Vue.js List Rendering

Topics : Vue
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List rendering in Vue.js involves rendering a list of items dynamically based on an array or an object. Vue.js provides several directives to handle list rendering. Here are some common techniques for list rendering in Vue.js:

1. **`v-for` Directive:** The `v-for` directive is used to iterate over an array and render elements for each item in the array.

   ```
   <template>
   <ul>
   <li v-for="item in items" :key="item.id">{{ item.name }}</li>
   </ul>
   </template>

   <script>
   export default {
   data() {
   return {
   items: [
   { id: 1, name: 'Item 1' },
   { id: 2, name: 'Item 2' },
   { id: 3, name: 'Item 3' }
   ]
   };
   }
   };
   </script>
   ```

   The `:key` attribute is essential when using `v-for` to help Vue.js efficiently update the DOM.

2. **`v-for` with Index:** You can also access the index of the current iteration using `v-for`.

   ```
   <template>
   <ul>
   <li v-for="(item, index) in items" :key="index">{{ index + 1 }}. {{ item.name }}</li>
   </ul>
   </template>

   <script>
   ```

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```
export default {
data() {
return {
items: [
{ name: 'Item 1' },
{ name: 'Item 2' },
{ name: 'Item 3' }
]
};
}
};
</script>
```

3. **Rendering an Object with `v-for`:** You can use `v-for` to iterate over the properties of an object.

```
<template>
<ul>
<li v-for="(value, key) in user" :key="key">{{ key }}: {{ value }}</li>
</ul>
</template>

<script>
export default {
data() {
return {
user: {
name: 'John Doe',
age: 25,
email: 'john@example.com'
}
};
}
};
</script>
```

4. **`v-for` with `v-if`:** You can combine `v-for` with `v-if` to conditionally render items.

```
<template>
<ul>
<li v-for="item in items" :key="item.id" v-if="item.status === 'active'">
{{ item.name }}
</li>
</ul>
</template>

<script>
export default {
data() {
return {
```

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```
items: [
{ id: 1, name: 'Item 1', status: 'active' },
{ id: 2, name: 'Item 2', status: 'inactive' },
{ id: 3, name: 'Item 3', status: 'active' }
]
};
}
};
</script>
```

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