DateTimeDurationPicker PCF

GO-ERP Practical Task

The PCF I developed will enhance the user experience for actions like inputting a date with separate start and end times, such as events, meetings, etc.

The component gives the user the option to select useful intervals of time such as 15 minutes, half an hour, etc., based on some customizable parameters.

Here the link to GitHub: https://github.com/marco-baldascino/PCF-DateTimeDurationPicker

To start, we’ll make a form with a DateTime field (from now on called “Event date” and a integer field (from now on called “Event duration”:

A white background with a black line

AI-generated content may be incorrect.

We’ll apply the PCF component on The “Event date” field (DateTime):

A screenshot of a computer

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Here we can see the input fields as shown:

* Event date – the DateTime bound field (it will hold the starting date of the event summing together the date part and the Start time part)
* Duration – the integer bound field (it will hold the value of the interval selected by the user – to bound on the existing “Event duration” field)
* Duration Intervals – this string field accepts comma separated numbers and will be used to decide how many and which intervals the End time picker will show)
* Time Format – this two options picker lets the user choose between either 12 or 24 hour formats to display the times
* Default to Current Time – this boolean picker lets the user choose:
  + TRUE - if the Start time picker should start from the closest rounded (by 5 minutes) available time (at system time, e.g., 22.30 if it’s now 22.26)
  + FALSE - if the Start time picker should start from 08.00 by default
* Event End Date – this output field will hold the value of the complete Date summed with the End time – useless now, but available for future uses ☺

Here’s an example of setting up the component:

A screenshot of a computer

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To go on and try the PCF, we can use the PCF App and Contact form I created for a simplified access:

A screenshot of a computer

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We can test the PCF in the Contact create form:

A screenshot of a computer

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The Event date field now displays a Date picker and two Time pickers, one for the Start and one other for the End of the event times.

A close-up of a computer screen

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Since we chose to show the Current time for the Start time picker and we also selected the 24 hour time format, we can see that the options for the Start time are the following:

A screenshot of a computer

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And since we input “10,20,30,imnotanumber,40,50,60” as the value for the Duration Intervals, the End time will show these results (note that any input value which is not parseable as a number will be ignored):

A grey rectangular object with white border

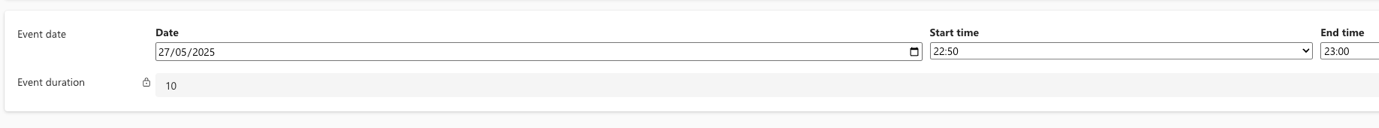
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By changing the Start date we can see how the End time picker also adjusts its values:

A screenshot of a chat

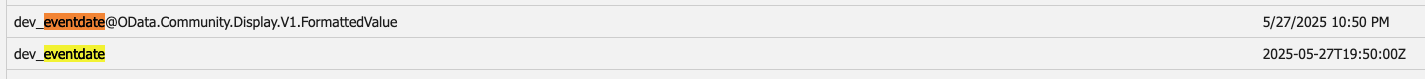
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The Event duration field will also display the chosen interval from the End time picker:



Changing the values in the customizable parameters will of course change the behaviour of the component.

If we check the real value of the Event date field by using Level-Up extension and reading the back-end values, we can also note how the formatted value reads the user browser time zone (showing for example 22.50) but saves the date in its UTC format (19.50, since in Vilnius it’s +3 at the moment).



It’s also possible to use this PCF in quick create forms:A screenshot of a computer

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Note:sorry for the unresponsive layout, it will be improved ☺