Vue.js Routing

By Mulia Nasution (mul14@refactory.id)

What is Routing

Initialize VueRouter

Initialize

```
import VueRouter form 'vue-router'

const router = new VueRouter({
  //
})

const app = new Vue({
  router
}).$mount('#app')
```

Initialize

```
import routes form '@/routes'

const router = new VueRouter({
  routes: routes
})
```

<router-view />

Define Routers

Define Routes

```
const routes = [
  {
    path: '/somewhere',

  }
]
```

Define Routes

```
import Somewhere from './views/Somewhere.vue'

const routes = [
  {
    path: '/somewhere',
    component: Somewhere,
  }
]
```

Define Routes

```
import Somewhere from './views/Somewhere.vue'
import Other from './views/Other.vue'

const routes = [
  {
    path: '/somewhere',
    component: Somewhere,
  },
  {
    path: '/other',
    component: Other,
  },
]
```

Code Splitting & Async Component

Define Routes

```
const routes = [
  {
    path: '/somewhere',
    component: () => import('./views/Somewhere.vue'),
  },
  {
    path: '/other',
    component: () => import('./views/Other.vue'),
  },
]
```

Pros/Cons of **Code Splitting** & **Async Component**

Pros:

- Small file size
- Load only when needed

Cons

- Need internet connection each time when first time load a component.

Example of **./src/routes/index.js** file

```
const routes = [
  {
    name: 'user.create',
    path: '/users/create',
    component: () => import('./views/users/Form.vue'),
  },
]

export default routes
```

<router-link />

<router-link />

```
<router-link> Button </router-link>

<a> Button </a>


<router-link class="btn" id="btn"> Button </router-link>

<a class="btn" id="btn"> Button </a>
```

<router-link />

```
<router-link to="/users/create">New User</router-link>


<router-link to="https://refactory.id">
  Open Refactory's website
</router-link>
```

<router-link />

```
<router-link :to="{ path: '/users/create' }">
  New User
</router-link>
```

Example of **./src/routes/index.js** file

```
const routes = [
  {
    name: 'user.create',
    path: '/users/create',
    component: () => import('./views/users/Form.vue'),
  },
]

export default routes
```

<router-link />

```
<router-link :to="{ name: 'user.create' }">
  Go To a path
</router-link>
```

Example of **./src/routes/index.js** file

```
const routes = [
  {
    name: 'user.detail',
    path: '/users/:id',
    component: () => import('./views/users/Show.vue'),
  },
]

export default routes
```

<router-link />

```
<div v-for="user in users" :key="user.id">
  <router-link :to="`/users/${user.id}`">
    Go To a path
  </router-link>
</div>
```

<router-link />

```
<div v-for="user in users" :key="user.id">
  <router-link
    :to="{ name: 'user.detail', params: { id: user.id} }"
  >
    Go To a path
  </router-link>
</div>
```

Programatic Navigation

Inside <template>

```
<template>
  <button @click="open">
    Open About Page
  </button>
</template>
```

Inside <script>

```
methods: {
  open() {
    this.$router.push('/page/about')
  }
}
```

Inside <template>

```
<template>
  <button @click="detail(id)">
    Product Detail
  </button>
</template>
```

Inside <script>

```
methods: {
  detail(id) {
    this.$router.push(`/products/${id}`)
  }
}
```

404 Not Found

404 Not Found

```
import ErrorPage from './views/Error/404.vue'

const routes = [
  {
    path: '*',
    component: ErrorPage,
  }
]
```

Nested Routes

admin/post

```
[
  {
    path: '/admin',
    component: () => import('./views/AdminLayout.vue'),
    children: [
      {
        path: '/post',
        component: () => import('./views/Admin/Post.vue'),
      }
    ]
  },
]
```

Private Routes / Authentication

meta

```
[
  {
    name: 'admin',
    path: '/admin',
    component: () => import('./views/Admin.vue'),
    meta: {
      requiresAuth: true
    }
  },
]
```

Private Routes

https://router.vuejs.org/guide/advanced/meta.html

https://router.vuejs.org

Q & A

Thanks