checker-comp

checker-comp is a web component (Vue.js >= 2.5) that provides multiple checkboxes of items with a check image. The programmer can control the mode of the checking where one checkbox is checked and the previous check is unchecked; or multiple mode where any number of checkboxes can be checked.

- **checker-comp** can be installed via with the included `package.json` file for a local installation via the [npm install](#) command. **checker-comp** depends on the [vue.js](#) framework. A demo folder is provided that used [Parcel](#) together with its associated `package.json` file to bundle together **checker-comp** and its [vue.js](#) dependency for a simple application. Further details are provided below for running the demo.

Props

A prop in Vue.js is a custom attribute for passing information from a parent component hosting **checker-comp** instance(s) to a **checker-comp** as a child component.

checker-comp has the following props for a parent to bind to child:

`heading` -- a heading to be displayed above the checkbox list (string,default: null)

`items` -- the items that are to be checked or unchecked (array of objects -- see below for format, default null)

`single_check` -- selection mode is one check at a time (boolean, default: false)

`drop_panel_height` -- the height of drop down list panel (string, default: '100px')

`blur_panel` -- if false, will not roll up item panel when component is out of focus (boolean, default: true)

`css_variables` -- defines the css variables for **checker-comp** (object, default: null)

The `items` property is an array of objects where each object has a `text` and `checked` property key as in the following example:

```
items_dow: [
  {text: 'Sunday',checked: false},
  {text: 'Monday',checked: false},
  {text: 'Tuesday',checked: false},
  {text: 'Wednesday',checked: true},
  {text: 'Thursday',checked: false},
  {text: 'Friday',checked: false},
  {text: 'Saturday',checked: false}
]
```

Styling

The **css_variables** prop is a javascript object that contains any combination of css variable names as keys and associated values. The following list are the css variable names along with their default values for a quick styling of **checker-comp**:

```
{
    checker_comp_font_family: 'Verdana,serif',

    checker_comp_heading_color: 'black',
    checker_comp_heading_font_size: '1rem',
    checker_comp_heading_font_weight: 'bold',

    checker_comp_down_icon: '\21D3';
    checker_comp_icon_color: 'black',

    checker_comp_items_panel_position: 'static',
    checker_comp_items_panel_z_index: 'auto',
    checker_comp_items_panel_color: 'black',
    checker_comp_items_panel_background: 'white',
    checker_comp_items_panel_border: '1px solid black',

    checker_comp_checkbox_border: '1px solid black',
    checker_comp_notchecked_background: 'white',
    checker_comp_checked_background: 'yellowgreen',

    checker_comp_item_font_size: '.8rem'
}
```

As an example you could bind from the parent the following object to the `css_variables` prop for setting the heading font size and the panel background of **checker-comp** :

```
{checker_comp_heading_font_size: '24px', checker_comp_items_panel_background:
'lightblue'}
```

Note that multiple **checker-comp** children of the parent can each be bound to a unique set of `css_variable` prop objects. To enforce the same styling across all **checker-comp** children, simply bind just one `css_variable` prop object to all the **checker-comp** children.

Events

checker-comp has a single event that emits/notifies the parent component of the current checked items indices:

```
'checker_comp_checked_indices' -- returns indices of current checked items
```

The parent component can listen to the above event and know a **checker-comp**'s current checked indices for further processing. The demonstration section below illustrates how a parent can respond to this event. Events emitted from a child component back to the parent is explained at [Vue Custom Events](#).

Demonstration

One demonstration of **checker-comp** is provided in the folder named `demo` and can be viewed by hosting the `index.html` file under the `dist` folder. The demo (templated in the `App.vue` file) displays three independent **checker-comp** components along with buttons which when clicked will check additional items. In addition all three component parents listen to the `checker_comp_checked_indices` event and console.logs the current checked indices.

As a suggestion, install http-server locally/globally via npm then enter the command `http-server` in the **checker-comp** `dist` directory. From a browser enter the url: `localhost:8080/` to view the demo.

Here is some example code for using **checker-comp** taken from the demo:

```html
<checker-comp
  heading="Days of the Week"
  drop_panel_height="160px"
  :blur_panel="blur_panel"
  :items="items_dow"
  :css_variables="css_variables_days_of_week"
  v-on:checker_comp_checked_indices="dow_changed">
</checker-comp>
```

And the supporting data references:

```js
data() {
  return {
    blur_panel: false,
    items_dow: [
      {text: 'Sunday',checked: false},
      {text: 'Monday',checked: false},
      {text: 'Tuesday',checked: false},
      {text: 'Wednesday',checked: true},
      {text: 'Thursday',checked: false},
      {text: 'Friday',checked: false},
      {text: 'Saturday',checked: false}
    ],
    ...
    ...
    ...
    css_variables: {
      checker_comp_items_panel_position: 'absolute',
      checker_comp_items_panel_z_index: '100'
    }
  }
}
methods: {
  //method that responds to 'checker_comp_checked_indices' event
  dow_changed: function(indices){
    console.log(`Days of Week Indices: ${indices}`)
  },
  ...
  ...
  ...
}
```