The InPlaceEditor UserControl

# Description

I want to create a user control (InPlaceEditor) that displays some data. Let’s call it Data. But also I want to let the user to edit the Data in place.

## Data object

I should be able to provide a Data object to the control (through binding from XAML). The Data can be of any type.

## Modes

The control should have two display modes:

* ViewMode - The Data is displayed but the user cannot edit it;
* EditMode - The user can edit the Data.

For each type of Data that I’ll use, I’ll make a set of two user controls, one to be used when InPlaceEditor is in the ViewMode and the other when it is in the EditMode.

I should be able to configure the InPlaceEditor from XAML at compile time with the Viewers and Editors for all types of Data that I’ll use.

Can I configure the InPlaceEditor at run time with the set of Viewers and Editors that are obtained from plugins?

## Types of Data

* Date (It can contain partial information. e.g. only the day or only the year)
  + Year - int (any number)
  + Month - int (1-12)
  + Day - int (1-31)
  + Description - string
* Address
  + Street - string
  + Number - string
  + ...
  + Description - string
* Phone
  + Number - string
  + Description - string
* etc.

In the following chapter I’ll describe the Viewer and Editor user controls for a Date object.

# ViewMode - for a Date object

## General

* On F2 key pressed: Switches to EditMode.

## Label

* Displays the date formatted.
* The format of the date should be provided as a parameter somehow. (e.g. XAML binding)
* On click: switch to EditMode.

# EditMode - for a Date object

## General

* While the control has focus:
  + ENTER key pressed: Does exactly what Save Button click does. If a button has focus, then that button’s click action is executed.
  + ESC key pressed: Does exactly what Cancel button click does.
* When committing the changes (in any way possible) the input data should be validated and, if any error exists, the corresponding input control should receive a red border. The commit process should be stopped.

## Day drop-down

* Values: The numbers from 1 to 31

## Month drop-down

* Values: the name of the 12 months in the current culture

## Year numeric up/down

* only numbers accepted
* min value: int.MinValue
* max value: int.MaxValue

## Description textbox

* Any text accepted
* Single line (no ENTER accepted)

## Save button

* On click: commits the changes (year, month, day, description) and switches to ViewMode

## Cancel button

* On click: switches to ViewMode without committing the changes.