

CP 323 Lab Activity: Vue Component Registration

Objective

By the end of this lab, students will:

- Create Vue components using `export default`
 - Import components in a main app file
 - Register components globally and locally using ES module syntax
-

Project Structure

Create the following structure in your project folder:

```
vue-module-lab/  
├─ index.html  
├─ main.js  
├─ components/  
|   ├─ GlobalButton.js  
|   └─ LocalButton.js
```

1. `index.html`

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
  <meta charset="UTF-8">  
  <title>Vue Modules Lab</title>  
</head>
```

```
<body>
  <div id="app"></div>

  <script type="module" src="./main.js"></script>
</body>
</html>
```

2. components/GlobalButton.js

```
export default {
  name: 'GlobalButton',
  template: `<button style="margin: 10px;">Click Me (Global
Component)</button>`
};
```

3. components/LocalButton.js

```
export default {
  name: 'LocalButton',
  props: ['label'],
  template: `<button>{{ label }}</button>`
};
```

4. main.js

```
import { createApp } from
'https://unpkg.com/vue@3/dist/vue.esm-browser.js';
import GlobalButton from './components/GlobalButton.js';
import LocalButton from './components/LocalButton.js';

const app = createApp({
  components: {
    'local-wrapper': {
      components: {
```

```

        LocalButton // local registration
      },
      template: `
        <div>
          <h2>Inside Local Wrapper</h2>
          <local-button label="I'm Local"></local-button>
        </div>
      `,
    },
  ],
  template: `
    <div>
      <h1>Vue Components with Modules</h1>
      <global-button></global-button>
      <local-wrapper></local-wrapper>
    </div>
  `,
});

// ✅ Global registration
app.component('global-button', GlobalButton);

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

Tasks for Students

1. Add a **second global component** (e.g. `GlobalMessage.js`) and register it in `main.js`.
2. Add **styles** to the local and global buttons.
3. Modify `LocalButton` to include a **click counter** using `data()` and `@click`.