

Web Design
& Development

Refactor



Feb-28

Planning

1. Handle routes to manage state
2. Modules in JS

**Handle routes to
manage state**

**Dit is net server side
programmeren.**

Sophie van der Burg

Routing

#hash router

The hash-part of an url points to a specific resource in the web page.
An element with a corresponding value for the id attribute.

fdnd



Frontend Design & Development

Frontender worden?

Inhoud van de opleiding

Tweejarige hbo-opleiding

Je leert door te doen

Je bouwt netwerk op

Mogelijke beroepen

Toelatingseisen

Back to top

<https://fdnd.nl/#frontender-worden>

```
<a href="#frontender-worden">Frontender v
```

Routing

#hash router

The hash-part of an url points to a specific resource in the web page. An element with a corresponding value for the id attribute.

Frontender worden?

Heb jij een passie voor code, problemen oplossen en zet jij je graag in voor de eindgebruiker van een site of app? Wil jij leren hoe je interactieve toepassingen voor het web maakt? En ben je op zoek naar een praktijkgerichte hbo-opleiding, maar wil je niet vier jaar lang studeren? Dan is de nieuwe tweejarige Associate degree Frontend Design & Development (FDND) vast iets voor jou.

Schrijf je direct in via [studielink](#)

```
<section id="frontender-worden">
  <h2>Frontender worden?</h2>
  <p>Heb jij een passie voor code, problemen oplossen
  | wil je niet vier jaar lang studeren? Dan is de nie
  <p><a href="https://www.studielink.nl/?brinCode=28DM
  <p>Heb je een vraag? Neem dan contact op via <a href=
</section>
```

#hash router

The hash-part of an url isn't send to the server. It is interpreted by the browser and accessible through JavaScript...

```
window.addEventListener('hashchange', function() {  
    console.log('The hash has changed!')  
}, false);
```


#hash router

... and can be used to navigate the different routes (aka states) of your SPA.

```
switch (hash) {  
  case "#home":  
    routerView.innerHTML = "<h1>Home page</h1>";  
    break;  
  
  case "#about":  
    routerView.innerHTML = "<h1>About page</h1>";  
    break;  
  
  default:  
    routerView.innerHTML = "<h1>404 - Page Not Found</h1>";  
    break;  
}
```


#hash router

... this can be a bit complex, so you might want to use a micro library

```
route(  
  {  
    'gifs': () => {  
      loader('active')  
      getData().then(data => {  
        render(data)  
        updateUI('gifs')  
      });  
    },  
    'gifs/:id': id => {  
      loader('active')  
      getData(id).then(data => {  
        render(data, id)  
        updateUI('giphy')  
      });  
    },  
    'about': () => {  
      updateUI('about')  
    }  
  }  
)
```

History API

The History API exposes useful methods and properties that let you navigate back and forth through the user's history, and manipulate the contents of the history stack (MDN)

Planning

- ~~1. Handle routes to manage state~~
2. Modules in JS

Modules in JS

**Het lijkt wel of we
zelf een framework
maken.**

Lotte Koblenz

~~ES Modules~~

HTML

```
<script src="static/js/app.js"></script>  
</body>  
</html>
```

~~ES Modules~~

JavaScript

No structure,
code in
one function

All code in
one file

```
// get data from api and render HTML
```

```
fetch(url)
  .then(response => response.json())
  .then(data => {
    data.forEach((item, i) => {
      const html = `
        <article>
          <h2>${item.title}</h2>
          <a href="#giphy/547839088">
            <img src="https://media.giphy.com/media/$-
          </a>
        </article>
      `
      main.insertAdjacentHTML('beforeend', html)
    })
  })
  .catch(err => console.log(err))
```


ES Modules

Split code into separate files and import them when needed

only main script in HTML

export / import bindings

execute in strict mode

defer by default

scoped by default

~~ES Modules~~

JavaScript

Some structure,
each function
does one thing
and has a logical
name

all code in
one file

```
// get data from api
function getData(url) {
  return fetch(url)
    .then(response => response.json())
    .then(data => {
      render(data.data)
    })
    .catch(err => console.log(err))
}

// render HTML with retrieved data
function renderHTML(data) {
  data.forEach((item, i) => {
    const html = `
      <article>
        <h2>${item.title}</h2>
        <a href="#giphy/547839088">
          
        </a>
      </article>
    `
    main.insertAdjacentHTML('beforeend', html)
  })
}
```

HTML

```
<head>  
  <meta charset="utf-8">  
  <title>Giphy</title>  
  
  <link rel="stylesheet" href="static/css/style.css">  
  
  <script type="module" src="static/js/app.js"></script>  
</head>
```

JavaScript

Code is placed
in separate files,
and stuff can be
exported...

```
export function getData(id) {  
  const endpoint = 'https://api.giphy.com/v1/gifs/'  
  const query = 'search?q='  
  const topic = 'kitten'  
  const key = 'jhcL7QPGb20br0Hw1dEJuL9w2j71zfEk'  
  const limit = 25  
  let url = ''  
  
  if (id) {  
    url = `${endpoint}${id}?api_key=${key}`  
  } else {  
    url = `${endpoint}${query}${topic}&api_key=${key}&limit=${limit}`  
  }  
  
  return fetch(url)  
    .then(response => response.json())  
    .then(data => clean(data.data))  
    .then(data => store(data))  
    .catch(err => {  
      console.log(err)  
    })  
}
```

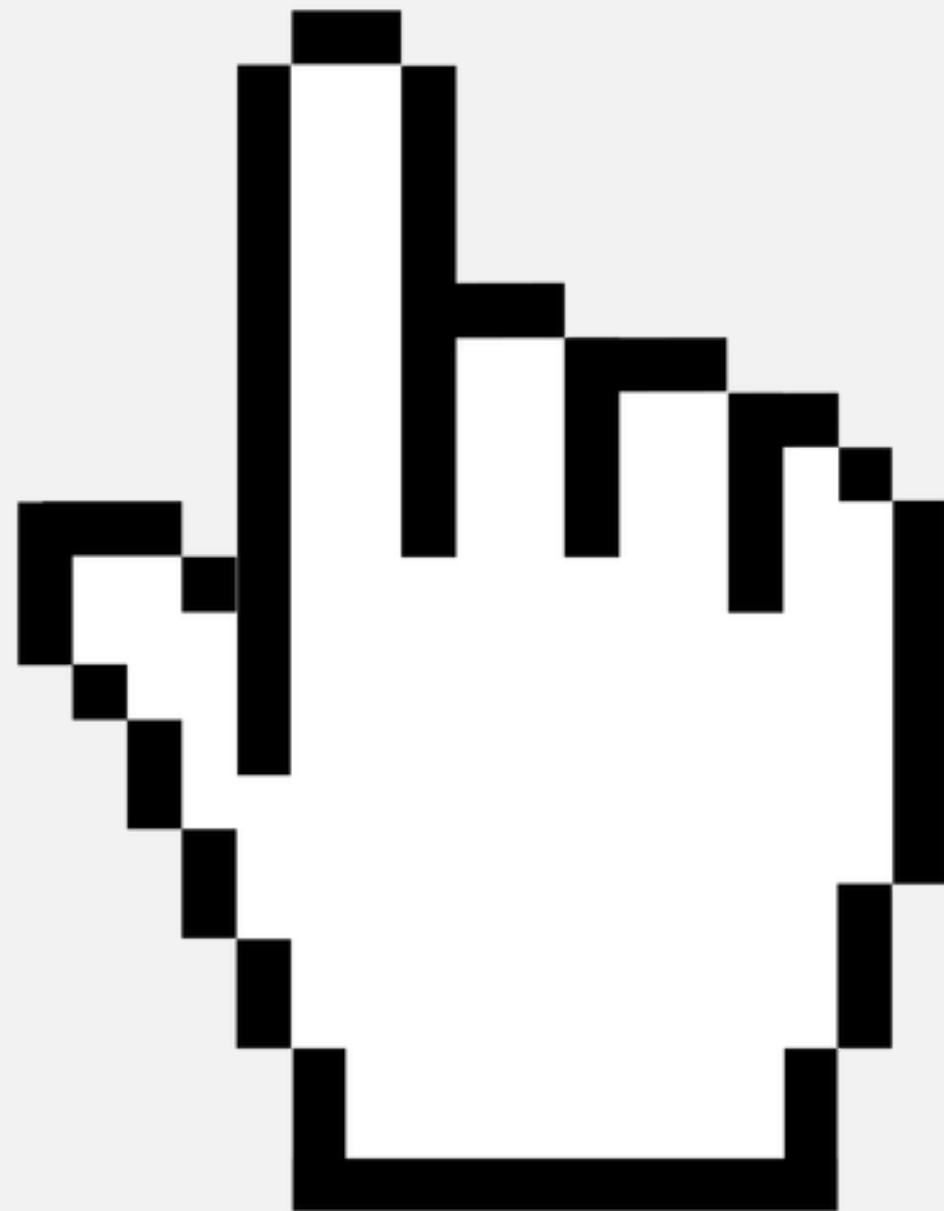
JavaScript

... and imported
where needed

```
import { getData } from './api.js'  
import { render } from './render.js'  
import { loader } from './loader.js'  
import { updateUI } from './ui.js'
```

Planning

- ~~1. Handle routes to manage state~~
- ~~2. Modules in JS~~



Klik klik klik