p.IsId(s3);
}

bool CParser::Id2(const char *s1, const char *s2)
{
    CParser p = *this;

    if (!p.Id(s1)) return false;
    if (!p.Id(s2)) return false;

    *this = p;

    return true;
}

bool CParser::Id3(const char *s1, const char *s2, const char *s3)
{
    CParser p = *this;

    if (!p.Id(s1)) return false;
    if (!p.Id(s2)) return false;
    if (!p.Id(s3)) return false;

    *this = p;

    return true;
}

```

```
String CParser::ReadId2() throw(Error)
{
    String ret = "";
    ret << ReadId();
    const char* p = GetSpacePtr();
    ret << String(p, term - p);
    ret << ReadId();

    return ret;
}
```

```
String CParser::ReadId3() throw(Error)
{
    String ret = "";
    ret << ReadId();
    const char* p = GetSpacePtr();
    ret << String(p, term - p);
    ret << ReadId();
    p = GetSpacePtr();
    ret << String(p, term - p);
    ret << ReadId();

    return ret;
}
```

```
String CParser::ReadUntil(int delim)
{
    StringBuffer result;

    for(;;) {
        if(*term == delim) {
            term++;
            DoSpaces();
            return result;
        }
        else
            if(*term == '\\') {
                switch(*++term) {
                    case 'a': result.Cat('\\a'); term++; break;
                    case 'b': result.Cat('\\b'); term++; break;
                    case 't': result.Cat('\\t'); term++; break;
                    case 'v': result.Cat('\\v'); term++; break;
                    case 'n': result.Cat('\\n'); term++; break;
                    case 'r': result.Cat('\\r'); term++; break;
                    case 'f': result.Cat('\\f'); term++; break;
                    case 'x': {
```

```

int hex = 0;
if(IsXDigit(*++term)) {
    hex = ctoi(*term);
    if(IsXDigit(*++term)) {
        hex = 16 * hex + (*term >= 'A' ? ToUpper(*term) - 'A' + 10 : *term - '0');
        term++;
    }
}
result.Cat(hex);
break;
}
case 'u':
if(uescape) {
    int hex = 0;
    if(IsXDigit(*++term)) {
        hex = ctoi(*term);
        if(IsXDigit(*++term)) {
            hex = 16 * hex + (*term >= 'A' ? ToUpper(*term) - 'A' + 10 : *term - '0');
            if(IsXDigit(*++term)) {
                hex = 16 * hex + (*term >= 'A' ? ToUpper(*term) - 'A' + 10 : *term - '0');
                if(IsXDigit(*++term)) {
                    hex = 16 * hex + (*term >= 'A' ? ToUpper(*term) - 'A' + 10 : *term - '0');
                    term++;
                }
            }
        }
    }
}
result.Cat(WString(hex, 1).ToString());
}
else
    result.Cat(*term++);
break;
default:
if(*term >= '0' && *term <= '7') {
    int oct = *term++ - '0';
    if(*term >= '0' && *term <= '7')
        oct = 8 * oct + *term++ - '0';
    if(*term >= '0' && *term <= '7')
        oct = 8 * oct + *term++ - '0';
    result.Cat(oct);
}
else
    result.Cat(*term++);
break;
}
}
else {
if(*term == '\0')

```

```
    return result;
    result.Cat(*term++);
}
}
```

```
DoSpaces();
return result;
}
```

Thanks

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Subject: Re: CParser: proposal of new functions

Posted by [Sender Ghost](#) on Wed, 16 May 2012 19:08:14 GMT

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Hello, omari.

I think, you could do the same without changing the CParser class directly:

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

```
using namespace Upp;
```

```
class OmariCParser : public CParser {
public:
    bool IsId2(const char *s1, const char *s2);
    bool IsId3(const char *s1, const char *s2, const char *s3);
    bool Id2(const char *s1, const char *s2);
    bool Id3(const char *s1, const char *s2, const char *s3);
    String ReadId2() throw(Error);
    String ReadId3() throw(Error);
    String ReadUntil(int delim);
    String ReadLine() { return ReadUntil('\n'); }
```

```
OmariCParser(const char *ptr) : CParser(ptr) {}
```

```
OmariCParser(const char *ptr, const char *fn, int line = 1) : CParser(ptr, fn, line) {}
};
```

```
bool OmariCParser::IsId2(const char *s1, const char *s2)
{
    if (!Id(s1)) return false;
    return IsId(s2);
}
```

```
bool OmariCParser::IsId3(const char *s1, const char *s2, const char *s3)
```

```

{
if (!Id(s1) || !Id(s2)) return false;
return IsId(s3);
}

bool OmariCParser::Id2(const char *s1, const char *s2)
{
if (!Id(s1) || !Id(s2)) return false;
return true;
}

bool OmariCParser::Id3(const char *s1, const char *s2, const char *s3)
{
if (!Id(s1) || !Id(s2) || !Id(s3)) return false;
return true;
}

String OmariCParser::ReadId2() throw(Error)
{
String ret ="";

ret << ReadId();
const char* p = GetSpacePtr();
ret << String(p, term - p);
ret << ReadId();

return ret;
}

String OmariCParser::ReadId3() throw(Error)
{
String ret ="";

ret << ReadId();
const char* p = GetSpacePtr();
ret << String(p, term - p);
ret << ReadId();
p = GetSpacePtr();
ret << String(p, term - p);
ret << ReadId();

return ret;
}

String OmariCParser::ReadUntil(int delim)
{
StringBuffer result;

```

```

for(;;) {
    if(*term == delim) {
        term++;
        DoSpaces();
        return result;
    }
    else
        if(*term == '\\') {
            switch(++term) {
                case 'a': result.Cat('\\a'); term++; break;
                case 'b': result.Cat('\\b'); term++; break;
                case 't': result.Cat('\\t'); term++; break;
                case 'v': result.Cat('\\v'); term++; break;
                case 'n': result.Cat('\\n'); term++; break;
                case 'r': result.Cat('\\r'); term++; break;
                case 'f': result.Cat('\\f'); term++; break;
                case 'x': {
                    int hex = 0;
                    if(IsXDigit(++term)) {
                        hex = ctoi(*term);
                        if(IsXDigit(++term)) {
                            hex = 16 * hex + (*term >= 'A' ? ToUpper(*term) - 'A' + 10 : *term - '0');
                            term++;
                        }
                    }
                    result.Cat(hex);
                    break;
                }
                case 'u':
                    if(uescape) {
                        int hex = 0;
                        if(IsXDigit(++term)) {
                            hex = ctoi(*term);
                            if(IsXDigit(++term)) {
                                hex = 16 * hex + (*term >= 'A' ? ToUpper(*term) - 'A' + 10 : *term - '0');
                                if(IsXDigit(++term)) {
                                    hex = 16 * hex + (*term >= 'A' ? ToUpper(*term) - 'A' + 10 : *term - '0');
                                    if(IsXDigit(++term)) {
                                        hex = 16 * hex + (*term >= 'A' ? ToUpper(*term) - 'A' + 10 : *term - '0');
                                        term++;
                                    }
                                }
                            }
                        }
                    }
                    result.Cat(WString(hex, 1).ToString());
                }
                else
                    result.Cat(*term++);
            }
        }
}

```

```

break;
default:
if(*term >= '0' && *term <= '7') {
    int oct = *term++ - '0';
    if(*term >= '0' && *term <= '7')
        oct = 8 * oct + *term++ - '0';
    if(*term >= '0' && *term <= '7')
        oct = 8 * oct + *term++ - '0';
    result.Cat(oct);
}
else
    result.Cat(*term++);
break;
}
}
else {
if(*term == '\0')
    return result;
result.Cat(*term++);
}
}

DoSpaces();
return result;
}

CONSOLE_APP_MAIN
{
const String filePath = "TestCase.txt";
String text = LoadFile(filePath);

if (text.IsVoid()) {
    SetExitCode(1);
    Cerr() << "Unable to load " << filePath << "\n";
    return;
}

OmariCParser p(text);
try {
    // Parsing of text here
}
catch (OmariCParser::Error e) {
    Cerr() << "ERROR: " << e << '\n';
}
}

```

The good example is Esc parser, based on CParser.

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Subject: Re: CParser: proposal of new functions  
Posted by [cbporter](#) on Thu, 17 May 2012 08:04:08 GMT  
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I'm curious what on earth were you trying to achieve with this :

```
bool CParser::Id2(const char *s1, const char *s2)
{
    CParser p = *this;

    if (!p.Id(s1)) return false;
    if (!p.Id(s2)) return false;

    *this = p;

    return true;
}
```

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Subject: Re: CParser: proposal of new functions  
Posted by [omari](#) on Thu, 17 May 2012 09:31:35 GMT  
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Thank you all.

I post this message because i want to share this functions with others.

Here is an example of using functions Id2 () and ReadUntil ():

String name, date;

String str="request name: xxxxx \n request date: xxxxx";

CParser p(str);

```
if(p.Id2("request", "name"))
{
    p.PassChar(':');
    name=p.ReadUntil('\n');
}
else
if(p.Id2("request", "date"))
{
    p.PassChar(':');
    date=p.ReadUntil('\n');
}
```

and the function Id2() with a bit of comments:

```
bool CParser::Id2(const char *s1, const char *s2)
{
    // get a copy of the object
    CParser p = *this;

    // if not found s1 or s2, return false, dont change any thing in our object
    if (!p.Id(s1)) return false;
    if (!p.Id(s2)) return false;

    // if found s1 and s2, set the internal pointer of our object (term) to: after s2
    *this = p;

    return true;
}
```

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Subject: Re: CParser: proposal of new functions

Posted by [mirek](#) on Sun, 20 May 2012 15:07:21 GMT

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cbporter wrote on Thu, 17 May 2012 04:04I'm curious what on earth were you trying to achieve with this :

```
bool CParser::Id2(const char *s1, const char *s2)
{
    CParser p = *this;

    if (!p.Id(s1)) return false;
    if (!p.Id(s2)) return false;

    *this = p;

    return true;
}
```

Well, see the input file...

That said, I would rather use some other method, reading the input file line by line, separating anything before ':' to get id, and only use CParser on the rest of line.

I guess the line nature of file is something that is not quite compatible with CParser.

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Subject: Re: CParser: proposal of new functions  
Posted by [omari](#) on Tue, 22 May 2012 08:56:32 GMT

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Thanks a lot Mirek.

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