Subject: how to make an editfield accept only number or date? have any examples in the documentation?
Posted by BetoValle on Sat, 03 Oct 2020 15:56:28 GMT
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following the example in the AddressBook
imagining that the surname field would only accept numeric or date input.
I tried to understand the SetFilter but I couldn't get success.
is there something simpler that you can understand how to do?

Subject: Re: how to make an editfield accept only number or date? have any examples in the documentation?
Posted by BetoValle on Sat, 03 Oct 2020 17:06:49 GMT
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ops...only number i got it:

modify.surname.SetFilter(OnlyN);

where

```
int OnlyN(int x){

 if((x>=48) && (x<=57)){
  return x;
 }else{
  return false;
 }
}
```

as a date there would have to be a different type of filter to check the position of the number and the characters "/" or "-" delimiting the date.

How do I do that?

Subject: Re: how to make an editfield accept only number or date? have any examples in the documentation?
Posted by BetoValle on Sun, 04 Oct 2020 01:03:20 GMT

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Hi,

in search of understanding how to create a routine that detects data entry of the data type, (to enable validation or even to build formatting)I saw that they use the SetConvert feature. To try to understand how the logic of
use the reference:

Convert :: Convert () {}
Convert :: ~ Convert () {}

What is Convert? a structure? class? something equivalent?

---

Subject: Re: how to make an editfield accept only number or date? have any examples in the documentation?
Posted by BetoValle on Sun, 04 Oct 2020 01:10:41 GMT
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sorry I found it: is class in Convert.h

---

Subject: Re: how to make an editfield accept only number or date? have any examples in the documentation?
Posted by mirek on Sun, 04 Oct 2020 07:51:33 GMT
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You are on the right path!

Mirek

---

Subject: Re: how to make an editfield accept only number or date? have any examples in the documentation?
Posted by BetoValle on Sun, 04 Oct 2020 15:01:42 GMT
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Hi,

see:
... fld.SetConvert(DateIntConvert());
...struct DateIntConvertCls : Convert {

```
 virtual Value Format(const Value& q) const;
 virtual Value Scan(const Value& text) const;
 virtual int Filter(int chr) const;
     };
  ...Convert& DateIntConvert() {return Single<DateIntConvertCls>(); }
  .....

Value DateIntConvertCls::Format(const Value& q) const
{
    Date d = Date(1970, 1, 1) + q;
    LOG("in format" << "=" <<  d);
    return IsNull(q) ? String() : ::Format(Date(1970, 1, 1) + (int)q);
}
```

if i want show in "LOG" convert d to a string within

```
... String s = Format(d);  //(*)
... LOG("in format" << "=" <<  s );
```

an exception occurs and the test application aborts silently.
If Format (*) returns a String, what would be the problem / inspection?

---

Subject: Re: how to make an editfield accept only number or date? have any examples in the documentation?
Posted by BetoValle on Mon, 05 Oct 2020 02:51:02 GMT
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another related issue:

the editfield fld1 with "SetConvert" fld1.SetConvert(DateIntConvert())

is not receiving data according to the test code below:

```
void pkTestando:: onClick()
{
 Date d = Date ( 2020, 1, 1 );
 try
 {
  Value s = Format ( d );
  LOG ( "data " << s );
  fld1.SetData ( d );
 }
 catch ( ValueTypeError )
 {
```

```
  LOG ( "Failed Value conversion" );
 }
}
```

but if he decides to remove condition "SetConvert" the field receives content normally.

What happens ?? or in the condition using "SetCovert" how do I have to write the code?

---

Subject: Re: how to make an editfield accept only number or date? have any examples in the documentation?
Posted by mirek on Mon, 05 Oct 2020 12:34:49 GMT
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I am not sure: Are you doint this as experimenting / learning example, or you are just not aware about EditDate / EditInt yet?

In any case, look at EditInt code, it is just trivial extenstion of EditField and will explain you about everything about this topic...

Mirek

---

Subject: Re: how to make an editfield accept only number or date? have any examples in the documentation?
Posted by mirek on Mon, 05 Oct 2020 12:36:30 GMT
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Ah, third alternative: Maybe you want single field that contains either Date or int based only on what user entered?

Mirek

---

Subject: Re: how to make an editfield accept only number or date? have any examples in the documentation?
Posted by BetoValle on Mon, 05 Oct 2020 13:15:50 GMT
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(I didn't bother to change the name in the functions / classes of the whole prefix "int" but in reality I'm using it for "date")

see, these codes were made based on existing examples.
In the first case, curiously, a format function (inside another "format"

function of the inherited class) generates an exception (and should not).
In this situation, the content is "input date by the user", and the
setconvert was used as a filter so that in customizations,
it could evaluate the date entered. (is there a recursion occurring here ???)

Now in the second case it does not involve input by user, but it is the
same field where simply the same EditField (which uses setconvert)
cannot receive any date "with code". If you remove / disassociate the
setconvert from this editField, it will normally receive the date.

There are 2 problems! (see attached file / very simple example, with 1 field and 1 button/in the initial load of the program, the date is set to "dmy")
)

## File Attachments

1) pkTestando.7z, downloaded 346 times

---

Subject: Re: how to make an editfield accept only number or date? have any examples in the documentation?
Posted by BetoValle on Mon, 05 Oct 2020 15:43:51 GMT
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Well, I understood question # 2 only (you can disregard it). I was considering that the internal routines would do the conversion. But not. So I understand that when using a field and if associated with SetConvert in the numerical case, when shooting a value for this field in code, I will have to add a corresponding number between the difference of the desired date and the first of January 1970.

Question 1 remains and I believe that only you can clarify the reason for the Format function within another Format of the custom class, it generates an exception. Since the objective in this situation would be the instant that the value resulting from the SetConvert Format was automatically generated, internally the user could evaluate a String of the resulting date.

another problem that i see is that your example "SQLApp in Assembly examples", should not accept typing characters immediately after a valid date (i.e. 01/01/2020abcdef ...)
fld borrowed!

In the code I attached in the previous post i put in filter this content:

```
if (chr> 57)
{
return false;
}
```
and in layout MaxChar = 10

---

Subject: Re: how to make an editfield accept only number or date? have any examples in the documentation?
Posted by mirek on Mon, 05 Oct 2020 22:33:51 GMT
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You have got it almost right! Great achievement for the first try.

I have fixed some small issues to make it work...

Mirek

File Attachments
1) pkTestando.7z, downloaded 346 times

Subject: Re: how to make an editfield accept only number or date? have any examples in the documentation?
Posted by BetoValle on Mon, 05 Oct 2020 23:54:48 GMT
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you are fine with life! this is very good!
little by little I gain understanding.
thank you very much!