Locale Date Time Picker Component

The Locale Date Time Picker component is a customizable interface that allows users to select both dates and times in various formats. It adapts to different locales, ensuring the date and time formats align with regional standards.

Functional Detail

1. Date Time Picker Initialization and Configuration

- **Locale and Format Configuration**: The date time picker supports multiple locales (fr-FR, en-US, en-GB) with corresponding date and time formats and placeholders.
- **Default Date**: The date time picker can be initialized with a pre-selected date & time value.
- **Read-Only Mode**: The date picker can switch to a read-only mode where it displays the date and time in a non-editable format.
- **Custom Time Dropdown**: The time dropdowns are customized to display time in 12-hour, or 24-hour formats based on locale settings, with placeholders adjusted accordingly.

2. User Interaction and UI Features

- **Icon Click to Open Calendar**: Clicking on the date picker icon opens the calendar.
- **Document Click to Close Calendar**: Clicking outside the date picker closes the calendar.
- **Inline Calendar Display**: The calendar is displayed in-line with the input field.
- **Custom Input Placeholder**: The input field displays a placeholder based on the selected locale.

3. Date Time Selection and Formatting

- **Date & Time Format Validation**: The input date and time is validated against the specified date and time format based on locale.
- **Date & Time Parsing and Display**: The date picker parses the input date and displays it in the configured format. Time dropdown also parses the input time value accordingly.
- **Clear and Today Buttons**: The footer of the calendar includes "Clear" and "Today" buttons to quickly clear the date or set it to the current date.

4. Custom Styles and Alignment

- **Text Alignment**: The date picker input and read-only display can have their text aligned based on the provided configuration.
- **Custom Year Dropdown**: The year dropdown is customized to display a range of 200 years centered around the current year.
- **Year and Month Navigation**: Users can navigate between months and years using dropdowns and buttons.

5. Saving of data

- **Saves the combined date and time string only if both date and time are present.**

Attributes

- **label** (Text): Text to display as the field label.
- **labelPosition** (Text): Determines where the label appears. Valid values: "ABOVE" (default), "ADJACENT", "JUSTIFIED", "COLLAPSED".
- **instructions** (Text): Supplemental text about this field.
- **helpTooltip** (Text): Displays a help icon with the specified text as a tooltip. The help icon does not show when the label position is "COLLAPSED".
- **required** (Boolean): Determines if a value is required to submit the form. Default: false.
- **disabled** (Boolean): Determines if the user is prevented from interacting with the field. Default: false.
- **validations** (List of Text String): Validation errors to display below the field when the value is not null.
- **height** (Text): Determines the layout height. Valid values: "SHORT", "MEDIUM", "TALL", "AUTO" (default).
- **showWhen** (Boolean): Determines whether the component is displayed on the interface. When set to false, the component is hidden and is not evaluated. Default: true.
- **valueDateTime** (Text): Value of selected Date & Time.
- **saveIntoDateTime** (List of Save): One or more variables that are updated with the date time value when the user changes it. Use a!save() to save a modified or alternative value to a variable.
- **locale** (Text): Date Locale, Default Value: en-US, Possible Values: fr-FR, en-US, en-GB
- **readOnly** (Boolean): Possible Value - true,false
- **align** (Text): Possible Value - Left, Center, Right
- **requiredMessage** (Text): Req Msg Parameter

Appian Version

- **Appian Site:** Version below 24.2 also supported
- **Appian Portal:** Min Version 24.2 required

Limitation

- Date Time Picker will not be pop-up based.
- Required Message Parameter will not work the same as Appian in-built date time picker component.

Date Time Picker UI

Initial Component Rendering on Page Load

Locale Date Time Picker *

| jj/mm/aaaa | 📅 | hh:mm |

On Click of Calendar icon, date picker will be expanded

Locale Date Time Picker *

| jj/mm/aaaa | 📅 | hh:mm |

| ‹ | Juillet ⌄ | 2024 ⌄ | › |

LUN	MAR	MER	JEU	VEN	SAM	DIM
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4
5	6	7	8	9	10	11

| AUJOURD'HUI | | | | | EFFACER |

Validation

Locale Date Time Picker *

| sadsad | 📅 | hh:mm |

Format de date invalide. Veuillez entrer une date valide
au format jj/mm/aaaa.

Read Only View

Locale Date Time Picker- Read Only View

10 juillet 2024 03:00

Appian Configuration Code

```
localeDateTimePicker(
  label: "Locale Date Time Picker",
  labelPosition: "ABOVE",
  required: true,
  validations: {},
  height: "AUTO",
  saveIntoDateTime: { local!dateSaveInto },
  valueDateTime: local!dateValue,
  locale: local!locale,
  readOnly: false,
  align: null,
  requiredMessage: null
),
```