DateTimeEnhanced PCF

This PCF enhances a DateTime (full) Dynamics native field by adding some customizazions options.

The component gives the user the option to:

* Decide how to show the time part of the DateTime field (12 or 24 hours)
* Choose if the DateTime field starts by taking the system date and time or by 08.00 at the current date.
* (ADDED LOGIC) Following the logic of the native field, select useful intervals of time such as 15 minutes, half an hour, etc.

This component uses Fluent UI to be as close as possible to the standard UI from the native Dynamics fields.

Key features:

* The current/fixed date gets taken immediately at the control load, facilitating the input when creating a new record, while instead holding the saved value when opening an existing record.
* The time part is easily read based on user preferences (12 or 24 hours).
* The 15/30 steps for the time part make this PCF perfect for DateTime fields used for event-type situations.
* The layout is very similar to the original native field, “hiding” the customization by making it look very natural and not out of place.

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

Here is how the PCF customization screen appears:

A screenshot of a phone

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Here we can see the input fields as shown:

* DateTime field – the DateTime bound field
* 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 DateTime field gets the system date and time
  + FALSE – if the DateTime field starts from today at 08.00
* Note: whatever setting is chosen, the DateTime field only gets a new value if the starting value is null. This will make sure that reopening a form with a DateTime field with this PCF will not overwrite any saved value.
* (ADDED LOGIC) Duration Intervals – this field mimics the time blocks suggested by the native time picker and can be customized to show 15 or 30 minutes interval. I added this field even if not required to try to “copy” the native functioning as close as possible. Unfortunately I also noted it doesn’t let the user insert any custom value so it will need refining for sure ☺

After mounting on the PCF, we can see how the DateTime field shows the customized fields and options:

A screenshot of a phone

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The time part now shows the time options as decided in the customization part, plus the current time taken at the control load.A white rectangular object with a white border

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Note: I tried my best to work with this tricky positioning of a custom dropdown menu but unfortunately I didn’t come up with any solution to prevent Fluent UI from destroying it completely. This will need some refining before getting actually used ☺

If we check the real value of the DateTime 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, while the real value is saved correctly in UTC.



It’s also possible to use this PCF in quick create forms (use the “Quick create” field on the Event form to test):

A screenshot of a computer

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