SPFx Modern Calendar

Version 1.0

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# Requirement

plot SharePoint calendar events on a modern SPFx type calendar

[just view only]

must work with all day events, recurring events, regular events.

handle local time zone with correct date and times [SharePoint for the most part handles it]

React Big Calendar

<http://jquense.github.io/react-big-calendar/examples/index.html#basic>

# SPFx

property pane, SPFx, react, typescript, 3rd party libraries, use of PnP property pane controls, PnP-JS, Office UI fabric, building reusable components, managing parent child dependencies

# Extra Libraries

1. react-big-calendar
   1. <http://jquense.github.io/react-big-calendar/examples/index.html#basic>
   2. <https://github.com/jquense/react-big-calendar>
   3. <https://codesandbox.io/s/m5vr0wq5ox>
2. fullcalendar
   1. <https://github.com/SharePoint/sp-dev-fx-webparts/tree/master/samples/js-modern-calendar>
   2. <https://fullcalendar.io/#demos>
3. Pnp-JS
   1. To Get/Create List, Get Calendar Events
4. Moment
   1. To use the localization in the calendar events

# Functionalities

## Calendar in SharePoint

### Calendar List Provision

#### Check List Exists:

<https://sharepoint.stackexchange.com/questions/222547/spfx-pnp-js-core-check-if-list-exist-in-current-web>

#### Create Calendar list:

<https://www.c-sharpcorner.com/article/sharepoint-list-creation-using-pnp-js-and-spfx/>

(Calendar Template ID: 105)

## Calendar component in SPFx webpart

### Property Pane

1. WebPart Title
   1. **Default:** Modern Calendar
2. Event Background Color
   1. **Default:** lightblue
3. List Title - dropdown
   1. **Default:** Calendar

Create Link

1. Start Date Field
   1. **Default:** Start Time
2. End Date Field
   1. **Default:** End Time
3. Event Title Field
   1. **Default:** Title
4. Event Description Field
   1. **Default:** Description

### Calendar Plot

We can use either react-big-calendar/fullcalendar package

### Event Bind

We will get the calendar events using the pnp-js js and create JSON as per the expectation in the package. (e.g., <https://codesandbox.io/s/m5vr0wq5ox?file=/src/events.js>)

# Prototype

1. react-big-calendar: <https://m5vr0wq5ox.csb.app/>
2. full calendar: <https://fullcalendar.io/#demos>

Package trends:

<https://www.npmtrends.com/fullcalendar-vs-react-big-calendar>

# Tasks

* Check with the recurrence events in the react-big-calendar from the SharePoint Calendar.
  + <https://sohodragon.sharepoint.com/sites/NgageDev/_api/web/lists/getbytitle('Calendar')/items?$select=RecurrenceData>
* Create default Calendar list provision using the XML. **- Done**
* Create Custom property Pane with cascading **- Done**
  + <https://docs.microsoft.com/en-us/sharepoint/dev/spfx/web-parts/guidance/build-custom-property-pane-controls>
* Get the Web all list and fields for the selected list. **- Done**
  + <https://iamguptarishi.wordpress.com/2018/10/26/read-all-lists-views-fields-using-pnpjs-in-spfx-webpart/>
  + <https://sharepoint.stackexchange.com/questions/273921/property-web-does-not-exist-on-type-sprest>
* Set the default value once we get all List and Fields from the SharePoint. **– Done**
* Calendar Design issue **– Done**
  + <https://github.com/arecvlohe/rbc-with-dnd-starter/blob/master/src/App.js>
  + <https://github.com/arecvlohe/rbc-starter/blob/master/src/App.js>
* Calendar Event Binding JSON **– Done**
  + Custom selected column value in the JSON by internal name.
* Added the AllDayRecurrence column with below types considerations **– Done**
  + AllDayEvent
  + Boolean
* Start With the project creation and go on. **– Done**
* Bind the Event details in Popup on the event double click. **– Done**
* Popup button on click issue. **– Done**
* Description render as html instead of string.  **– Done**
* Background color event **– Done**
* Color picker for the background color and text color. **– Done**
* Recurrence Events
* Title default binding issue while change the List. – Working on it
  + It is working if we refresh the page manually.