Vue.js Introduction

Topics : Vue
Written on January 10, 2024

Vue.js is a progressive JavaScript framework used for building user interfaces. Vue.js is designed to be incrementally adoptable, making it easy to integrate into existing projects. It focuses on the view layer and provides a flexible and efficient way to create interactive web applications.

Key Concepts:

Vue Instance:

- At the core of Vue.js is the Vue instance. You create a Vue instance by instantiating Vue and passing an options object that defines the data, methods, lifecycle hooks, and more.

```
<div id="app">
  {{ message }}
</div>

<script src="https://cdn.jsdelivr.net/npm/vue@2"></script>
<script>
  new Vue({
    el: '#app',
    data: {
      message: 'Hello, Vue!'
    }
  });
</script>
```

Data Binding:

- Vue provides two-way data binding between the model and the view. Use `v-bind` to bind an attribute or `v-model` for form input bindings.

```
<div id="app">
  <p>{{ message }}</p>
  <input v-model="message">
</div>
```

Directives:

- Directives are special tokens in the markup that tell the library to do something to a DOM

ARYATECHNO

element. For example, `v-for` for rendering lists and `v-if` for conditional rendering.

```
<ul>
  <li v-for="item in items">{{ item }}</li>
</ul>
```

Methods:

- You can define methods in the Vue instance to handle events or perform specific actions.

```
<div id="app">
  <button v-on:click="sayHello">Say Hello</button>
</div>

<script>
  new Vue({
    el: '#app',
    methods: {
      sayHello: function () {
        alert('Hello!');
      }
    }
  });
</script>
```

Components:

- Vue allows you to create reusable components with their own template, script, and style.

```
<div id="app">
  <my-component></my-component>
</div>

<script>
  Vue.component('my-component', {
    template: '<p>This is a custom component!</p>'
  });

  new Vue({
    el: '#app'
  });
</script>
```

Lifecycle Hooks:

- Vue provides several lifecycle hooks (e.g., `created`, `mounted`, `updated`, `destroyed`) that allow you to execute code at different stages of a component's lifecycle.

ARYATECHNO

© Copyright **Aryatechno**. All Rights Reserved. Written tutorials and materials by Aryatechno

ARYATECHNO