

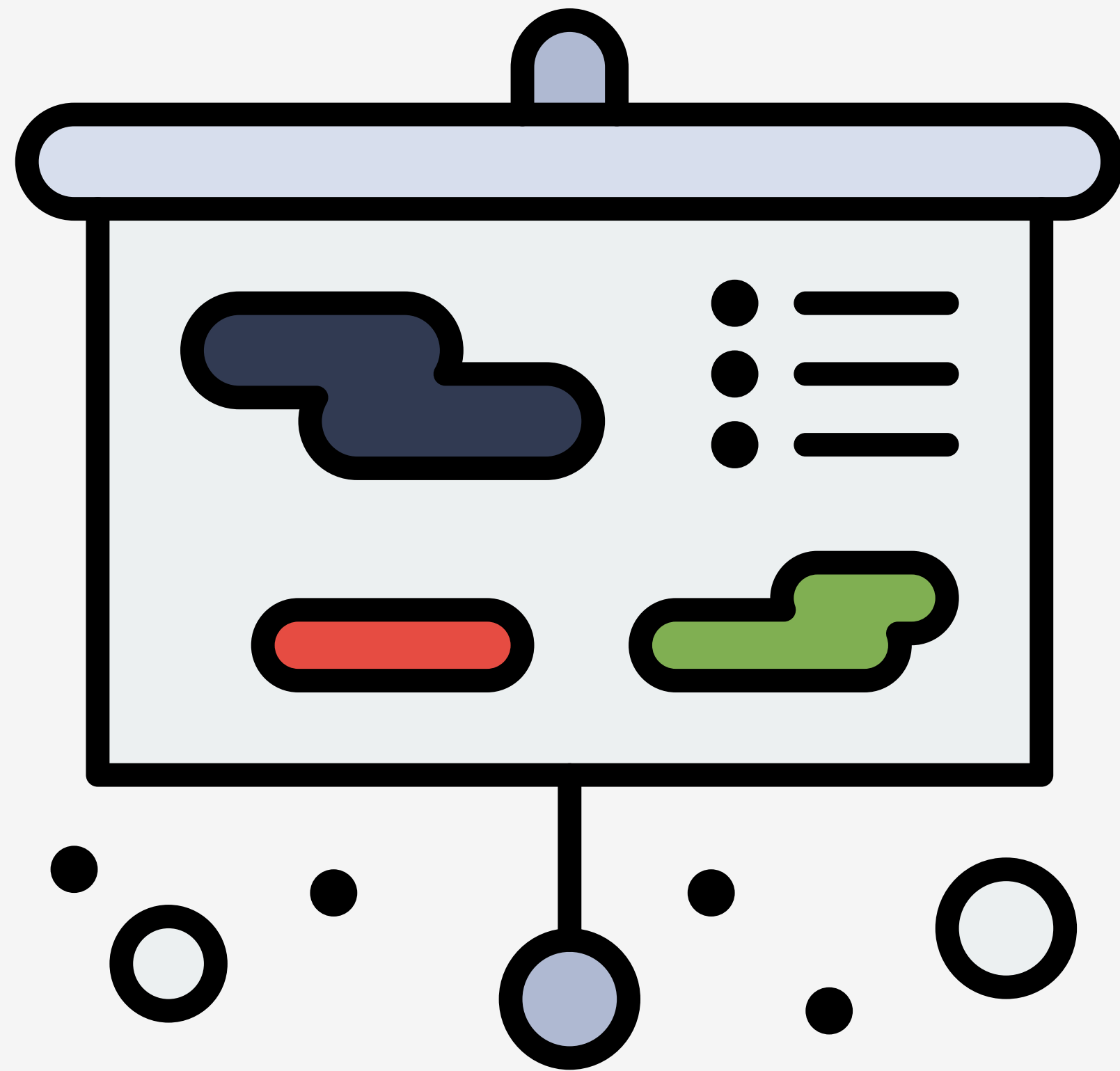
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# WEB PRODUCTION

## Lecture 4

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# TODAY'S TOPICS



- Vue Components
- Participation: Vuetip
- Exercise: Grocery List

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# ANNOUNCEMENTS



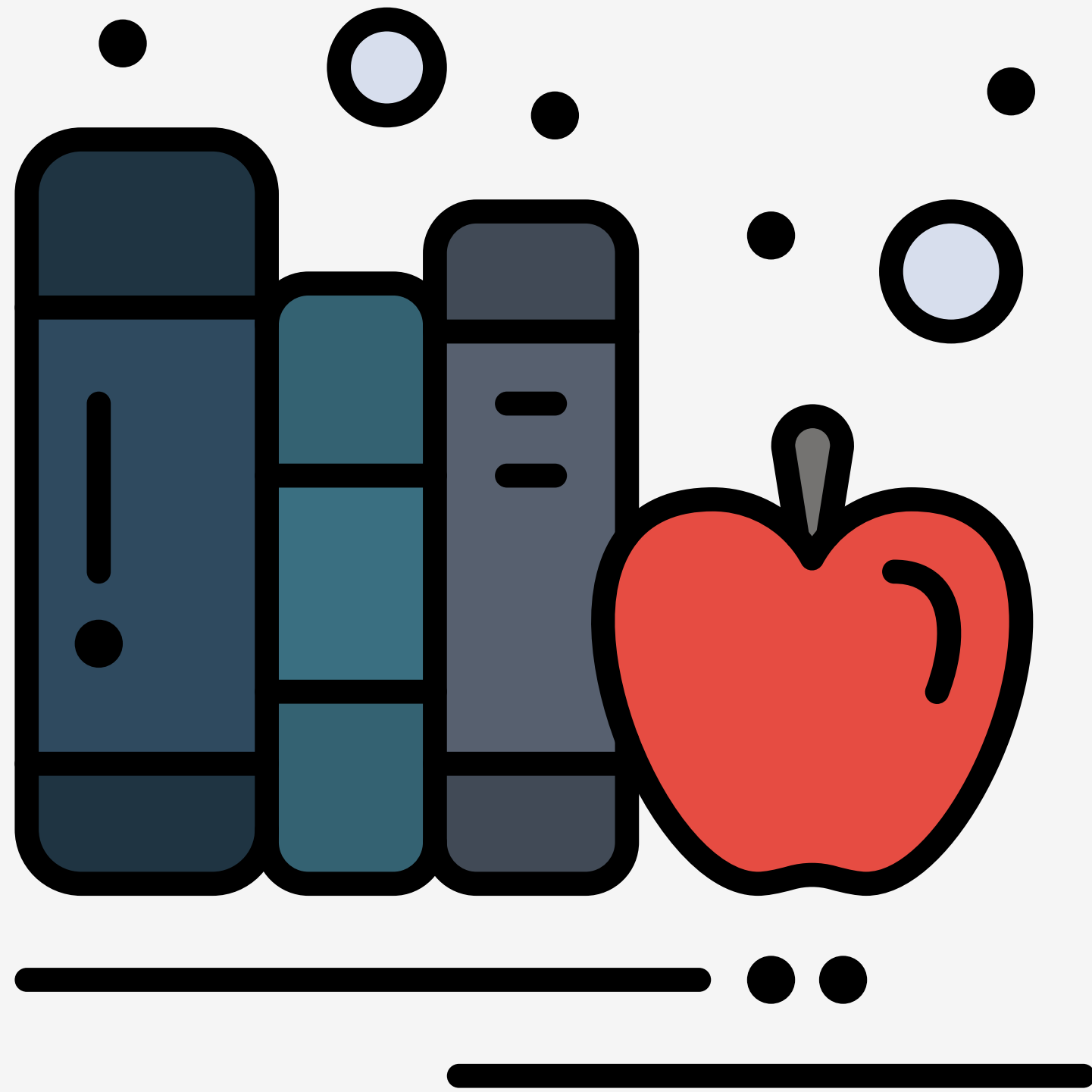
- Sign-in Sheet
- Recording
- Assignment Changes

**QUESTIONS**

# **VUE** COMPONENTS

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# VUE COMPONENTS



- **Components** are reusable Vue instances
- **Components** have their own names, data, methods and computed properties
- **Components** are used by adding custom elements
- **Components** can be defined by directing calling the **component** method of the Vue Class

# COMPONENTS

```
<div id="app">  
  <simple-button></simple-button>  
</div>
```

---

```
// Define a new component  
Vue.component('simple-button', {  
  template: `  
    <button class="btn btn-primary">  
      Click me!  
    </button>`  
})
```

```
new Vue({ el: '#app' })
```

---

# VUE COMPONENTS



- When adding the **data** property to a component a **function must be used**
- Component Templates must have a **single root element**
- Component Templates can include other component elements
- Component elements can be adding to the template syntax multiple times



# COMPONENTS

```
<div id="app">
  <simple-button></simple-button>
  <simple-button></simple-button>
  <simple-button></simple-button>
</div>
```

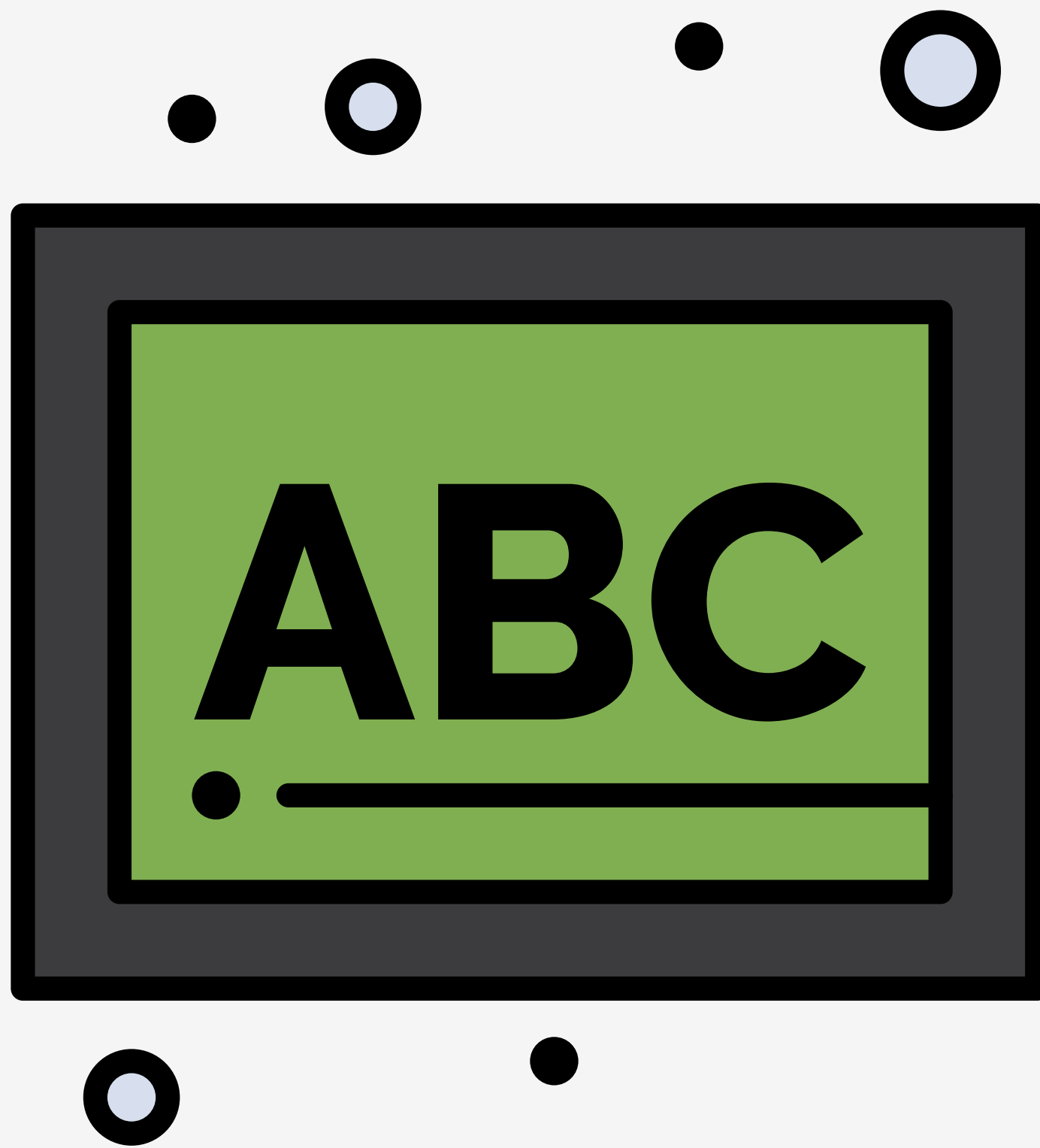
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```
Vue.component('simple-button', {
  data: function () {
    return {
      text: 'Click Me',
      type: 'success'
    }
  },
  template: `
    <button class="btn m-1" :class="'btn-'+type">
      {{ text }}
    </button>`
})
```

```
new Vue({ el: '#app' })
```

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# PROPS



- Props are custom attributes that can be added to a component
- Props are used to pass data to the component
- The v-bind directive can be used to dynamically create the props

# PROPS

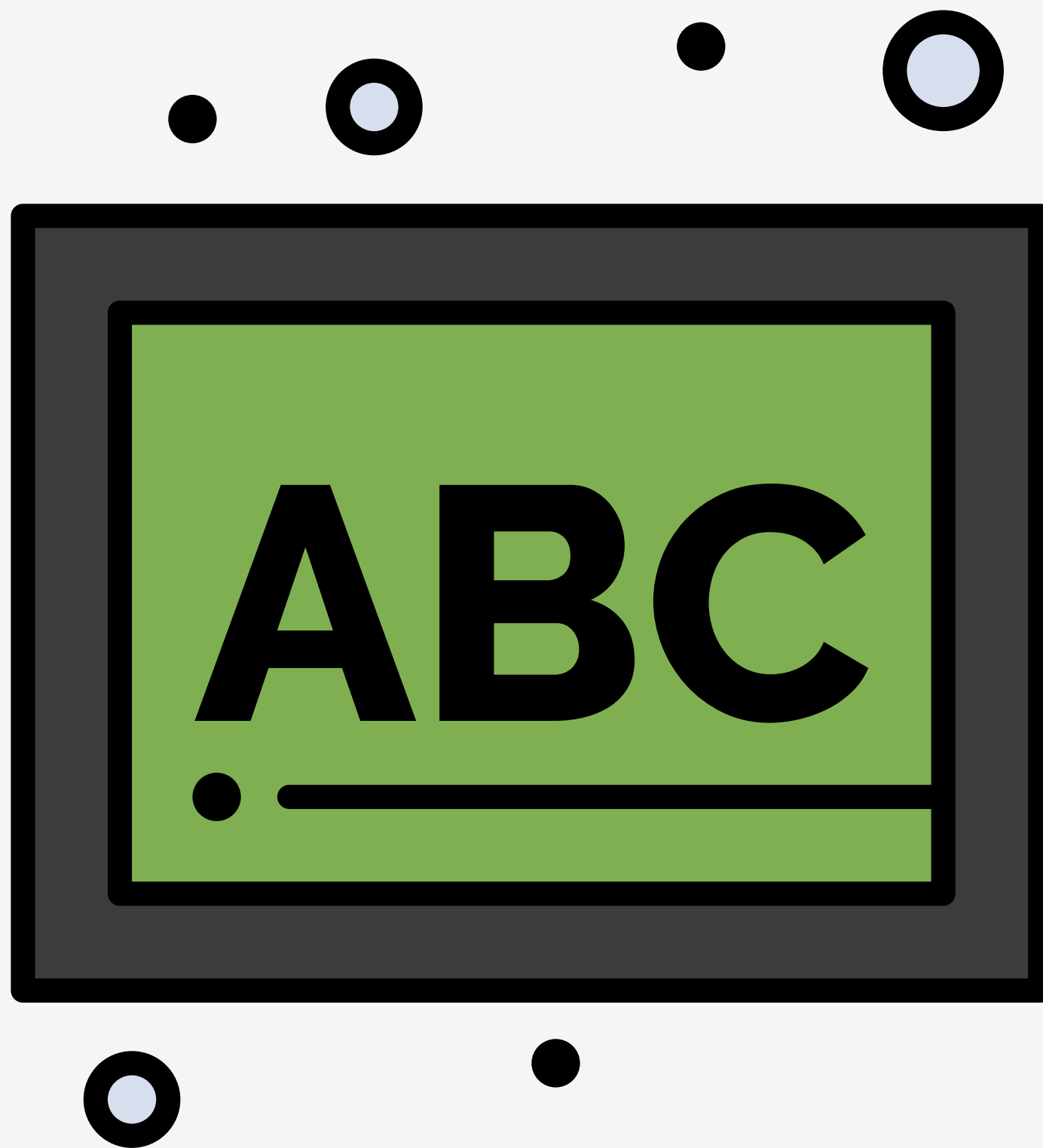
```
<div id="app">
  <simple-button
    v-for="button in buttons"
    :text="button.text"
    :type="button.type"
  ></simple-button>
</div>
```

---

```
Vue.component('simple-button', {
  props: ['text', 'type'],
  template: `<button class="btn m-1" :class="'btn-'+type">
    {{ text }}
  </button>`
})
```

```
new Vue({
  el: '#app',
  data: {
    buttons: [
      {text: 'Click Me', type: 'primary'},
      {text: 'No, Click Me', type: 'success'},
      {text: 'Please, Click Me', type: 'danger'}
    ]
  }
})
```

# SLOTS



- **Slots** are another to pass data to a component
- **Slot** data is passed between the component element tags
- **Slot** data can contain text, HTML or moustache syntax
- The `<slot></slot>` tag is use in the component template display the data

# SLOTS

```
<div id="app">
  <simple-button v-for="button in buttons" :type="button.type">
    <strong>{{ button.text }}</strong>
  </simple-button>
</div>
```

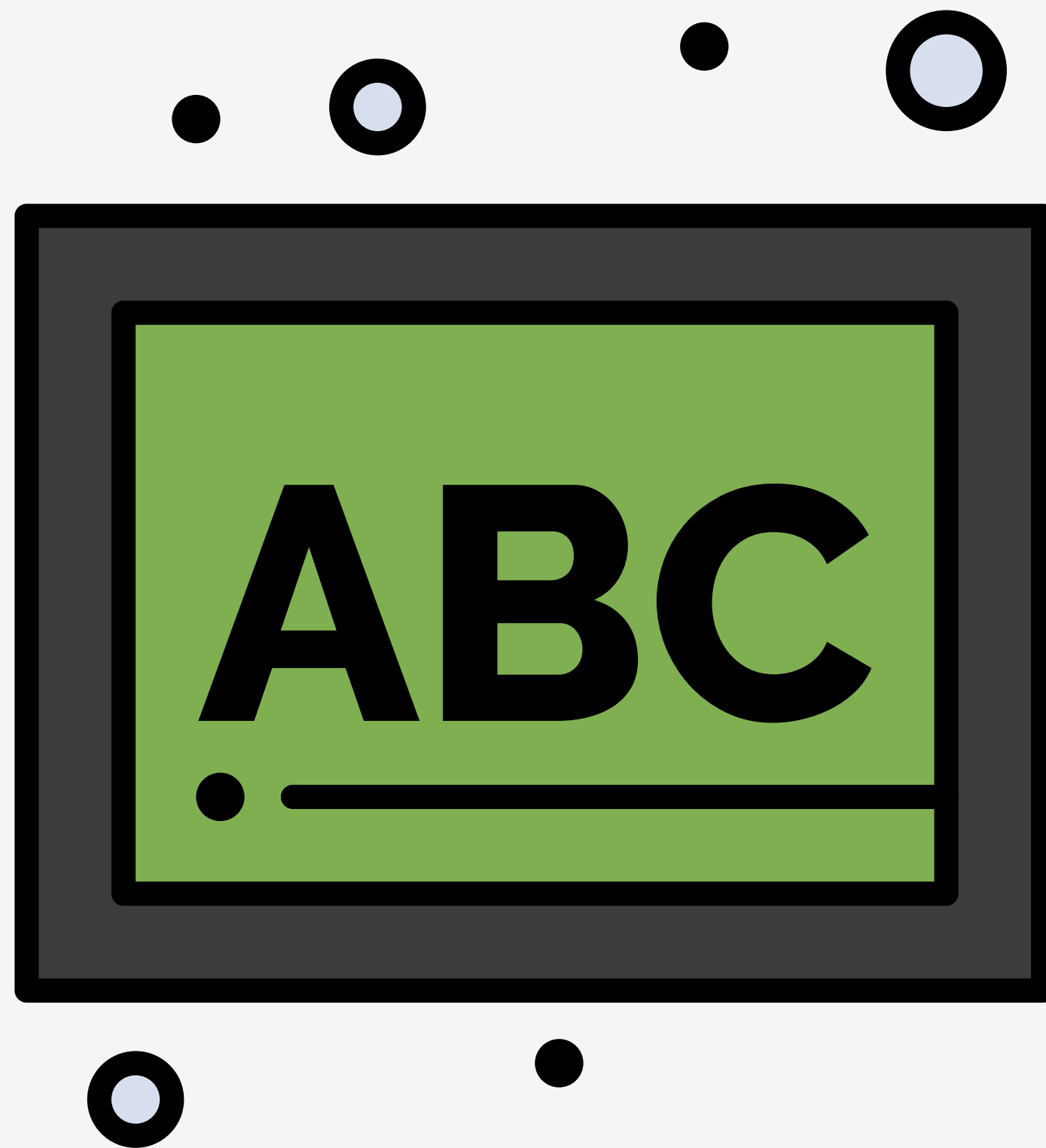
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```
Vue.component('simple-button', {
  props: ['type'],
  template: `
    <button class="btn m-1" :class="'btn-' + type">
      <slot></slot>
    </button>`
})
```

```
new Vue({
  el: '#app',
  data: {
    buttons: [
      { text: 'Click Me', type: 'primary' },
      { text: 'No, Click Me', type: 'success' },
      { text: 'Please, Click Me', type: 'danger' }
    ]
  }
})
```

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# METHODS



- Event handlers are added to the component template
- Components can have their own methods

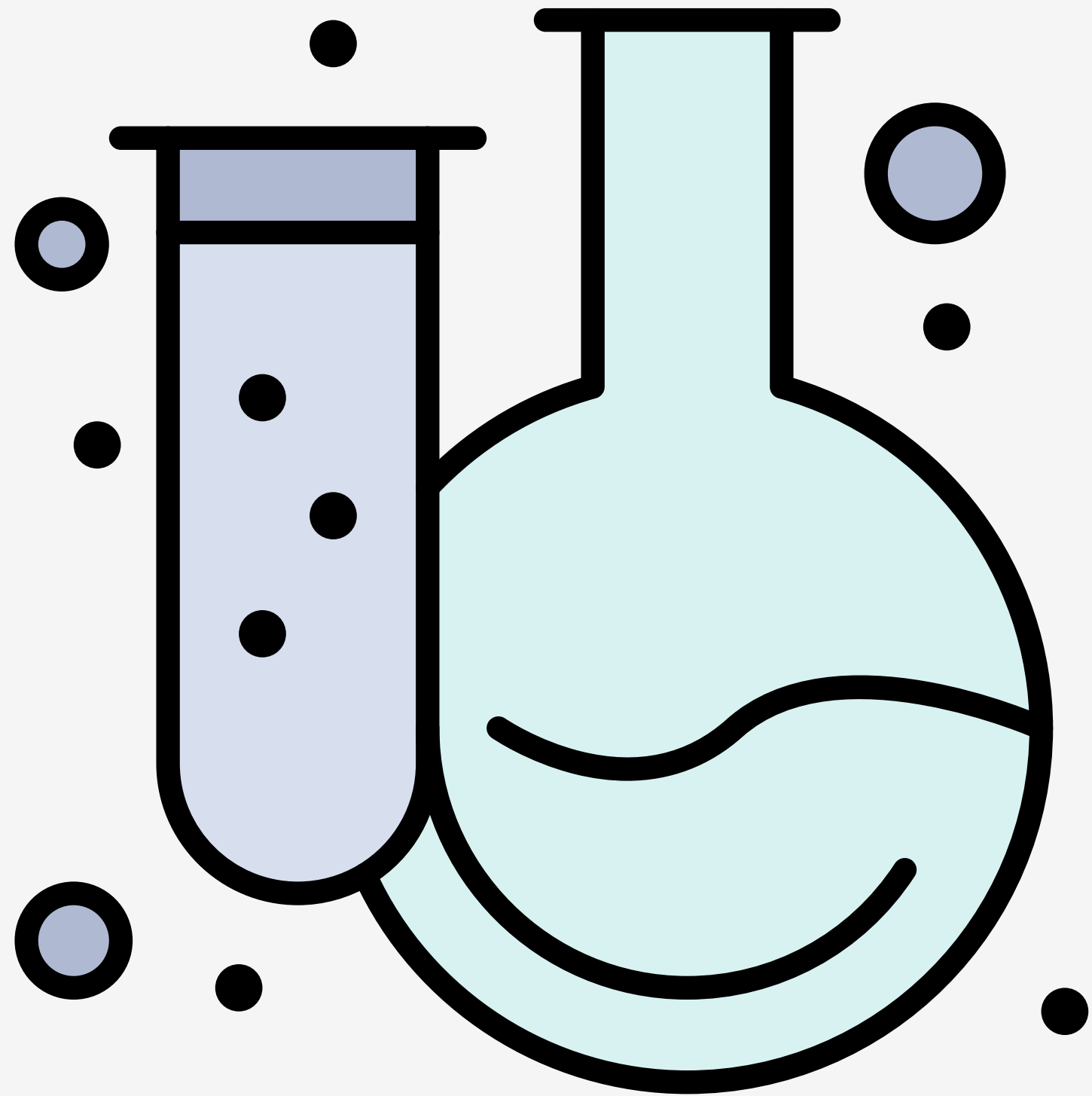
# METHODS

```
Vue.component('simple-button', {
  props: ['type'],
  methods: {
    action: function () {
      alert(this.type.toUpperCase())
    }
  },
  template: `
    <button class="btn m-1" :class="'btn-' + type" @click="action">
      <slot></slot>
    </button>`
})
```

```
new Vue({
  el: '#app',
  data: {
    buttons: [
      { text: 'Click Me', type: 'primary' },
      { text: 'No, Click Me', type: 'success' },
      { text: 'Please, Click Me', type: 'danger' }
    ]
  }
})
```

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# VUETIP



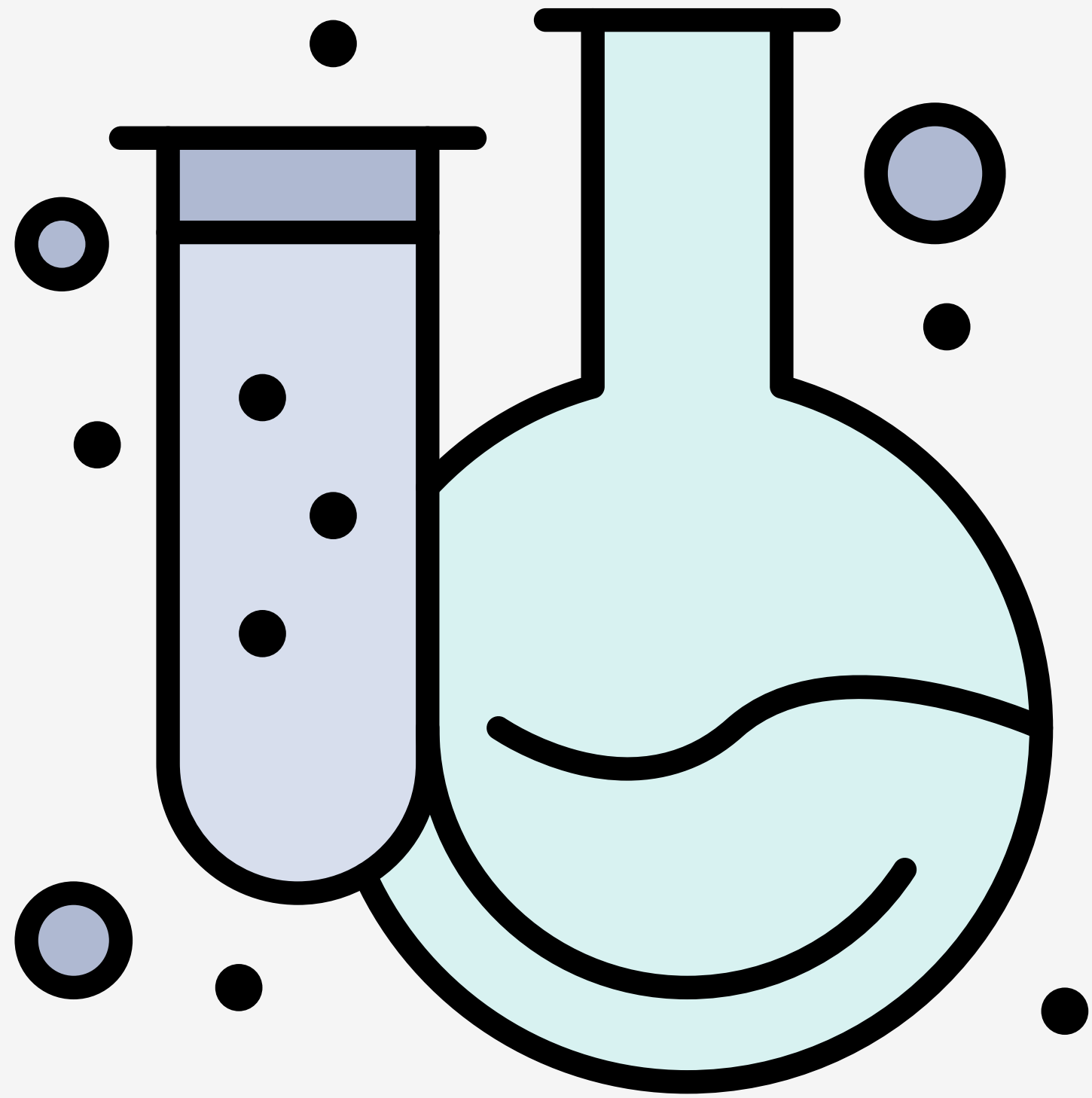
- *FORK THE PEN!*
- Create a reusable tooltip using a Vue component
- Submit the URL to your pen
- *DUE:* Mon. Jan 27 @ 11:59 PM



**HANDS-ON**

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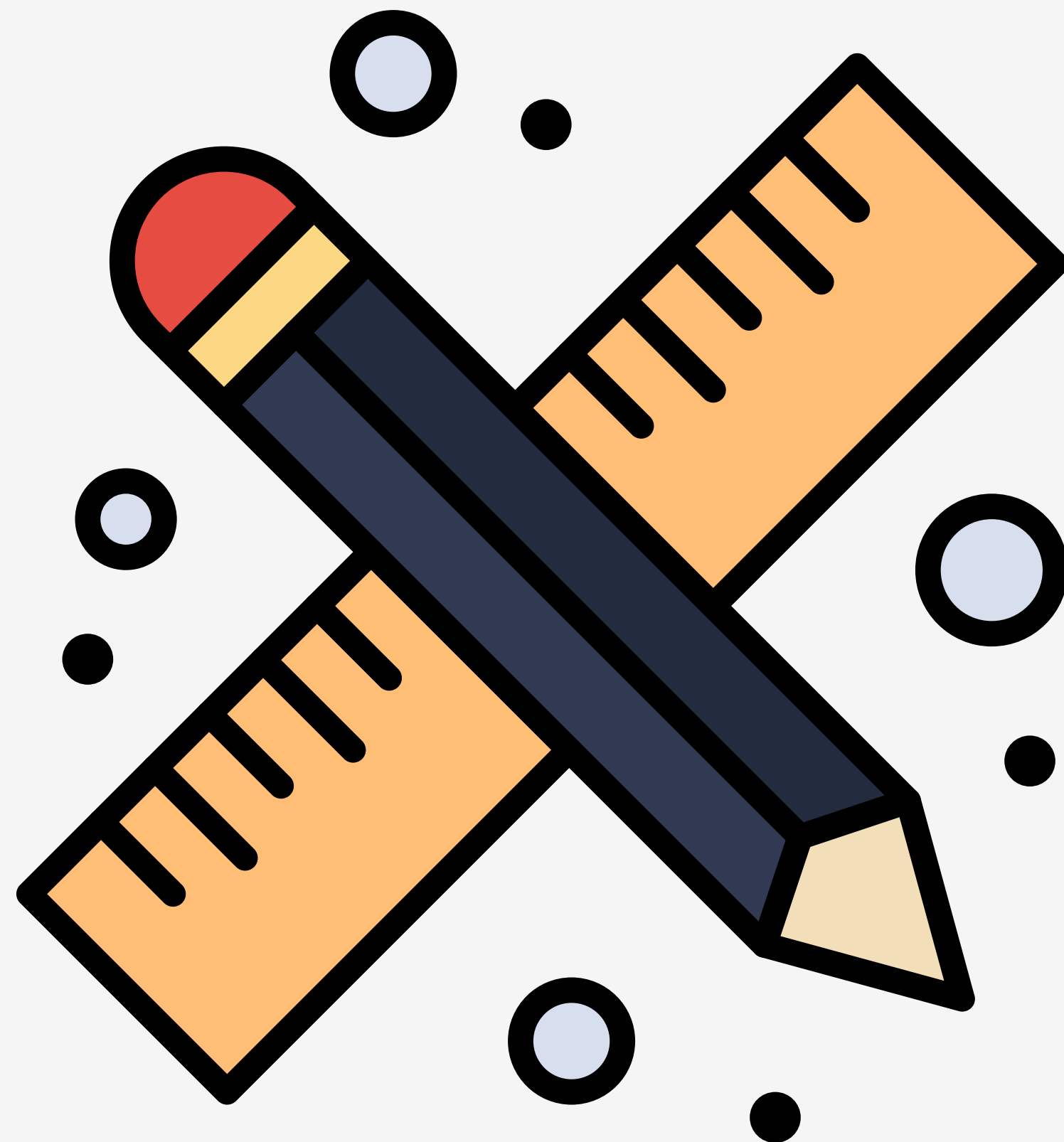
# HYBRID #2



- Watch the 4th section of [Learning Vue.js](#)
- Write 2 to 3 sentences
- ***DUE:*** Mon. Feb. 3 @ 11:59 PM

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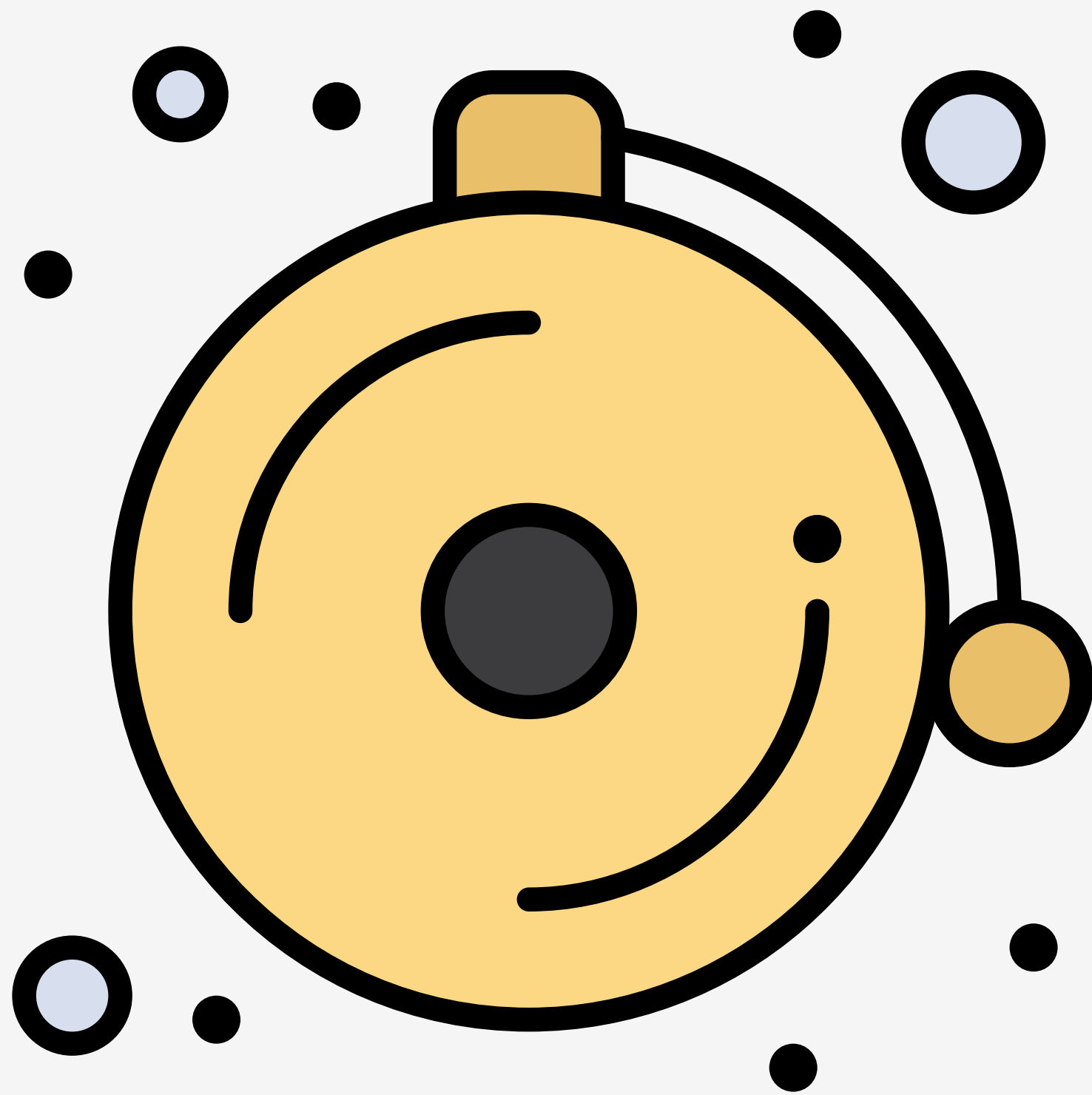
# GROCERY LIST



- *GITHUB CLASSROOM ASSIGNMENT*
- Create a simple grocery list web app
- Display items in their appropriate categories
- Allow user to add new items and cross out existing items
- Submit the URL to your repository
- *DUE:* Mon. Feb 10 @ 11:59 PM

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# NEXT TIME...



- Vue CLI
- **Project:** Event Calendar