

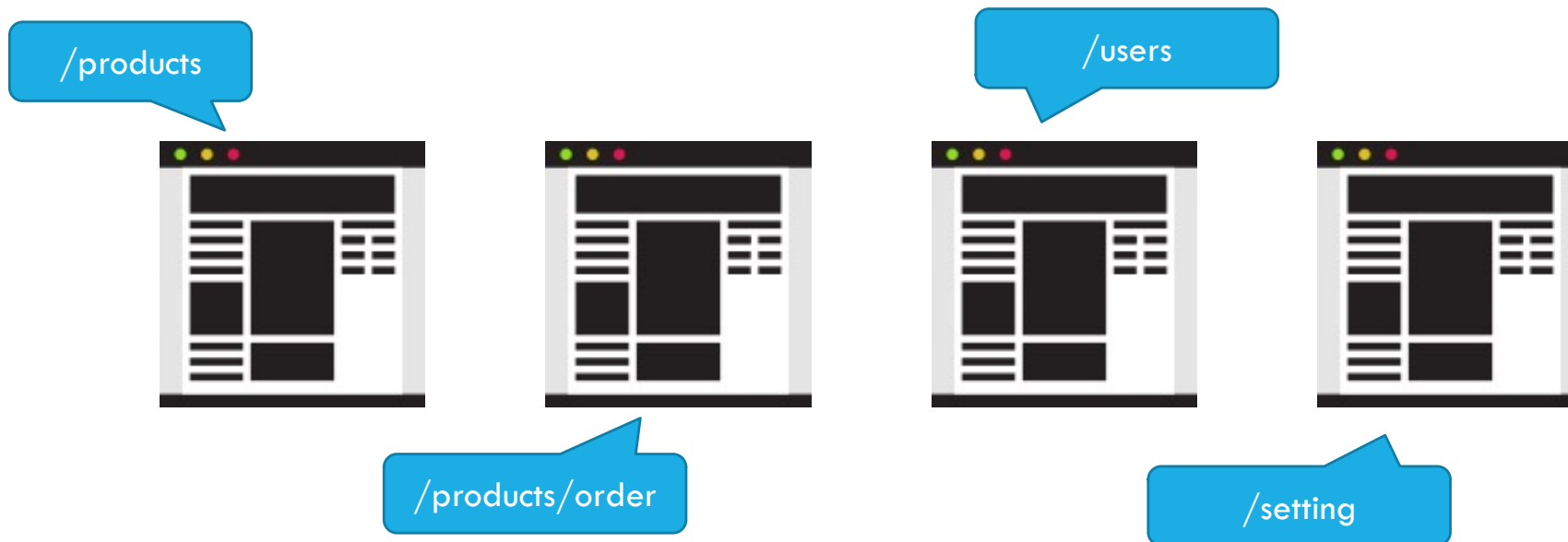


# VUE ROUTER

The dynamic client routing

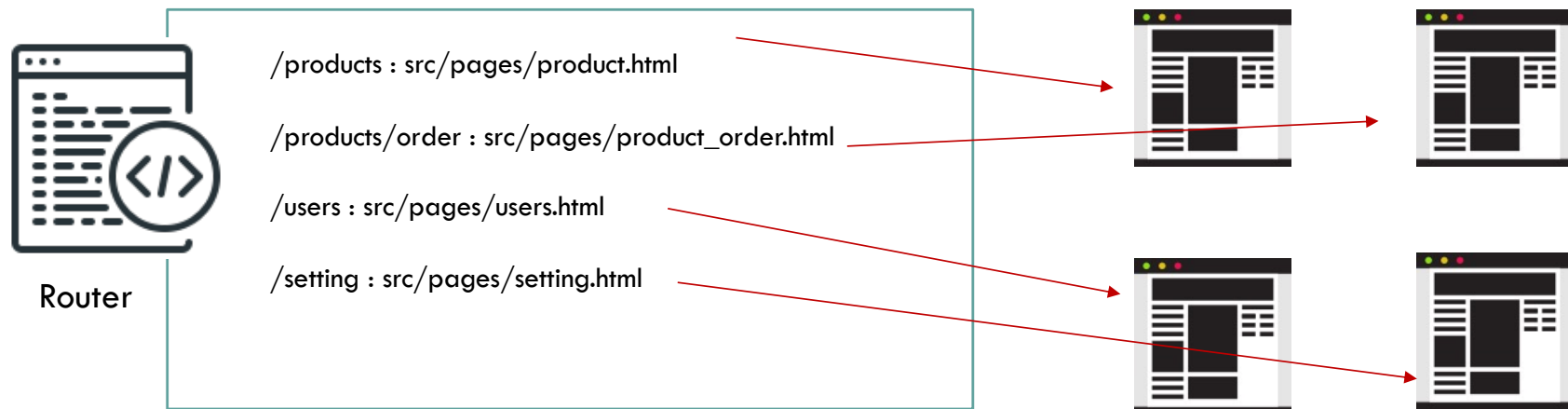
# WHY VUE ROUTER?

When you are building a **SPA**, it is unavoidable that you gotta have multiple pages which are render on the client side.



# WHY VUE ROUTER?

So how can you organize your application url and map them with your page document?



# SETUP VUE ROUTER

## 1 Install vue router module

If you are using VueJs 3

```
$ npm i vue-router@next
```

Or **vue-router** module otherwise

# SETUP VUE ROUTER

## 2 Add routing directory and configuration file

There are a few important items to take note:

- ❖ Path : url path where this route can be found
- ❖ Name: optional name to use when we link to this route
- ❖ Component: component to load when route is called

```
import { createWebHistory, createRouter } from "vue-router";
import Home from "@views/Home.vue";
import About from "@views/About.vue";

const routes = [
  {
    path: "/",
    name: "Home",
    component: Home,
  },
  {
    path: "/about",
    name: "About",
    component: About,
  },
];

const router = createRouter({
  history: createWebHistory(),
  routes,
});

export default router;
```

# SETUP VUE ROUTER

## 3 Import and use Vue Router

Update main.js file to use our router in our application.

```
import { createApp } from 'vue'
import App from './App.vue'
import router from './router' // <---

createApp(App).use(router).mount('#app')
```

Apply the imported router to the vue instance with function **use()**

# SETUP VUE ROUTER

## 4 Use `<router-view>` and `<router-link>`

There are 2 directives related to Vue router:

**`<router-view />`** - When a route is navigated to in the browser, this is where the component is rendered. For example, in our code going to `/` will render the Home component where we list `<router-view />`.

**`<router-link>`** - This is the directive we use to create links between our different component pages, instead of using `<a href>`.

```
<template>
  <div id="nav">
    <router-link to="/">Home</router-link> |
    <router-link to="/about">About</router-link>
  </div>
  <router-view />
</template>
```

**/src/App.vue**

```
<template>
  <h1>About Page</h1>
</template>
```

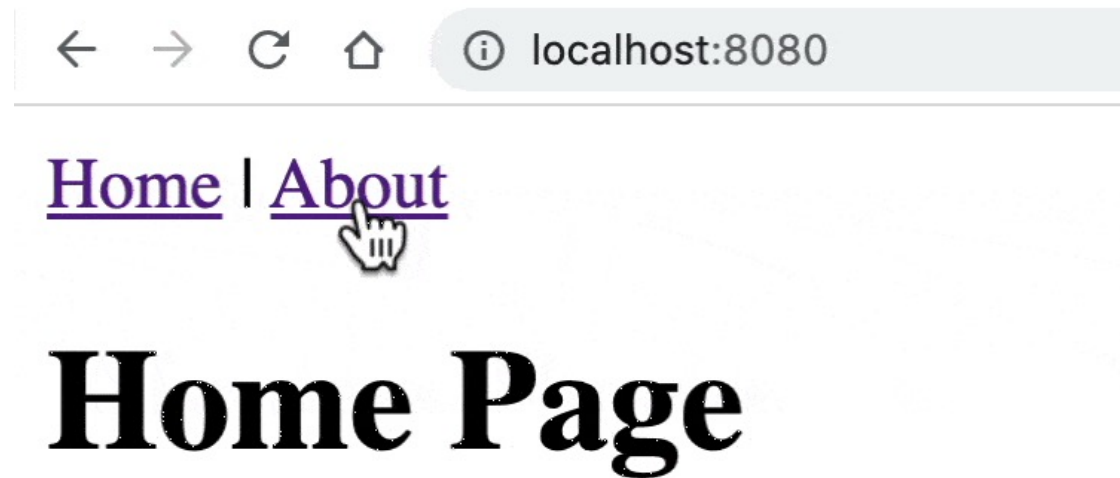
**/src/views/About.vue**

```
<template>
  <h1>Home Page</h1>
</template>
```

**/src/views/Home.vue**

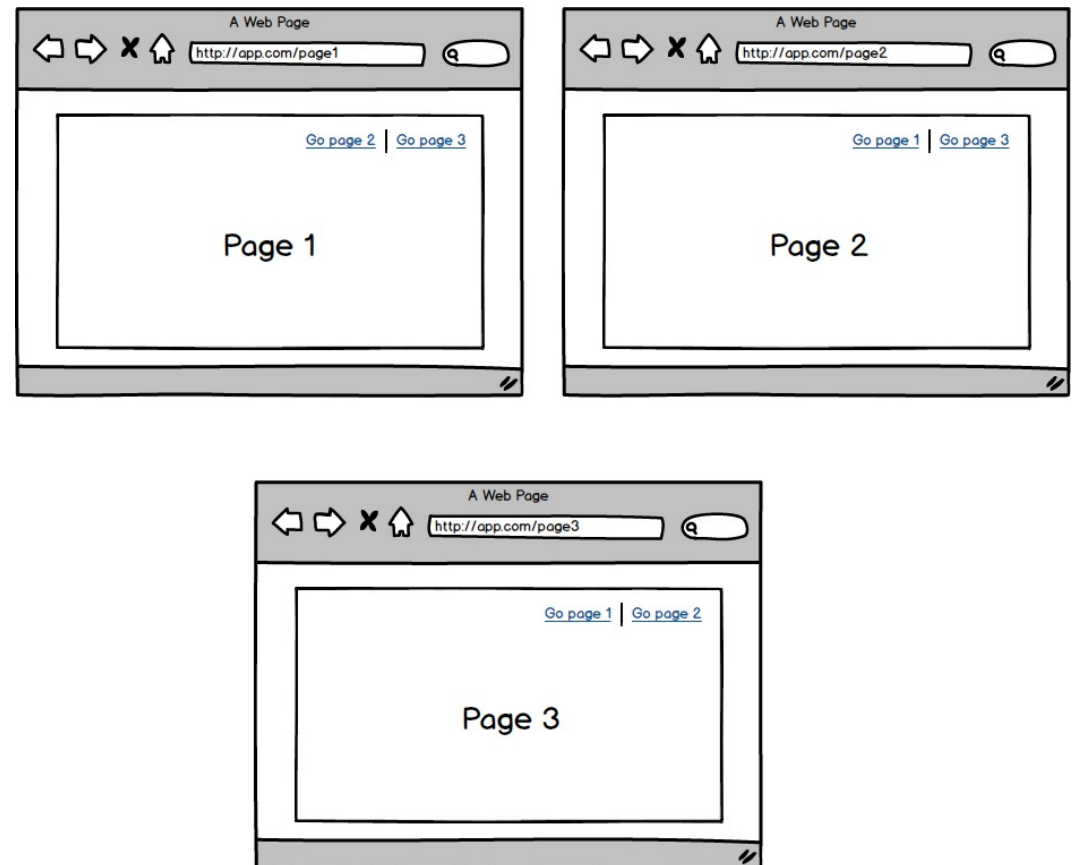


You will get something like this:



# EXERCISE 1

Create something like this:



## ● Named route

```
<router-link :to="{ name: 'Home' }">Home</router-link> |  
<router-link :to="{ name: 'About' }">About</router-link>
```

You can use route name instead of path

## ● Dynamic segments

You may pass param through the url

```
{  
  path: "/user/:name", // <-- notice the colon  
  name: "User",  
  component: User,  
},
```

The parameter can be accessed this way:

```
<template>
  <h1>The user is {{ $route.params.name }}</h1>
</template>
```

Or this way:

```
<template>
  <h1>The user is {{ name }}</h1>
</template>
<script>
export default {
  props: ["name"],
};
</script>
```

## Handling 404 Not Found

```
{  
  path: "/*",  
  component: NotFound,  
},
```

`/src/views/NotFound.vue`

```
<template>  
  <h1>Oops, it looks like the page you're looking for  
  doesn't exist.</h1>  
</template>
```

## Nested routes

/user/johnny/profile

```
+-----+
| User   |
| +-----+ |
| | Profile | |
| |       | |
| +-----+ |
+-----+
```

+----->

/user/johnny/posts

```
+-----+
| User   |
| +-----+ |
| | Posts | |
| |       | |
| +-----+ |
+-----+
```

js

```
const routes = [
  {
    path: '/user/:id',
    component: User,
    children: [
      {
        // UserProfile will be rendered inside User's <router-view>
        // when /user/:id/profile is matched
        path: 'profile',
        component: UserProfile,
      },
      {
        // UserPosts will be rendered inside User's <router-view>
        // when /user/:id/posts is matched
        path: 'posts',
        component: UserPosts,
      },
    ],
  },
]
```

# EXERCISE 2

Create something like this:

