VUE-2 GENERAL
EVALUATION

Quiz 1	15 %
Quiz 2	15 %
Final exam	70%

WHY THIS CLASS ?

.ENV FILE

TYPSCRIPT

BABEL

PRODUCTION PROCESS

JUMP INTO

AN *INDUSTRIAL* PROJECT

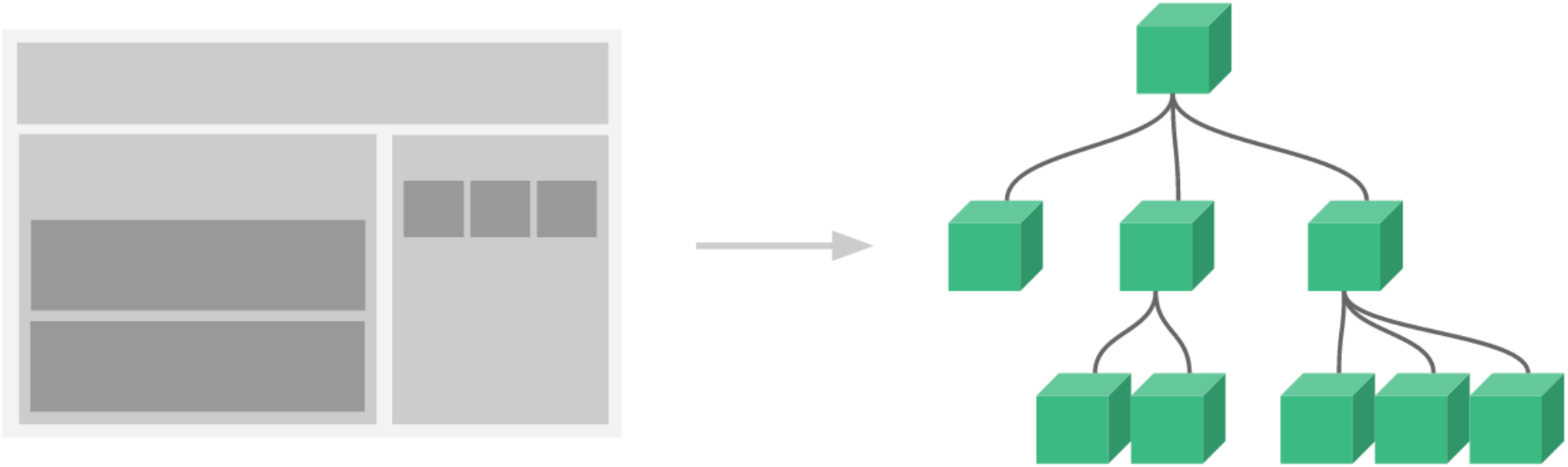
PWA SUPPORT

VUE ROUTER

VS CODE TOOLS

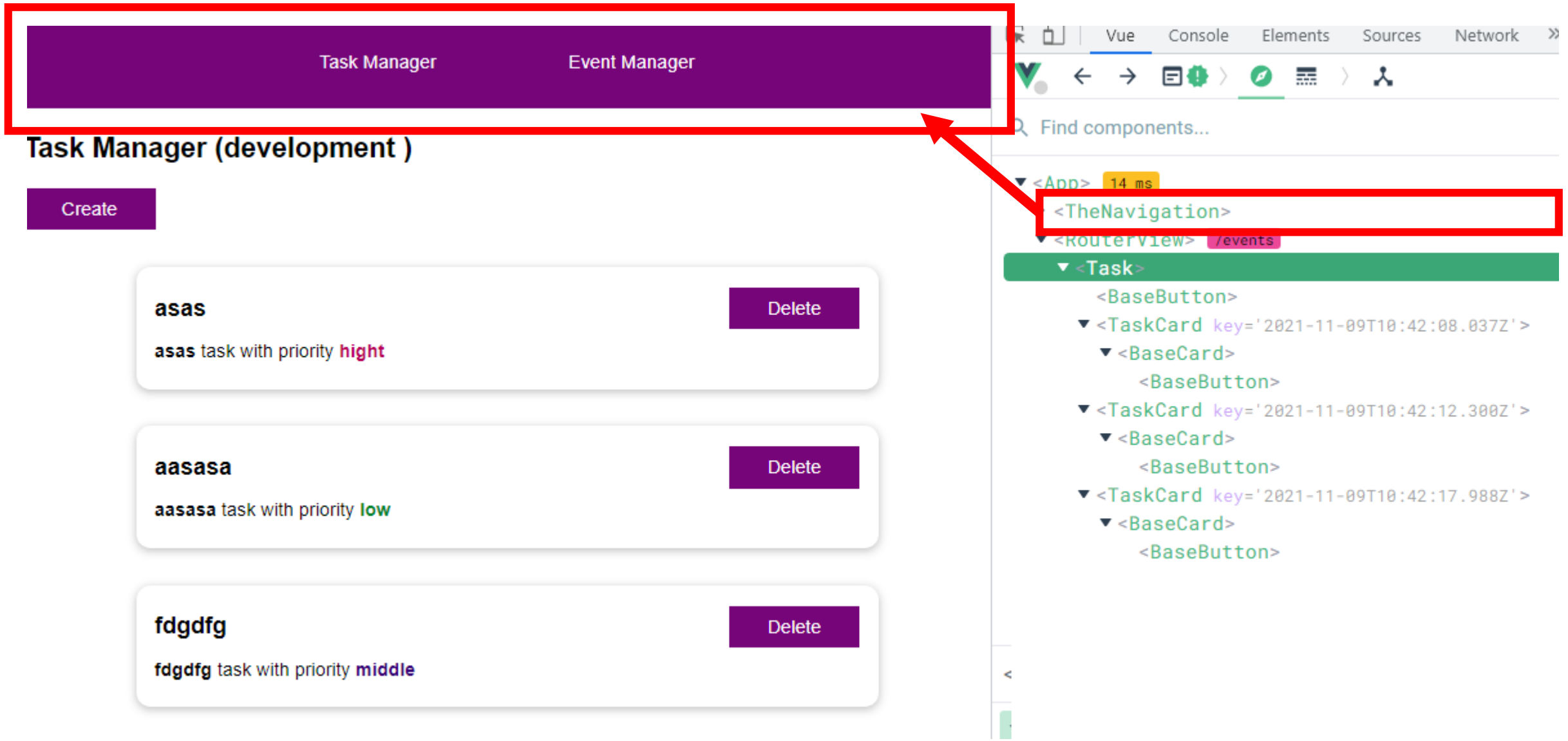
BUILD YOUR APP

AS A COMPOSTION OF COMPONENTS

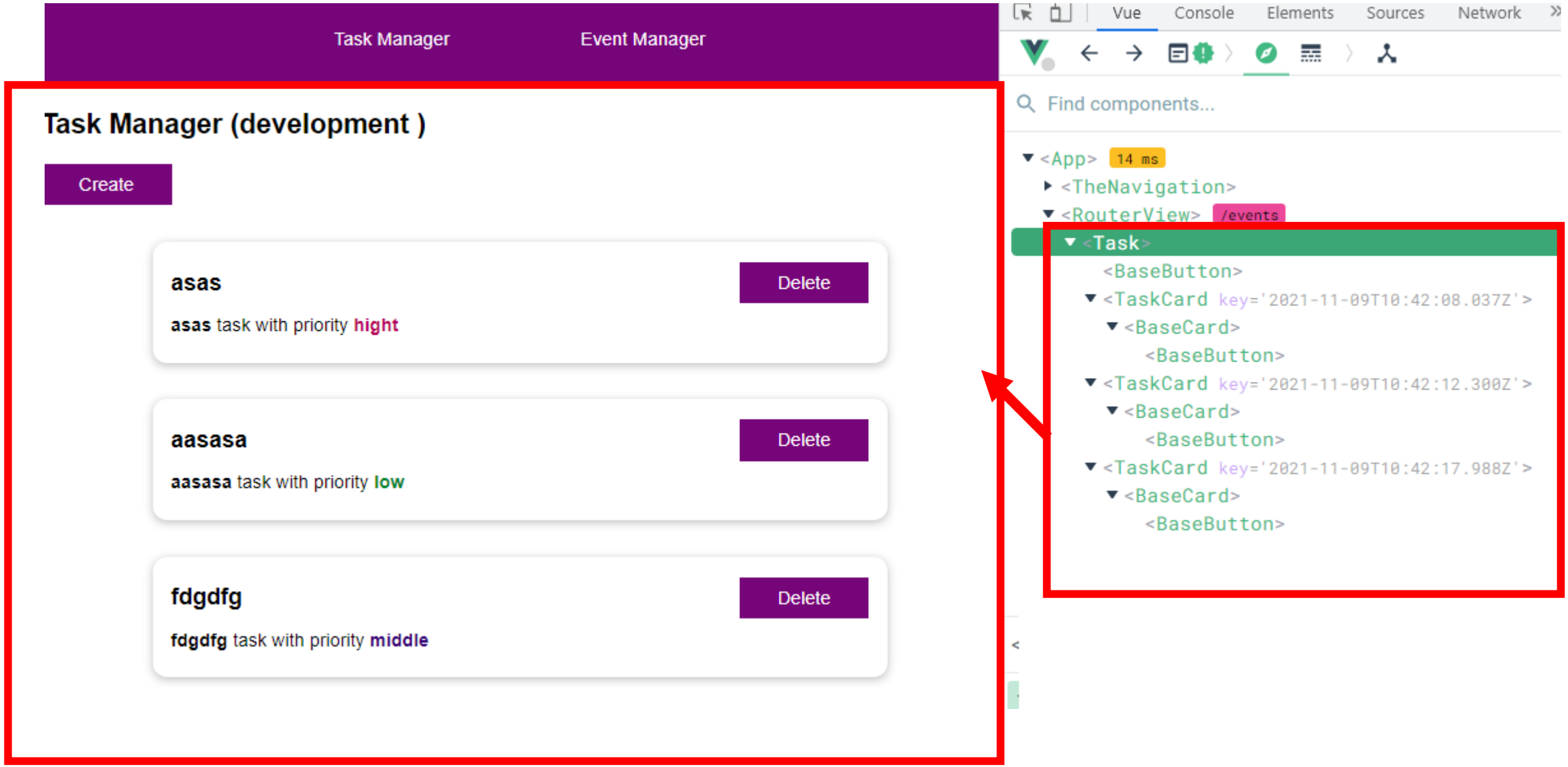


Create your OWN DOM components composing your application

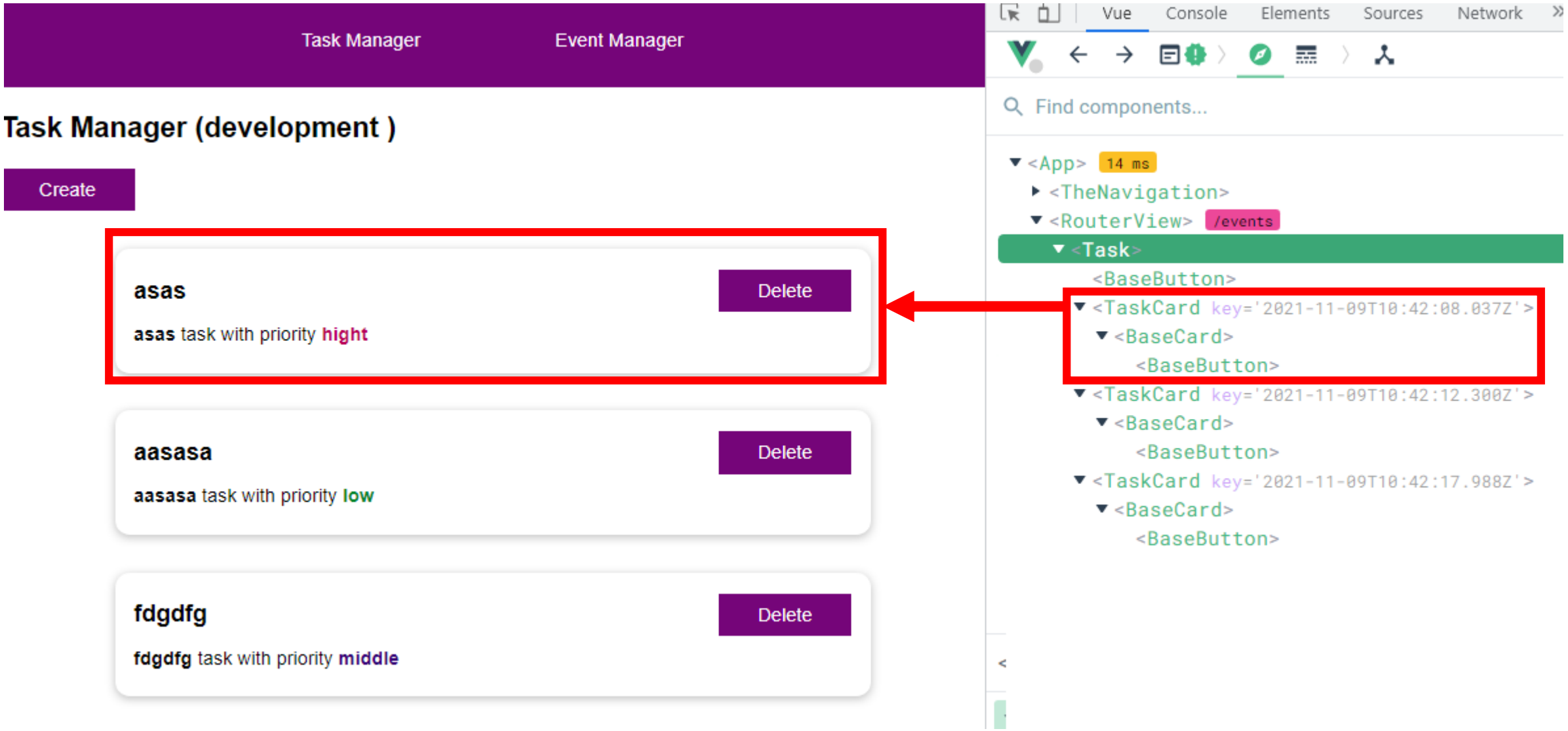
BUILD YOUR APP USING COMPONENTS



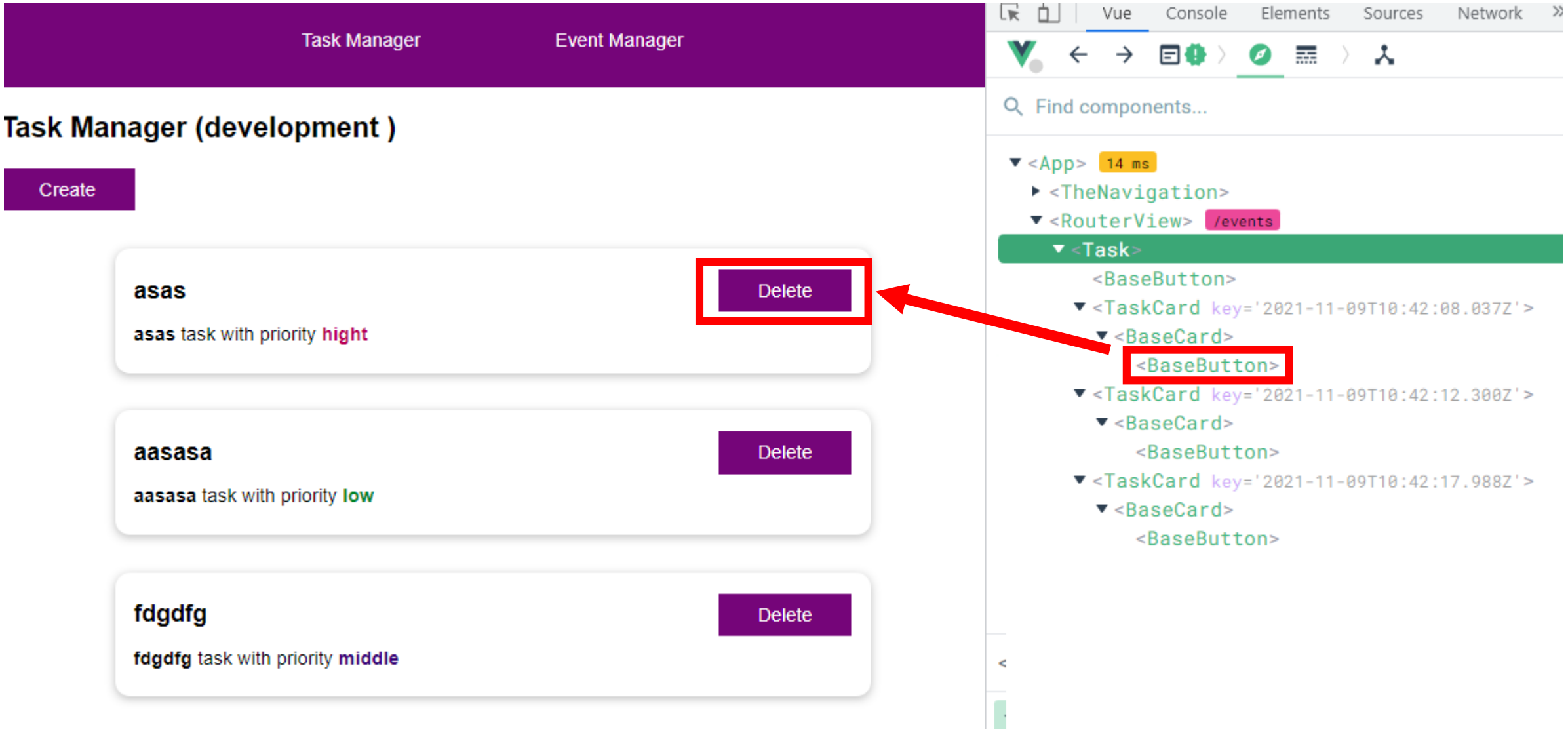
BUILD YOUR APP USING COMPONENTS



BUILD YOUR APP USING COMPONENTS



YOU CAN EVENT CREATE YOUR OWN **WIDGETS** AS COMPONENTS



COMMUNICATE BETWEEN **PARENT** & **CHILD** COMPONENTS

PARENT

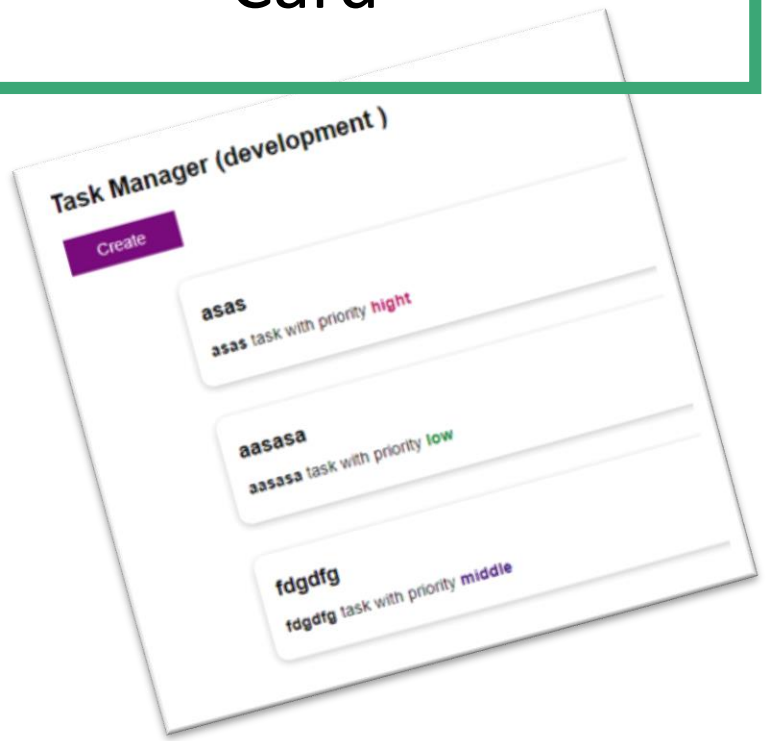
CHILD

Send properties

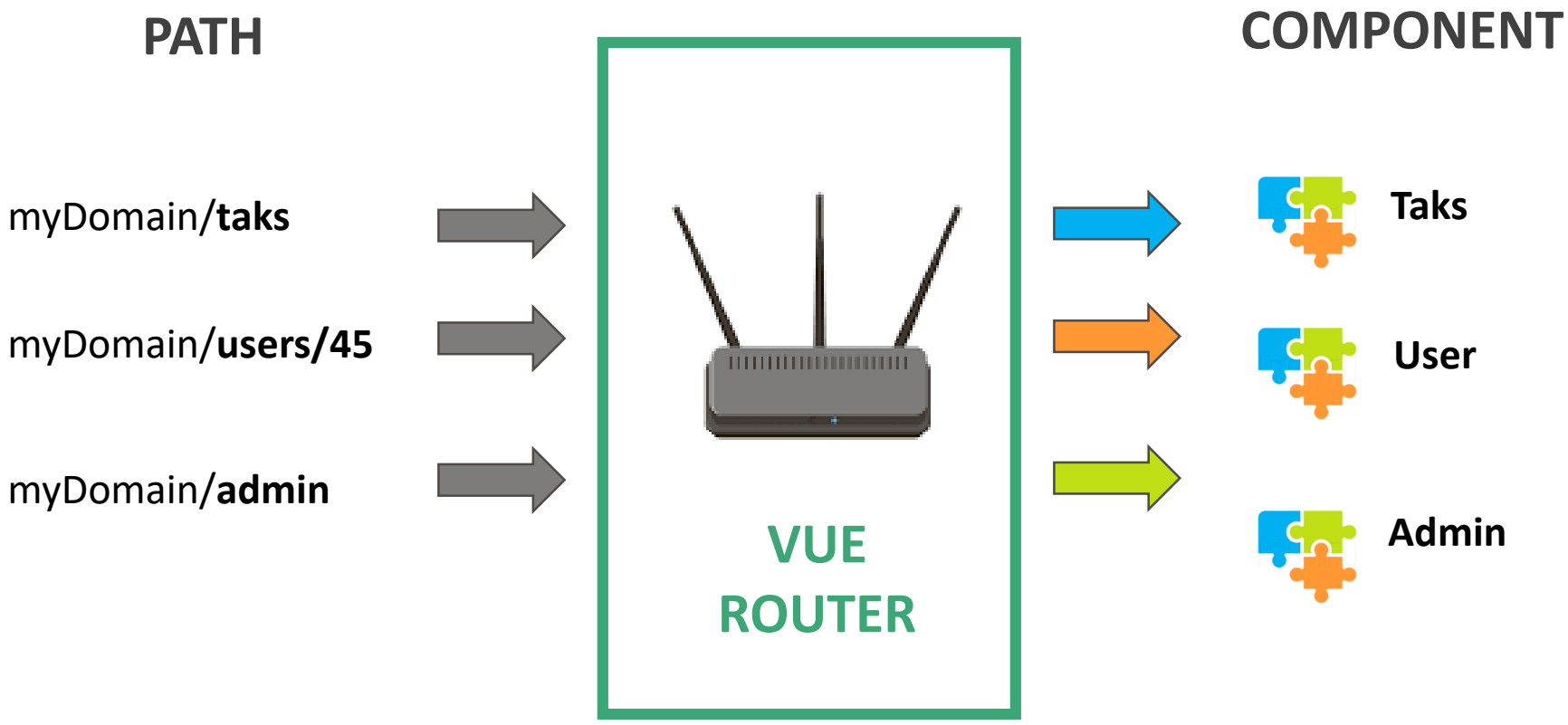
Card

TaskCard

Emit events



COMMUNICATE BETWEEN **PARENT** & **CHILD** COMPONENTS



1 **CORE CONCEPTS**

5 CREATE WIDGETS

VUE

2 VUE CLI

ADVANCED

4 ROUTING

3 VUE COMPONENTS

CORE CONCEPTS

V-IF V-FOR V-BIND : V-ON @ COMPUTER WATCH DATA METHODS DYNAMIC STYLING

DEMO 0

Plain JS projects

VUE JS projects

What are the <u>drawbacks</u> of coding FRONT END using only PLAIN JS ?

VUE 2.0 VS VUE 3.0

3 DIFFERENCES

CREATE APP

```
const app = new Vue({
      el: '#app',
      data: {
        title : "My list of teachers",
      }
})
```

```
const app = Vue.createApp({
  data() {
    return {
       title : "My list of teachers",
};
  },
});

app.mount("#app");
```

VUE 2.0 VS VUE 3.0

3 DIFFERENCES

```
const app = new Vue({
      el: '#app',
      data: {
        title : "My list of teachers",
      }
})
```

MOUNT TO DOM

```
const app = Vue.createApp({
  data() {
    return {
       title : "My list of teachers",
};
  },
});

app.mount("#app");
```

VUE 2.0 VS VUE 3.0

3 DIFFERENCES

PROVIDE THE DATA

```
const app = new Vue({
      el: '#app',
      data: {
        title : "My list of teachers",
      }
})
```

```
const app = Vue.createApp({
  data() {
    return {
        title : "My list of teachers",
};
  },
});

app.mount("#app");
```

DEMO 1

{{ }} MUSTACHE

SCRIPT

Provide Data

```
const app = Vue.createApp({
  data() {
    return {
      objective: "learn Vue 3",
    };
  },
});

app.mount("#app");
```

Mount DOM element to VUE app

TEMPLATE

DOM element to mount

```
<div id="app">
   <p>{{ objective }}</p>
 </div>
```

Mustache

DEMO 2

V-BIND:XX (or just :XX)

SCRIPT

```
const app = Vue.createApp({
  data() {
    return {
      vueLink: "https://v3.vuejs.org/",
    };
  },
});

app.mount("#app");
```

TEMPLATE

```
<div id="app">
 <p>Learn more <a :href="vueLink">Vue</a>.</p>
</div>
```

We bind HREF property
To the data vueLInk

Learn more <a href= “https://v3.vuejs.org/” Vue </a> ,

DEMO 3

V-FOR DIRECTIVE

```
<p v-for="item of items" :key="item.id"> {{item.name}}</p>
```

Iteration variable

Unique key

```
<p>BANANA</p>
<p>MANGO</p>
<p>APPLE</p>
```

DEMO 4

CALL METHODS

SCRIPT

```
methods: {
    getObjective() {
       if (this.batch === “batch2021”
          return “learn vue js”;
        else {
           return “I don’t know”;
        }
    },
  },
```

TEMPLATE

```
<div id="app">
 <p>{{ getObjective() }}</p></div>
```

Call the **method**

Whenever something change on the VUE

DEMO 5

V:ON *(or @)* - DOM EVENT

SCRIPT

```
methods: {
   add() {
     this.counter = this.counter + 1;
   },

 },
```

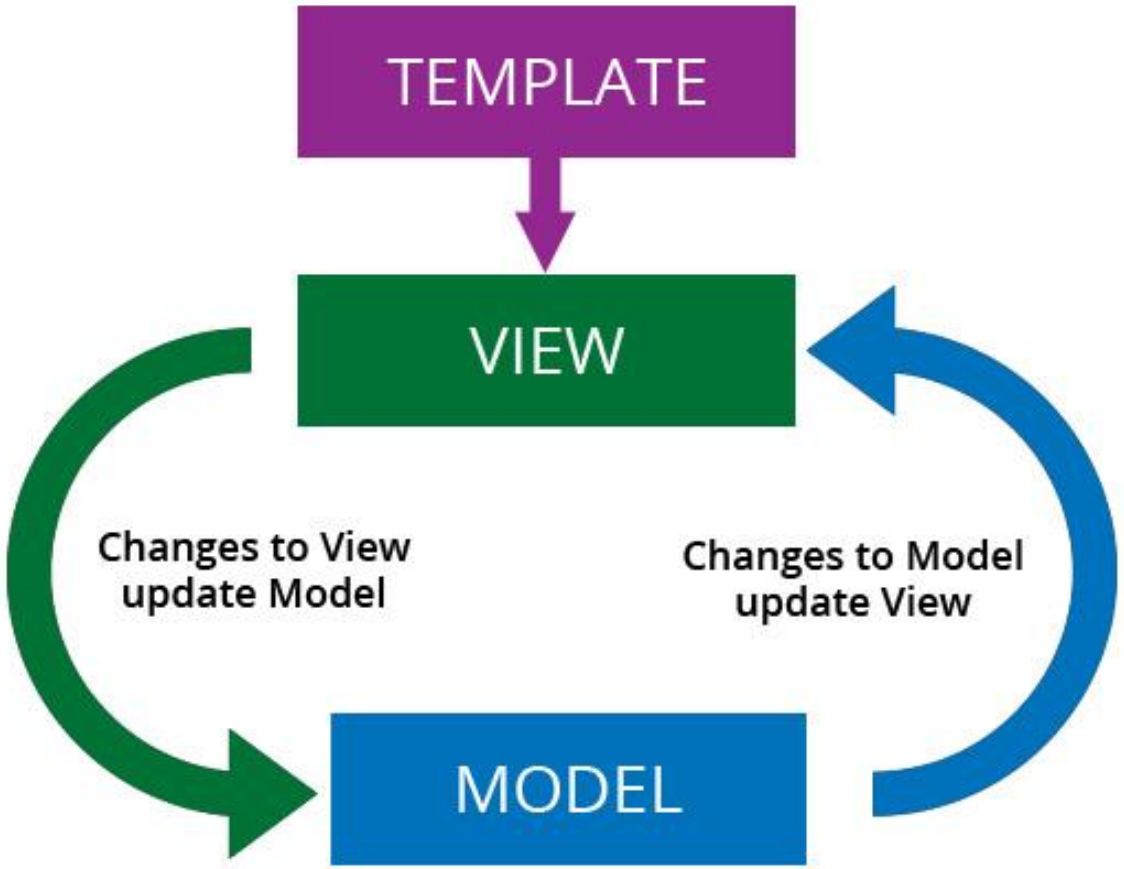
TEMPLATE

```
<div id="app">
  <button @click="add">Add</button>
```

Call the **method**

When the DOM event “click” is raised

What is a 2 way binding?



DEMO 6

2 way binding manually

SCRIPT

```
data() {
    return {
      name: “”;
    };
},
methods: {
    setName(event) {
      this.name = event.target.value;
    },
},
```

This is just JS event properties !

TEMPLATE

```
<input  type="text" @input="setName($event)" />


<p>{{ name }}</>
```

Call the **method**
When text is entered

DEMO 7

2 way binding with v-model

SCRIPT

```
data() {
    return {
      name: “”;
    };
},
```

TEMPLATE

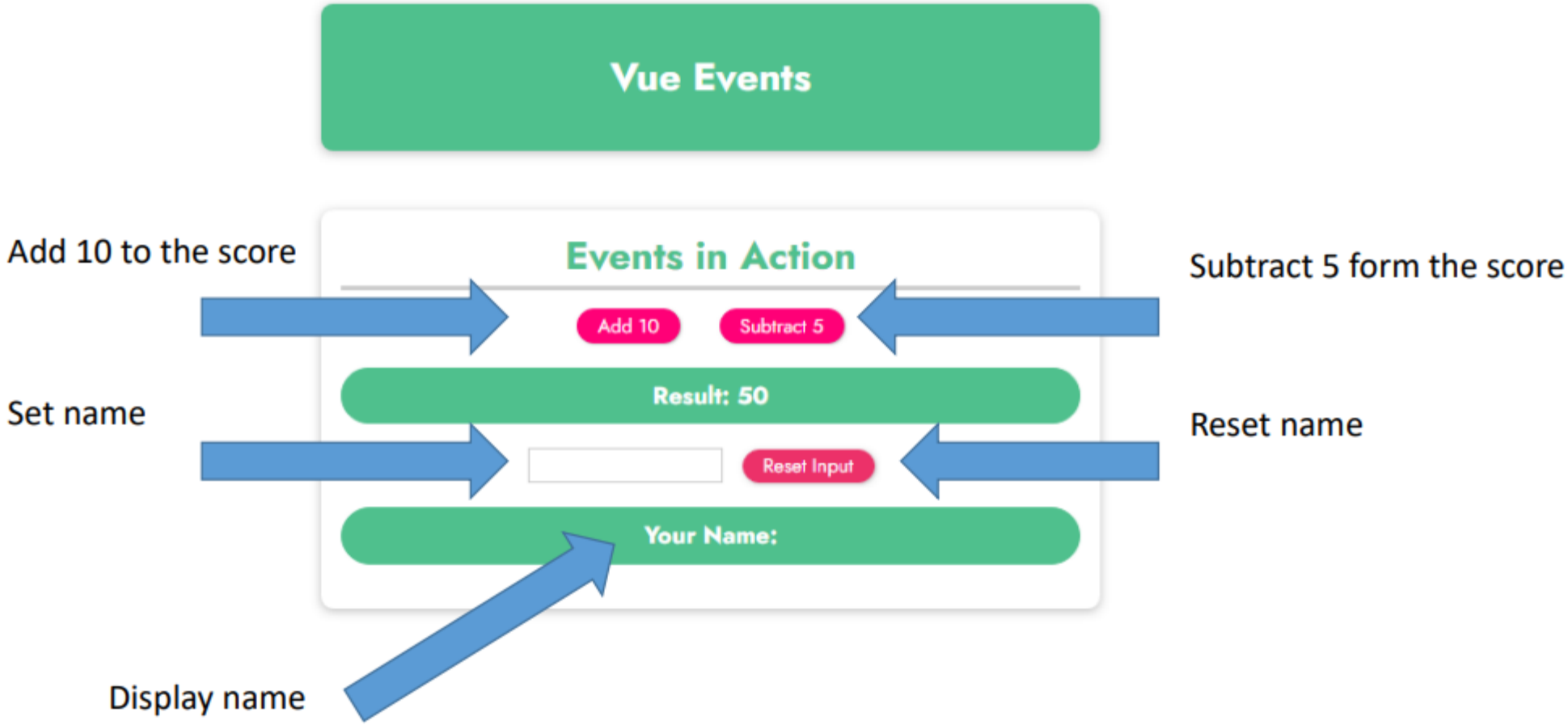
```
<input  type="text"  v-model=“name" />


<p>{{ name }}</>
```

2 way binding

ACTIVITY 8

YOUR TURN !!!



DEMO 9

Computed VS methods !

THE FIGHT

COMPUTED

```
computed: {
    fullname() {
      console.log("Running again...");

      return this.name + " " + “ teacher";
    },
  },
```

How many time
This is called ?

METHOD

```
methods: {
    getFullname() {
      console.log("Running again...");

      return this.name + " " + “ teacher";
    },
  },
```

How many time
This is called ?

DEMO 10

Watch

SCRIPT

```
watch: {
    counter(value) {
      console.log("new value", value);
    },
},
```

- ✓ A watch is just a **LISTENER** on a VALUE
- ~~✓ NO data~~
- ✓ A good way to FETCH to the API

Shorthands !

Method >> Computed >> Watch

Methods

Use with event binding OR data binding

Data binding: Method is executed for every “re-render” cycle of the component

Use for events or data that really needs to be re-evaluated all the time

Method >> Computed >> Watch

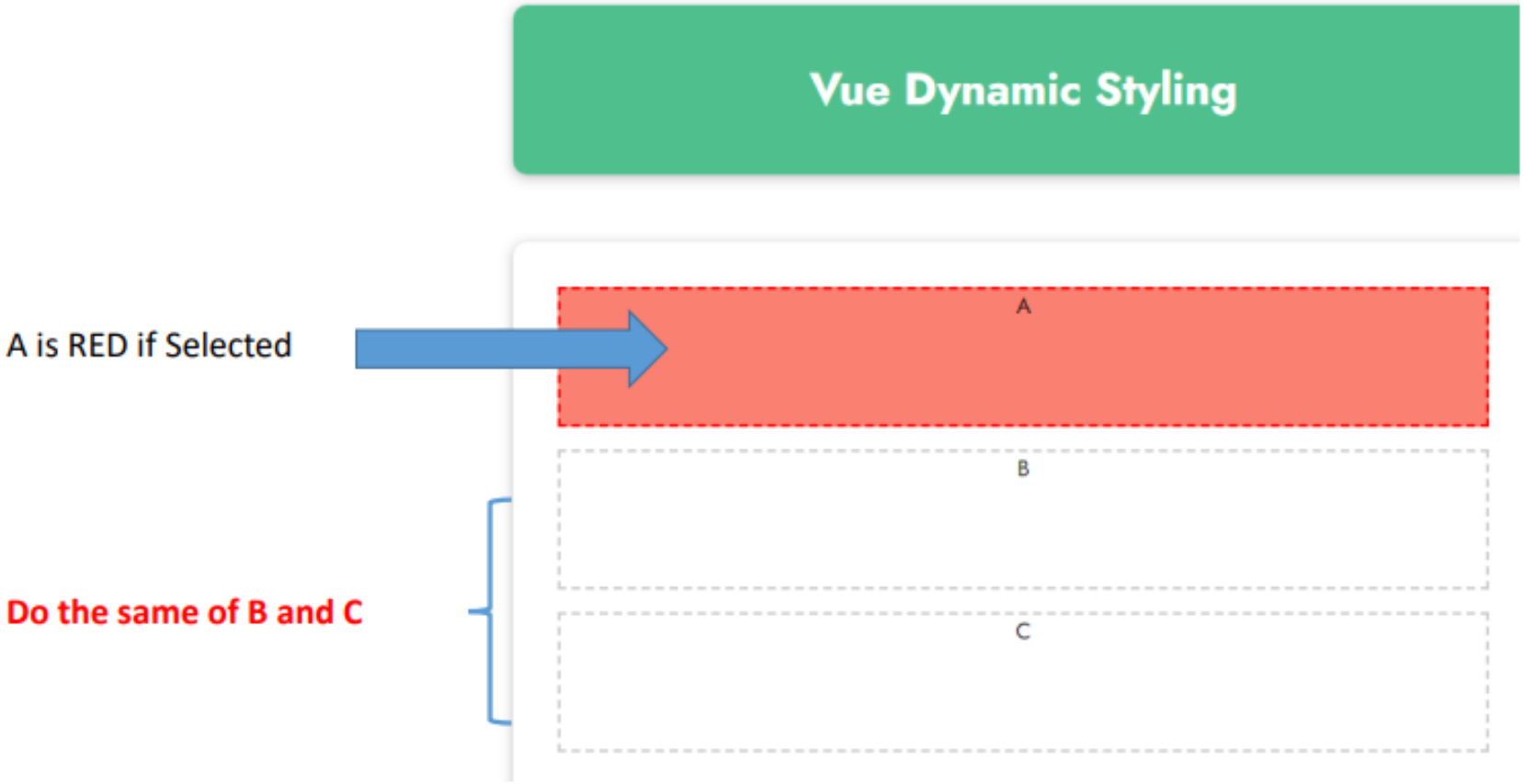
Methods	Computed
Use with event binding OR data binding	Use with data binding
Data binding: Method is executed for every "re-render" cycle of the component	Computed properties are only re-evaluated if one of their "used values" changed
Use for events or data that really needs to be re-evaluated all the time	Use for data that depends on other data

Method >> Computed >> Watch

Methods	Computed	Watch
Use with event binding OR data binding	Use with data binding	Not used directly in template
Data binding: Method is executed for every "re-render" cycle of the component	Computed properties are only re-evaluated if one of their "used values" changed	Allows you to run any code in reaction to some changed data (e.g. send Http request etc.)
Use for events or data that really needs to be re-evaluated all the time	Use for data that depends on other data	Use for any non-data update you want to make

ACTIVITY 11

YOUR TURN !!!



DEMO 12

Fetch back end API

SCRIPT

XXX

TEMPLATE

XXX

BACK

XXX

TO READ DURING THIS CLASS

Maximilian Schwarzmüller. VueJS complete course - UDEMY
https://www.udemy.com/course/vuejs-2-the-complete-guide/learn/lecture/21463426#overview

Vue 3 official document
https://v3.vuejs.org/guide/single-file-component.html#introduction

Vue CLI official document
https://cli.vuejs.org/guide/

A full demo to build a poject (quiz app)
https://www.youtube.com/watch?v=4deVCNJq3qc&ab_channel=freeCodeCamp.org

Code style VueJS3.0
https://v3.vuejs.org/style-guide/