

```
app2 > <> index.html > <html>
1 <!DOCTYPE html>
2 <html lang="">
3
4 <head>
5   <meta charset="UTF-8">
6   <link rel="icon" href="/favicon.ico">
7   <meta name="viewport" content="width=device-width, initial-scale=1.0">
8   <title>Props, Events, &lt;component&gt;, and &lt;slots&gt;</title>
9 </head>
10
11 <body>
12   <style>
13     html, body, #app { height: 100%; margin: 0; padding: 0; }
14   </style>
15   <div id="app"></div>
16   <script type="module" src="/src/main.js"></script>
17 </body>
18
19 </html>
```

```
app2 > src > js main.js > ...
1 import { createApp } from 'vue'
2 import { createPinia } from 'pinia'
3
4 import App from './App.vue'
5 import router from './router'
6
7 const app = createApp(App)
8
9 app.use(createPinia())
10 app.use(router)
11
12 app.mount('#app')
```

```
app2 > src > App.vue > {} style scoped
1 <script setup>
2 import Header from './components/Header.vue';
3 import Main from './components/Main.vue';
4 import Aside from './components/Aside.vue';
5 import Footer from './components/Footer.vue';
6 import { ref } from 'vue'
7
8 let category = ref('Food')
9
10 function switchCategory(newValue) {
11   category.value = newValue
12 }
13 </script>
14
15 <template>
16   <div class="view">
17     <Header text="CSCI-232 Client-side Development" class="round-top"/>
18
19     <div id="content">
20       <Main class="main" :category="category"/>
21       <Aside class="aside" @switch-category="switchCategory"/>
22     </div>
23
24     <Footer>
25       <span>&copy; artfulmonkeys.xyz</span>
26     </Footer>
27   </div>
28 </template>
29
30 <style scoped>
31 .view {
32   margin: 10px;
33   height: 95%;
34
35   display: flex;
36   flex-direction: column;
37 }
38
39 #content {
40   flex: 1;
41   margin-top: 10px;
42
43   display: flex;
44   gap: 10px;
45 }
46
47 .main { flex: 0 0 65%; /* grow:0, shrink:0, basis: 65% */ }
48
49 .aside { flex: 1; /* grow - take up remaining space*/ }
50
51 </style>
```

```
app2 > src > js data.js > ...
1 const data = [
2   {
3     category: "Food",
4     title: "Food article 1",
5     text: " This is the text for the first food article."
6   },
7   {
8     category: "Food",
9     title: "Food article 2",
10    text: " This is the text for the second food article."
11  },
12  {
13    category: "Sports",
14    title: "Sports Article 1",
15    text: " This is the text for the first sports article."
16  },
17  {
18    category: "Sports",
19    title: "Sports Article 2",
20    text: " This is the text for the second sports article."
21  },
22  {
23    category: "Sports",
24    title: "Sports Article 3",
25    text: " This is the text for the third sports article."
26  }
27 ]
28
29 function getCategories() {
30   return [...new Set(data.map(item => item.category))]
31 }
32
33 function getArticles(category) {
34   return data.filter((elm) => elm.category == category)
35 }
36
37 export { getCategories, getArticles }
```

```
app2 > src > components > Header.vue > {} style scoped
1 <script setup>
2   import { defineProps } from 'vue';
3
4   const props = defineProps({
5     tag: {
6       type: String,
7       default: "h1"
8     },
9     text: String
10  })
11 </script>
12
13 <template>
14   <header>
15     <component :is="props.tag">{{ props.text }}</component>
16   </header>
17 </template>
18
19 <style scoped>
20   header {
21     background-color: #rgb(243, 238, 238);
22     padding-inline: 5px;
23     padding-block: 10px;
24   }
25
26   h1,h2,h3,h4,h5,h6 { margin: 0; }
27
28   .round-top { border-radius: 10px 10px 0 0; }
29 </style>
```

```
app2 > src > components > Main.vue > {} style scoped > #content
1 <script setup>
2 import Header from './Header.vue';
3 import Article from './Article.vue';
4 import { getArticles } from '../data.js'
5 import { watch } from 'vue'
6
7 const props = defineProps(['category'])
8
9 let articles = getArticles(props.category)
10
11 watch(
12   () => props.category,
13   (val) => { articles = getArticles(val) }
14 )
15 </script>
16
17 <template>
18   <main>
19     <Header tag="h2" :text="category" class="header" />
20
21     <div id="content">
22       <Article v-for="item in articles" :info="item"/>
23     </div>
24   </main>
25 </template>
26
27 <style scoped>
28 main {
29   background-color: #rgb(234, 239, 239);
30
31   display: flex;
32   flex-direction: column;
33   gap: 10px;
34 }
35
36 header {
37   background-color: #rgb(200, 215, 217);
38   color: #rgb(20, 30, 32);
39 }
40
41 #content {
42   margin: 10px;
43
44   display: flex;
45   flex-direction: column;
46   gap: 10px;
47 }
48 </style>
```

```
app2 > src > components > Aside.vue > {} style scoped
1 <script setup>
2 import Header from './Header.vue';
3 import Button from './Button.vue';
4 import { getCategories } from '../data';
5
6 let emits = defineEmits(['switch-category'])
7
8 const categories = getCategories()
9 </script>
10
11 <template>
12   <aside>
13     <Header tag="h2" text="Categories" class="header" />
14
15     <div id="content">
16       <Button
17         v-for="item in categories"
18         :label="item"
19         @switch-category="$emit('switch-category', $event)"/>
20     </div>
21   </aside>
22 </template>
23
24 <style scoped>
25 aside {
26   background-color: #rgb(241, 240, 236);
27
28   display: flex;
29   flex-direction: column;
30   gap: 10px;
31 }
32
33 header {
34   background-color: #rgb(230, 227, 216);
35   color: #rgb(42, 38, 25);
36 }
37
38 #content {
39   margin-top: 10px;
40
41   display: flex;
42   flex-direction: column;
43   gap: 10px;
44   align-items: center;
45 }
46 </style>
```

```
app2 > src > components > Footer.vue > {} style scoped
1 <script setup>
2
3 </script>
4
5 <template>
6   <footer>
7     <slot/>
8   </footer>
9 </template>
10
11 <style scoped>
12 footer {
13   background-color: #rgb(243, 238, 238);
14
15   margin-top: 10px;
16   padding-inline: 5px;
17   padding-block: 20px;
18   border-radius: 0 0 10px 10px;
19
20   text-align: center;
21 }
22 </style>
```

CSCI-232 Client-side Development Component Basics

Component Basics

Food	Categories
Food article 1 This is the text for the first food article.	Food Sports
Food article 2 This is the text for the second food article.	
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```
app2 > src > components > Article.vue > {} style scoped
1 <script setup>
2   const props = defineProps({
3     info: Object
4   })
5 </script>
6
7 <template>
8   <article>
9     <h3>{{ info.title }}</h3>
10    <p>{{ info.text }}</p>
11  </article>
12 </template>
13
14 <style scoped>
15   article {
16     background-color: #rgb(172, 196, 198);
17     padding: 10px;
18     border-radius: 10px;
19   }
20
21   h3 { margin: 0; }
22 </style>
```

```
app2 > src > components > Button.vue > {} style scoped
1 <script setup>
2   let props = defineProps(['label'])
3
4   let emits = defineEmits(['switch-category'])
5 </script>
6
7 <template>
8   <button @click="$emit('switch-category', label)">
9     <h3>{{ label }}</h3>
10  </button>
11 </template>
12
13 <style scoped>
14   button {
15     all: unset;
16     display: block;
17
18     background-color: #rgb(206, 201, 182);
19     width: 100px;
20     padding: 10px 40px;
21     border-radius: 5px;
22
23     text-align: center;
24   }
25
26   h3 { margin: 0; }
27 </style>
```