

Introducción

¿Qué es React.js?

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@sparragus

React – Una biblioteca de JavaScript

Documentación Tutorial Blog Comunidad Buscar v16.8.3 Languages GitHub

React

Una biblioteca de JavaScript para construir interfaces de usuario

Comienza Haz el tutorial >

Declarativo

React te ayuda a crear interfaces de usuario interactivas de forma sencilla. Diseña vistas simples para cada estado en tu aplicación, y React se encargará de actualizar y renderizar de manera eficiente los componentes correctos cuando los datos cambien.

Basado en componentes

Crea componentes encapsulados que manejen su propio estado, y conviértelos en interfaces de usuario complejas.

Ya que la lógica de los componentes está escrita en JavaScript y no en plantillas, puedes pasar datos de forma sencilla a través de tu aplicación y

Aprende una vez, escríbelo donde sea

En React no dejamos fuera al resto de tus herramientas tecnológicas, así que podrás desarrollar nuevas características sin necesidad de volver a escribir el código existente.

React puede también renderizar desde el

Biblioteca (Librería)



Framework

Biblioteca (Librería)



Framework

React es declarativo



```
// index.js
<Layout>
  <Header />
  <Blogpost post={data} />
  <Footer />
</Layout>
```

// index.js

```
<Layout>  ¿Qué hace este
          "HTML" en mi
          JavaScript?
```

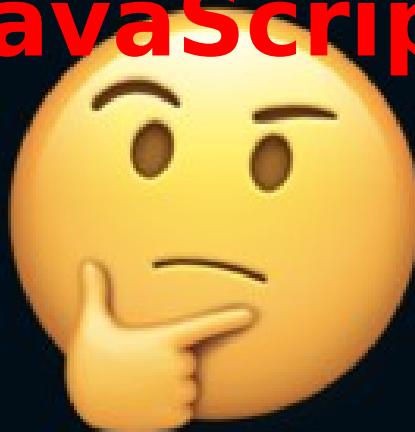
<Header />

<Blogpost />

<Footer />

</Layout>

ata} />





```
// index.js
<Layout>
  <Header />
  <Blogpost post={data} />
  <Footer />
</Layout>
```

COMPONENTES

```
<Layout>
  <Header />
  <Blogpost post={data} />
  <Footer />
</Layout>
```

React App X Kickass

localhost:3000

Email Notebook Kickass Partners Kate and Friends Rivur Sidetime Piggybackr AhhLife NomadX localhost:3000 localhost:5000 DnD Discord

Busca Emojis 😐

Search...

100	100	Copy
12 34	1234	Copy
😊	Grinning	Copy
😁	Grimacing	Copy
😂	Grin	Copy
🤣	Joy	Copy
😃	Smiley	Copy
^K	Smile	Copy
😅	Sweat Smile	Copy
😆	Laughing	Copy

React App X Kickass

localhost:3000

Email Notebook Kickass Partners Kate and Friends Rivur Sidetime Piggybackr AhhLife NomadX localhost:3000 localhost:5000 DnD Discord

Layout

Busca Emojis 😐

Searchbar

Search...

EmojiList

Emoticon	Description	Action
💯	100	Copy
🔢	1234	Copy
😊	Grinning	Copy
😁	Grimacing	Copy
😁	Grin	Copy
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😃	Smiley	Copy
^^	Smile	Copy
😅	Sweat Smile	Copy
🤣	Laughing	Copy

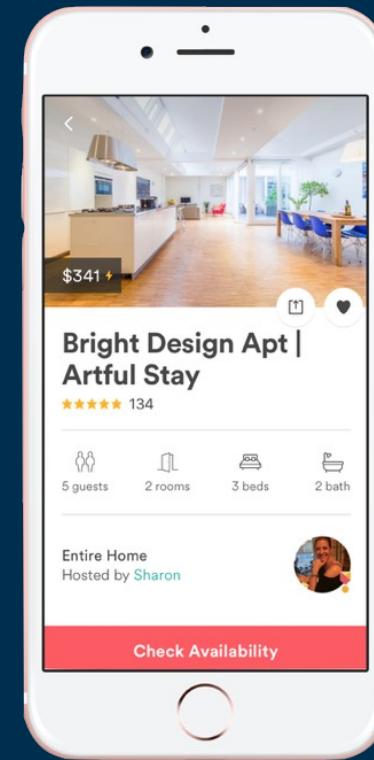
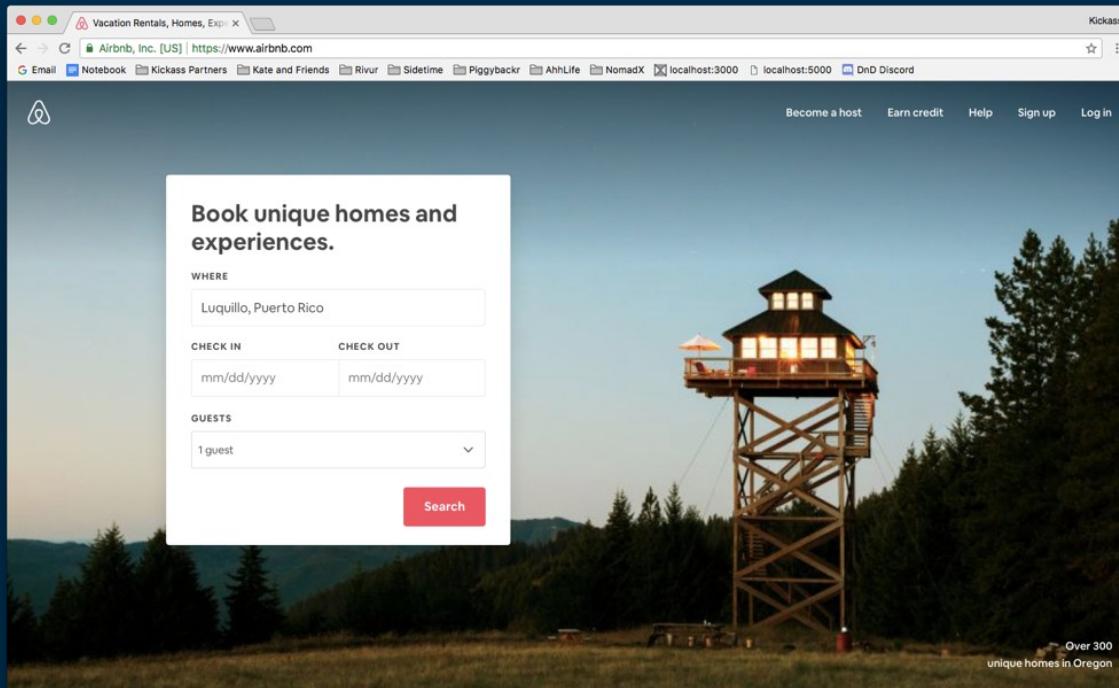


COMPONENTES



Aprende una vez...
¿escribelo donde
sea?





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codecademy

RALPH LAUREN



BBC

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WORDPRESS

Flipkart A logo featuring a stylized 'F' inside a square.

dailymotion

kissmetrics

**KHAN
ACADEMY**

TESLA



Walmart A logo featuring a stylized 'W' inside a square.



docker

reddit

asana

The New York Times

NETFLIX



imgur

zendesk

U B E R



CLOUDFLARE

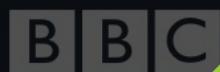
CONCUR

facebook



GitHub

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The New York Times

NETFLIX



imgur

zendesk

U B E R



C CONCUR

Introducción

¿Qué es React.js?

Componentes

¿Qué es un Componente?



Son Bloques de Construcción

Las aplicaciones hechas en React son como figuras de Lego. Junta varias piezas (los componentes) y puedes construir un website tan pequeño o tan grande como quieras.

'Componente' vs 'Elemento'

Un elemento es a un objeto como un componente es a una clase.

Si el elemento fuera una casa, el componente sería los planos para hacer esa casa.



Identificación de componentes

Dos preguntas guías:

- ¿Qué elementos se repiten?
- ¿Qué elementos cumplen una función muy específica?

Tokyo · Homes · Airbnb

Airbnb, Inc. [US] | https://www.airbnb.com/s/homes?refinement_paths%5B%5D=%2Fhomes&adults=0&children=0&infants=0&toddlers=0&query=Tokyo&place_id=ChIJ5... ☆ 🌐

Q Tokyo · Homes

Become a host Help Sign up Log in

Dates Guests Home type Price Instant Book Trip type More filters Show Map

ENTIRE APARTMENT · 2 BEDS
Quiet&near
Shinjuku/Shibuya#503
\$692 MXN per night
★★★★★ 218

PRIVATE ROOM · 1 BED
#301 Licensed.Tatami. 7mins
Sta
\$346 MXN per night
★★★★★ 222

PRIVATE ROOM · 1 BED
#302 Private room. 3 people ok.
7mins from Sta.
\$346 MXN per night
★★★★★ 207

SHARED ROOM · 1 BED
#212 Good access. Convenient.
7mins to Sta.
\$211 MXN per night
★★★★★ 209

ENTIRE APARTMENT · 2 BEDS
Near Shinjuku! Free Wifi Cozy
Room!
\$1,211 MXN per night
★★★★★ 204

ENTIRE HOUSE · 5 BEDS
Safe place 1minute from
station,上野Asakusa,秋葉原near
\$615 MXN per night
★★★★★ 168 · Superhost

ENTIRE APARTMENT · 2 BEDS
Lovely&near
Shinjuku/Shibuya#105
\$1,038 MXN per night
★★★★★ 110

PRIVATE ROOM · 2 BEDS
Close to Shibuya/Quiet
Neighborhood
\$519 MXN per night
★★★★★ 126 · Superhost

SHARED ROOM · 1 BED
#201 Licensed. 7mins
Sta,Tatami room. convinent
\$442 MXN per night
★★★★★ 241

ENTIRE APARTMENT · 2 BEDS
Shinjuku area 5 min Luxurious
apt!!
\$192 MXN per night
★★★★★ 13 · Superhost

Terms, Privacy, Currency & More

Elementos que se repiten

- Elementos en una lista
- Elementos que comparten aspecto visual y su funcionalidad.

...en una lista

Airbnb · Homes · Airbnb

Airbnb, Inc. [US] | https://www.airbnb.com/s/homes?refinement_paths%5B%5D=%2Fhomes&adults=0&children=0&infants=0&toddlers=0&query=Tokyo&place_id=ChIJ5...

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Dates Guests Home type Price Instant Book Trip type More filters Show Map



ENTIRE APARTMENT · 2 BEDS
Quiet&near
Shinjuku/Shibuya#503
\$692 MXN per night
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#301 Licensed.Tatami. 7mins
Sta
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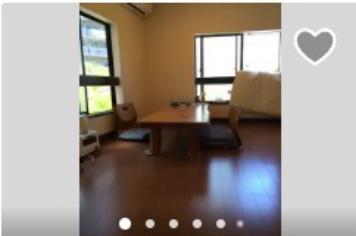
PRIVATE ROOM · 1 BED
#302 Private room. 3 people ok.
7mins from Sta.
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SHARED ROOM · 1 BED
#212 Good access. Convenient.
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★★★★★ 218



★★★★★ 222



★★★★★ 207



★★★★★ 209



★★★★★ 204

...en una lista

Airbnb, Inc. [US] | https://www.airbnb.com/s/homes?refinement_paths%5B%5D=%2Fhomes&adults=0&children=0&infants=0&toddlers=0&query=Tokyo&place_id=ChIJ5...

Become a host Help Sign up Log in

Tokyo · Homes

Dates Guests Home type Price Instant Book Trip type More filters Show Map

Room Type	Description	Price	Rating
ENTIRE APARTMENT - 2 BEDS	Quiet&near Shinjuku/Shibuya#503	\$692 MXN per night	★★★★★ 218
PRIVATE ROOM - 1 BED	#301 Licensed.Tatami. 7mins Sta	\$346 MXN per night	★★★★★ 222
PRIVATE ROOM - 1 BED	#302 Private room. 3 people ok. 7mins from Sta.	\$346 MXN per night	★★★★★ 207
SHARED ROOM - 1 BED	#212 Good access. Convenient. 7mins to Sta.	\$211 MXN per night	★★★★★ 209
ENTIRE APARTMENT - 2 BEDS	Near Shinjuku! Free Wifi Cozy Room!	\$1,211 MXN per night	★★★★★ 204
ENTIRE APARTMENT - 2 BEDS	Large 2bed apt near Shinjuku station	\$1,211 MXN per night	★★★★★ 204
ENTIRE APARTMENT - 2 BEDS	Large 2bed apt near Shinjuku station	\$1,211 MXN per night	★★★★★ 204
ENTIRE APARTMENT - 2 BEDS	Large 2bed apt near Shinjuku station	\$1,211 MXN per night	★★★★★ 204

que comparten aspecto visual y su

Screenshot of the Airbnb search results for "Tokyo · Homes". The search bar shows "Tokyo · Homes" and the URL is https://www.airbnb.com/s/homes?refinement_paths%5B%5D=%2Fhomes&adults=0&children=0&infants=0&toddlers=0&query=Tokyo&place_id=ChIJ5...".

The page displays several listing cards for different types of accommodations in Tokyo. A modal window titled "Trip type" is open, showing two filter options:

- For families**: Explore entire homes with 5-star reviews from families and essentials like a kitchen and TV. An "Apply" button is visible at the bottom right of the modal.
- For work**: Explore top-rated homes with essentials like a workspace, wifi, and self check-in.

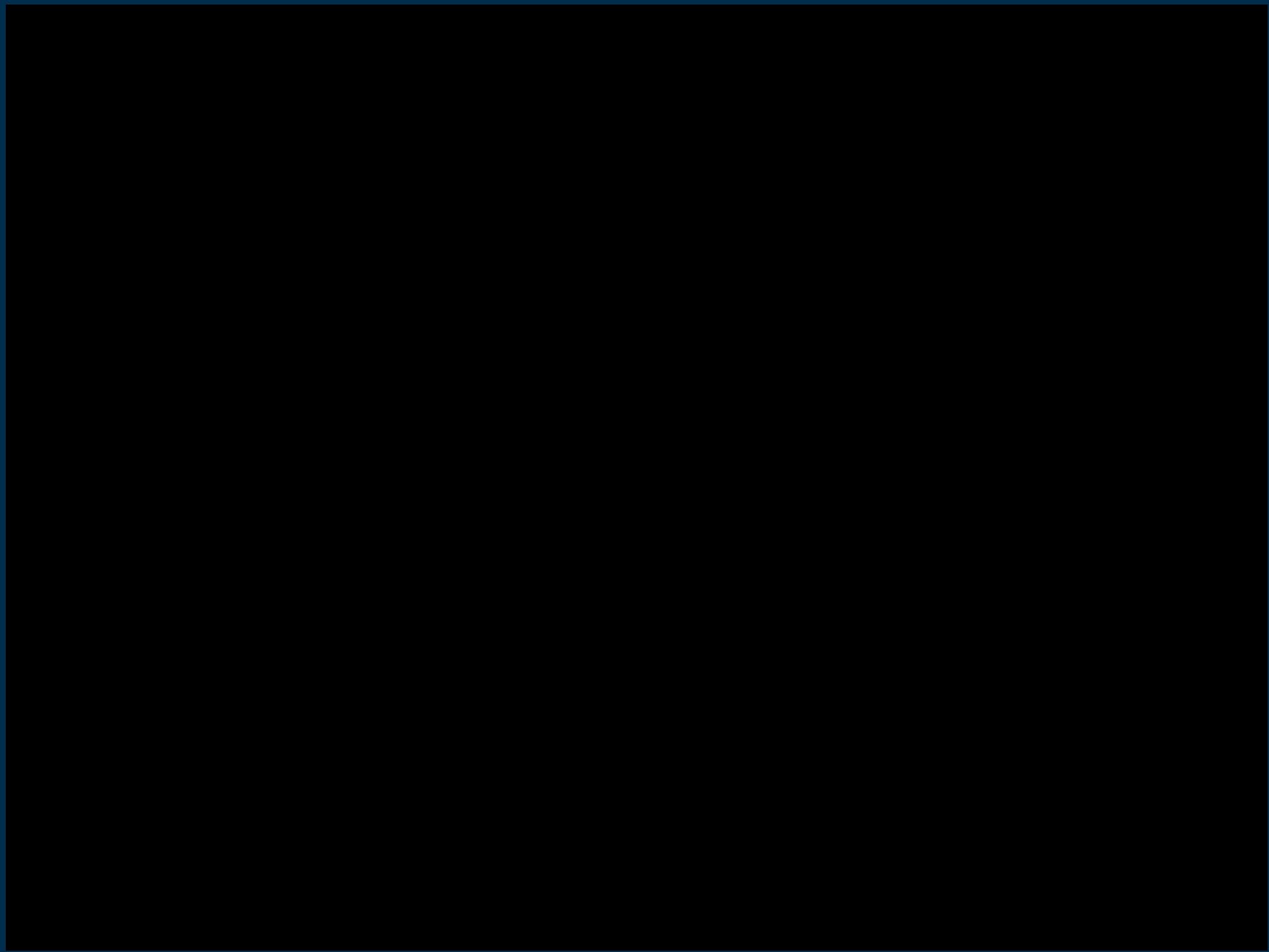
Two red arrows point to the "X" icons on the "For families" and "For work" filter buttons. A third red arrow points upwards towards the "Apply" button.

Listing details shown in the screenshot:

- ENTIRE APARTMENT - 2 BEDS**
Quiet&near
Shinjuku/Shibuya#503
\$692 MXN per night
★★★★★ 218
- PRIVATE ROOM - 1BED**
#301 Licensed.Tatami. 7mi Sta
\$346 MXN per night
★★★★★ 222
- ENTIRE APARTMENT - 2 BEDS**
Near Shinjuku! Free Wifi Cozy Room!
\$1,211 MXN per night
★★★★★ 204

Elementos con una función específica

- Sirven para encapsular lógica.
- Permiten juntar muchos comportamientos y aspectos visuales en un solo lugar.



San Juan, Puerto Rico · Homes +

← → C Airbnb, Inc. [US] | https://www.airbnb.com/s/homes?refinement_paths%5B%5D=%2Fhomes&adults=0&children=0&infants=0&toddlers=0&query=San%20Juan%2C%20... ☆ ⚙️ 📸 📜

San Juan, Puerto Rico · Homes

Become a host Help Sign up Log in

Dates Guests Home type Price Instant Book Trip type More filters Show Map X

Explore all 300+ homes



ENTIRE GUEST SUITE · 1 BED
Treehouse w floating deck steps from the beach
★★★★★ 237



ENTIRE LOFT · 1 BED
Modern Studio w. Spectacular View, Parking On Site
★★★★★ 88 · Superhost



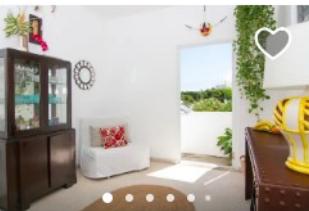
ENTIRE APARTMENT · 2 BEDS
10th Floor Studio ON Beach w/Pool & Parking @ Máre
★★★★★ 308 · Superhost



ENTIRE APARTMENT · 2 BEDS
Luxury Oceanview/ Condado /San juan
★★★★★ 214 · Superhost



PLUS VERIFIED · ENTIRE APARTMENT
Wander the Checkerboard Floors at a Welcoming...
★★★★★ 156



ENTIRE APARTMENT · 1 BED
CasaBlanca | BRISA · 1 BDR Apartment
★★★★★ 277 · Superhost



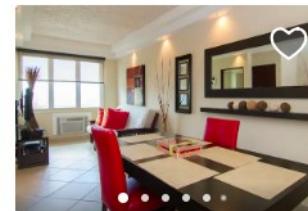
ENTIRE APARTMENT · 1 BED
Nice studio apartment, totally independent.
★★★★★ 90 · Superhost



ENTIRE APARTMENT · 2 BEDS
BEST DEAL! BEST LOCATION! Whole Apt Fits 3
★★★★★ 196



ENTIRE CONDOMINIUM · 1 BED
Beautiful Modern Style & Location
★★★★★ 190 · Superhost



ENTIRE APARTMENT · 2 BEDS
Explore San Juan from charming Condo w/ Bay Views
★★★★★ 221 · Superhost

<https://www.airbnb.com/rooms/3522399?adults=0&children=0&infants=0&toddlers=0>

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“

**Identificar componentes
es una habilidad
esencial para poder
desarrollar aplicaciones
de React.**

”

Componentes

¿Qué es un Componente?

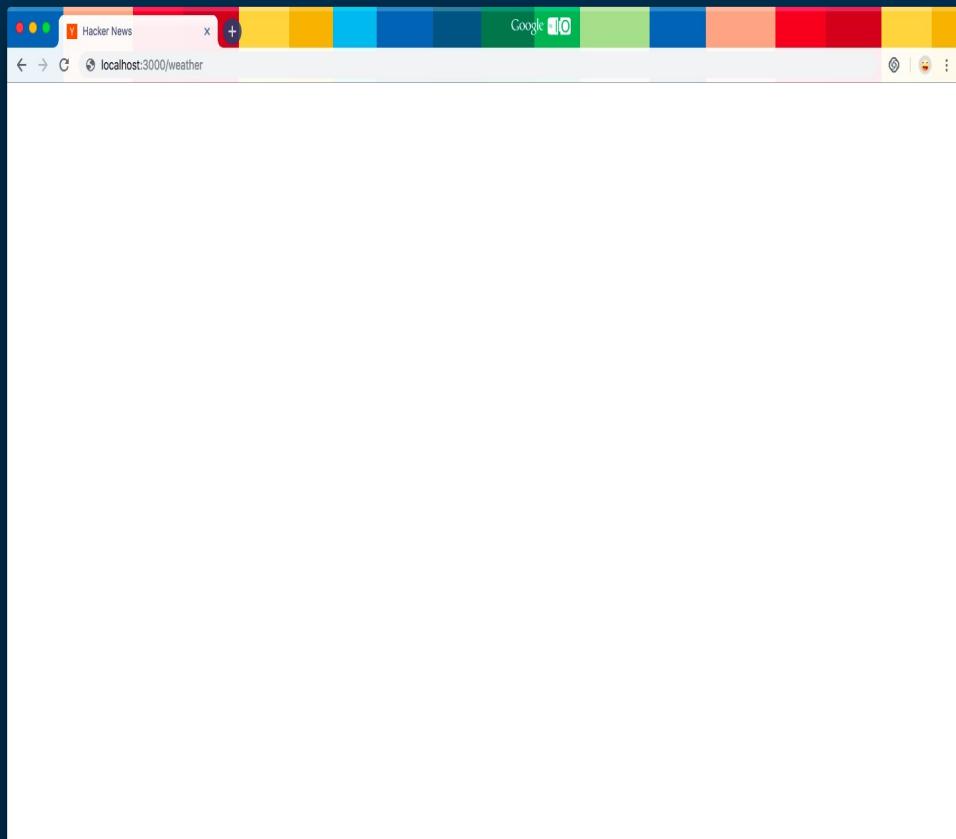
React Router v4

Introducción

Multi Page Apps

- Cada página implica una petición al servidor. La respuesta usualmente tiene todo el contenido de la página.

url: /

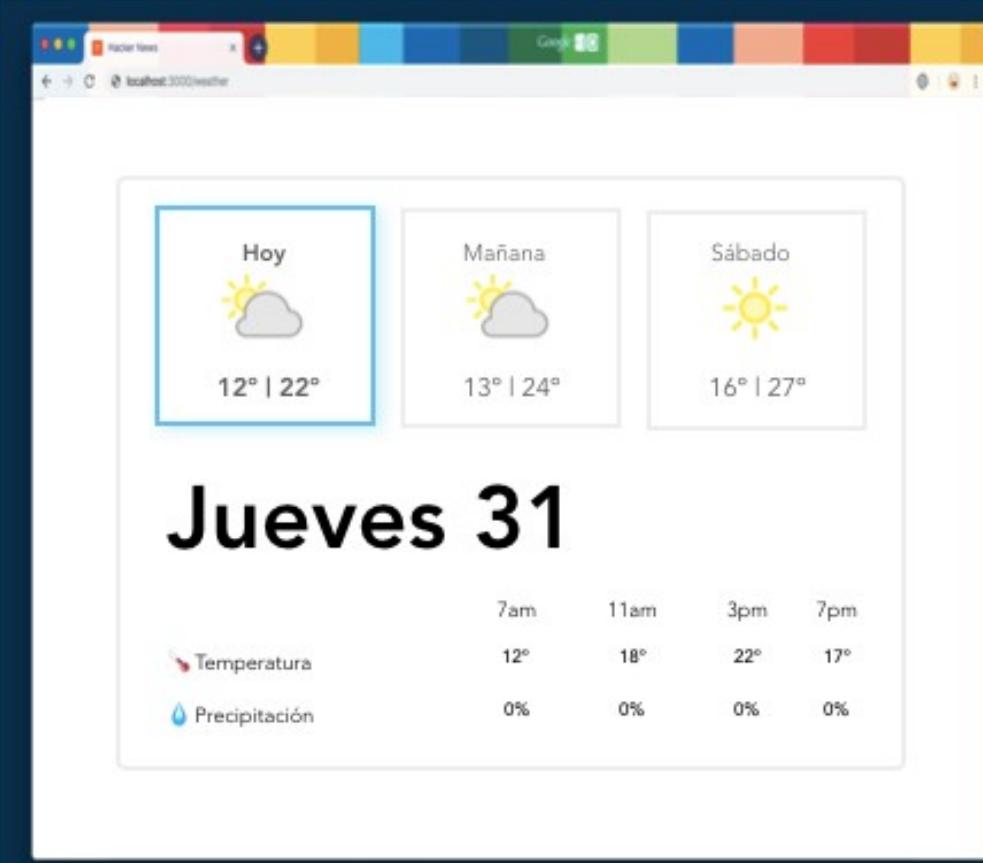


Client



index.htm
ml

url: /

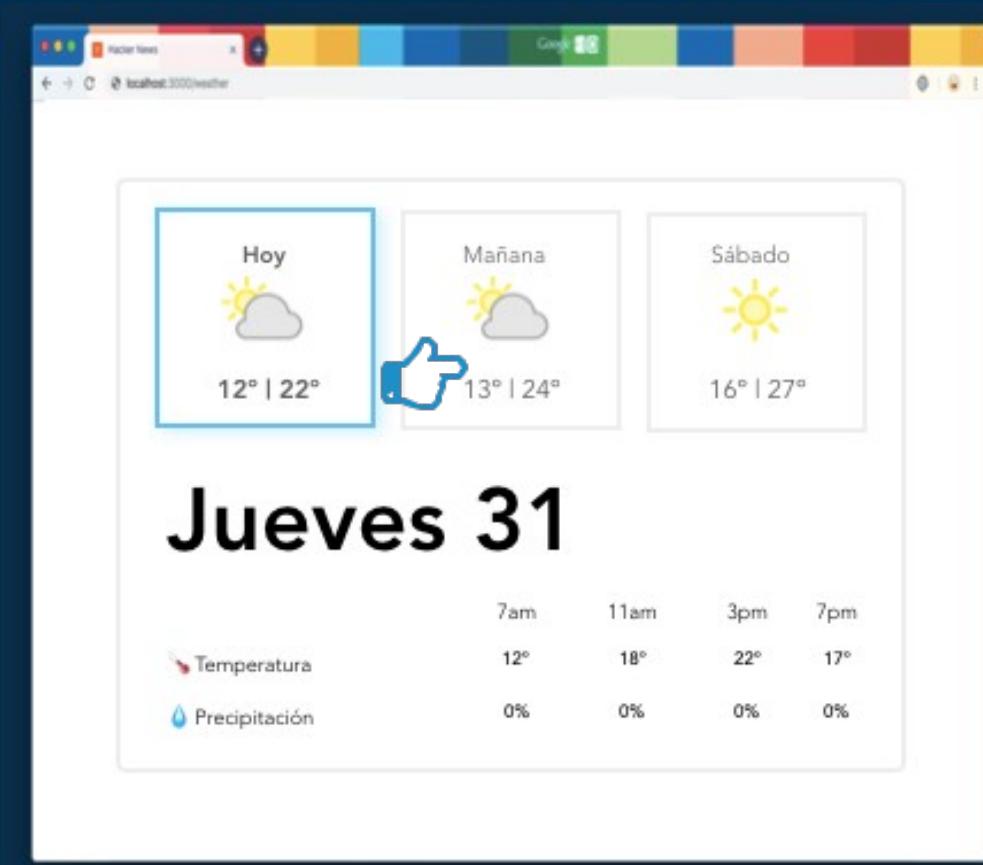


Client

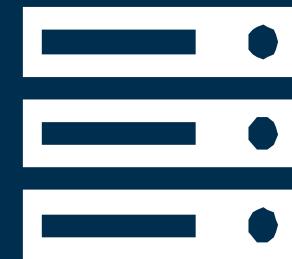


m
g
%

url: /

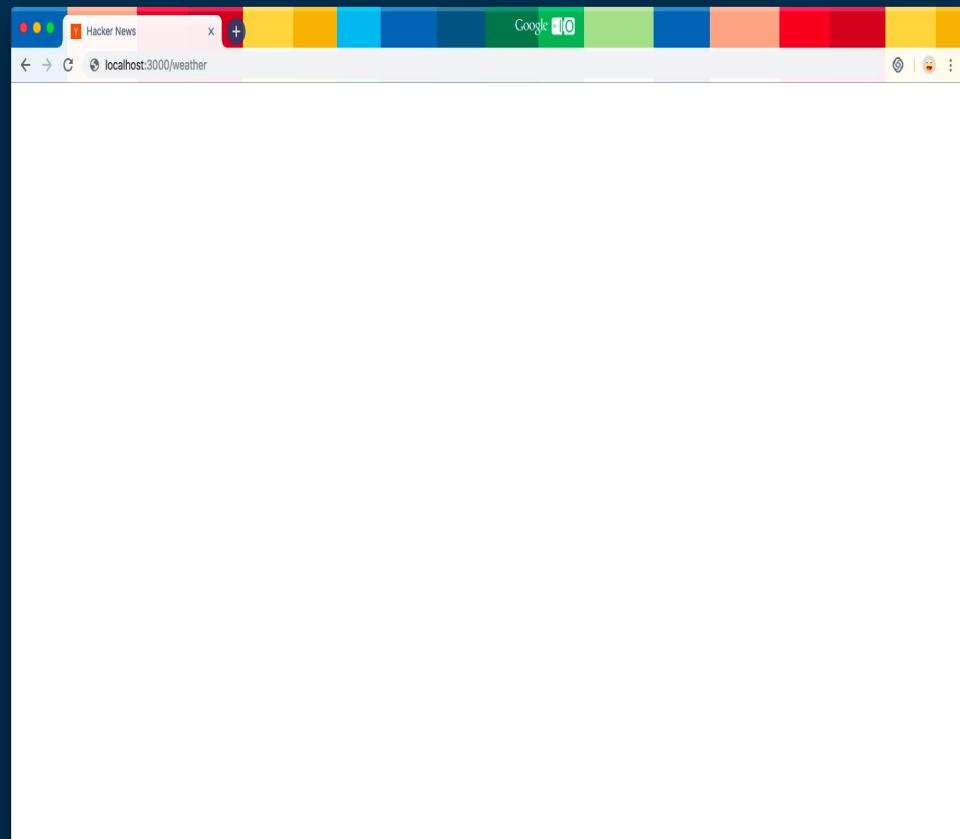


Client



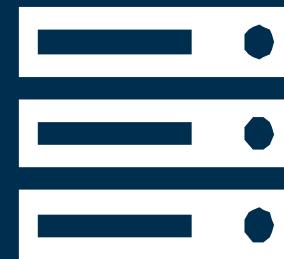
Server

url: /manana



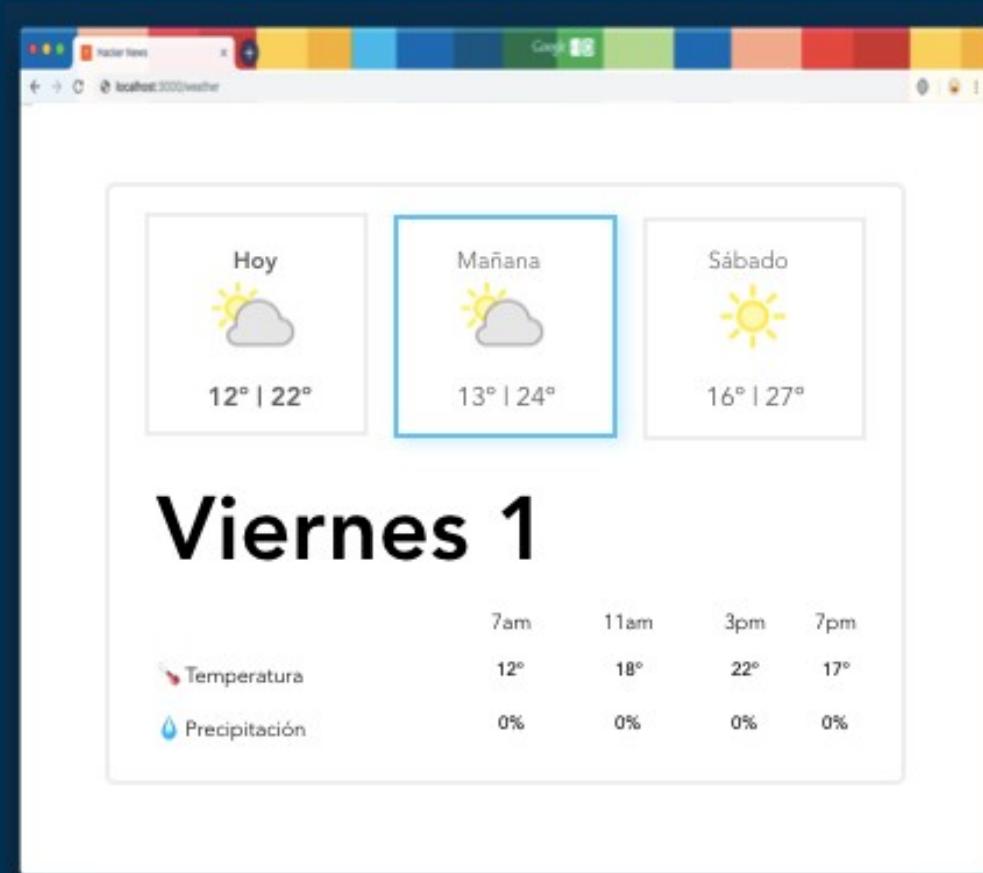
Client

→
manana/
index.html



Server

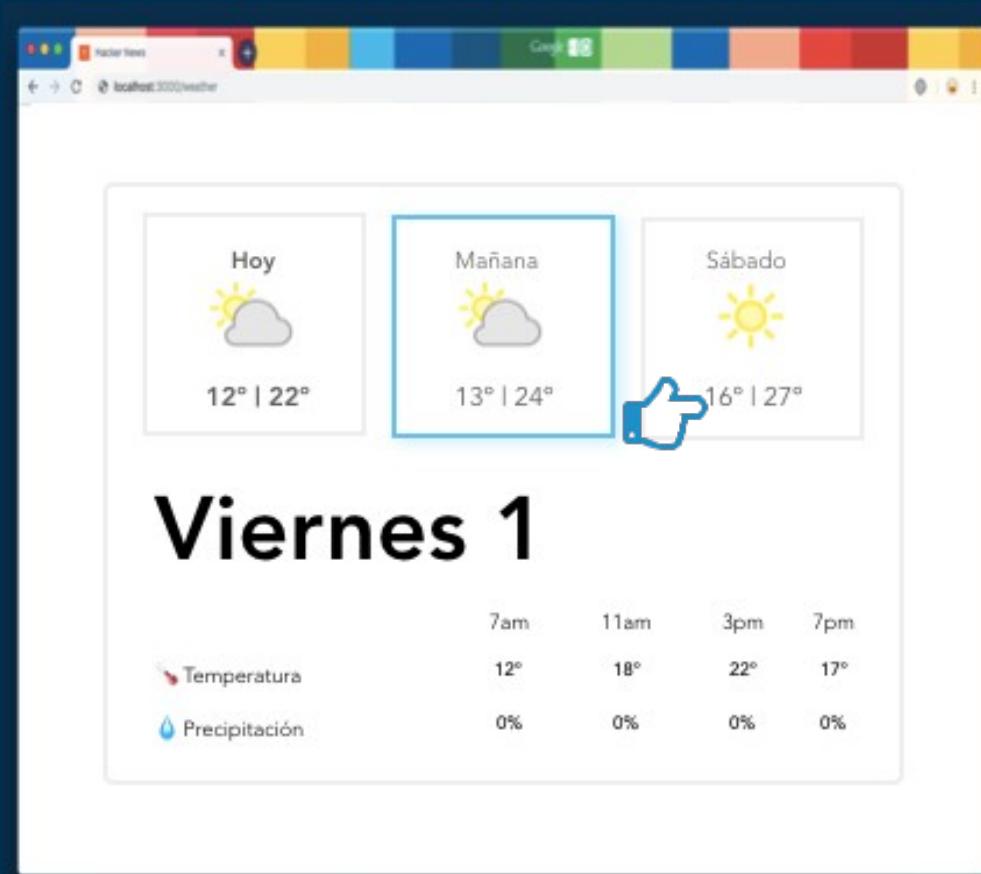
url: /manana



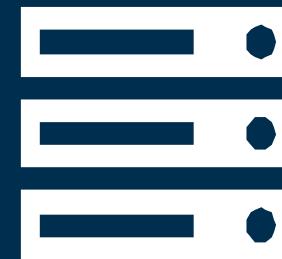
Client



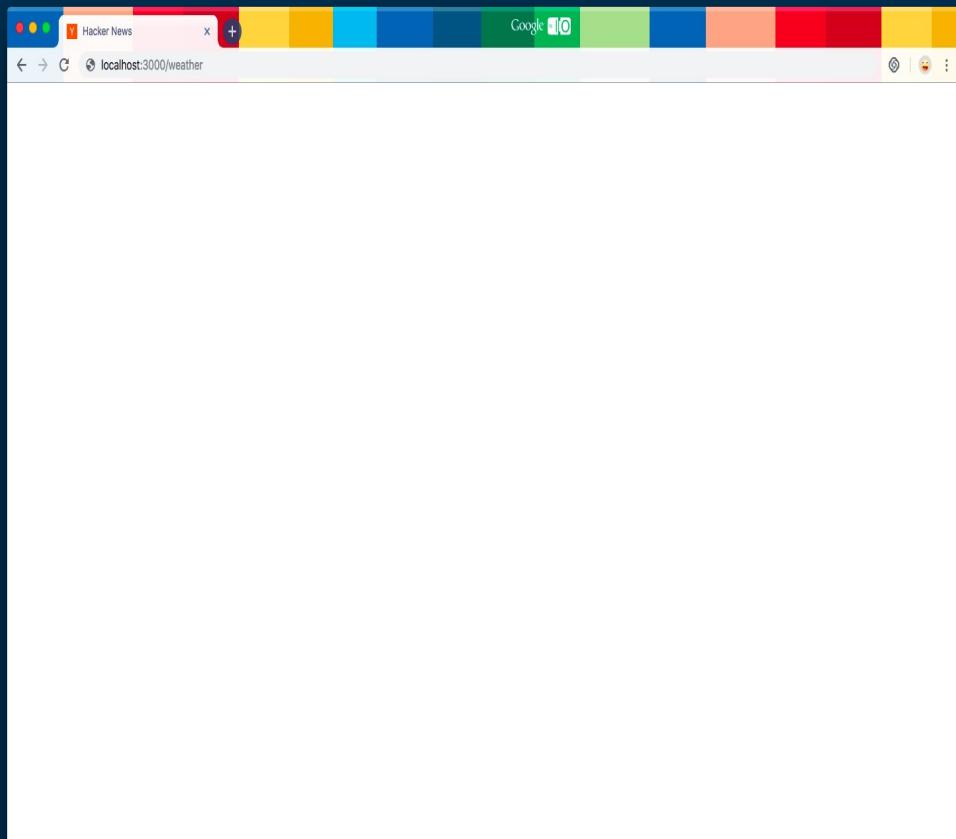
url: /manana



Client

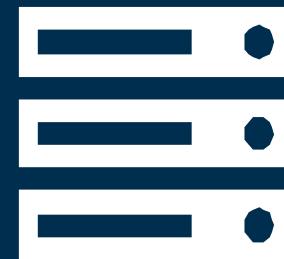


url: /sabado



Client

sabado/
index.html

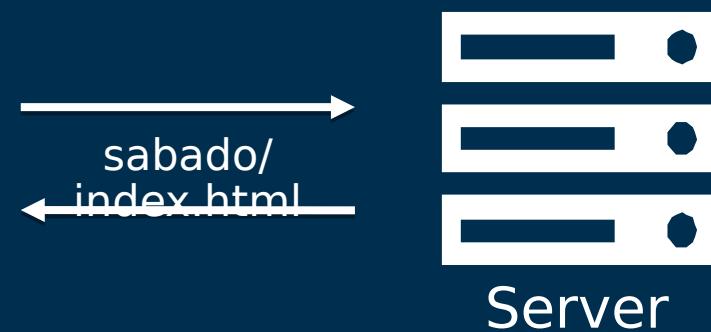


Server

url: /sabado



Client

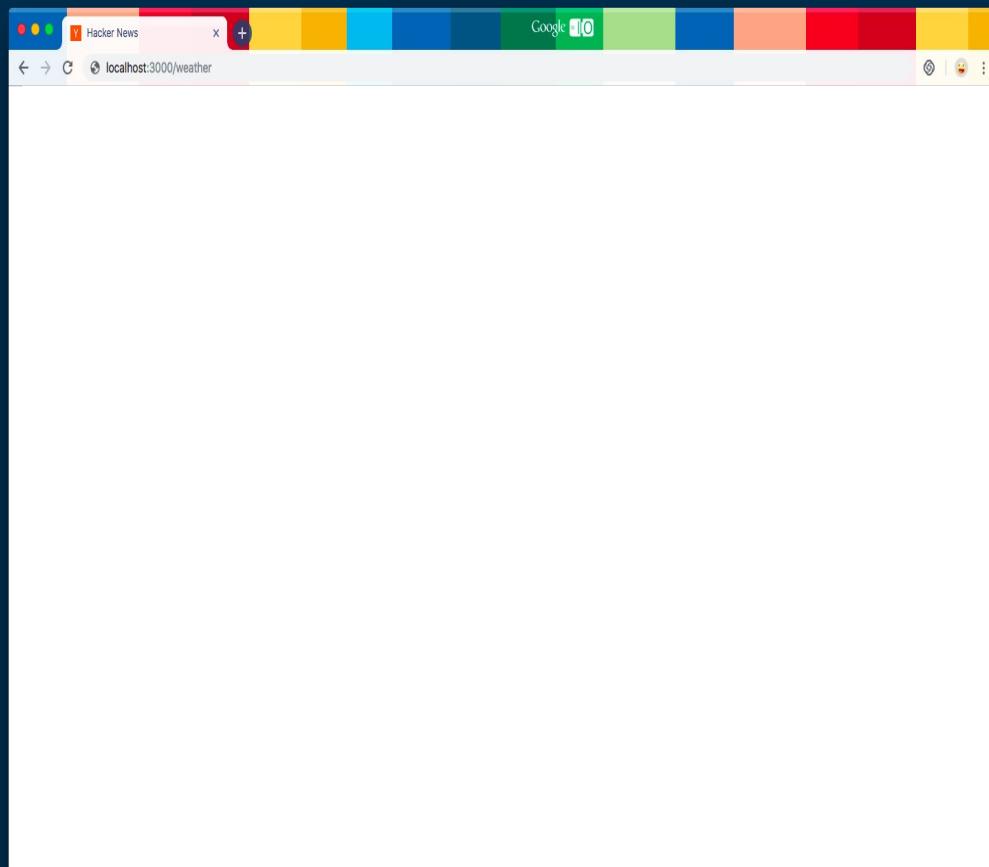


Server

Single Page Apps (SPA)

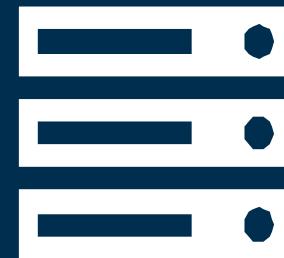
- Aplicaciones que cargan una sola página de HTML y cualquier actualización la hacen re-escribiendo el HTML que ya tenía.

url: /



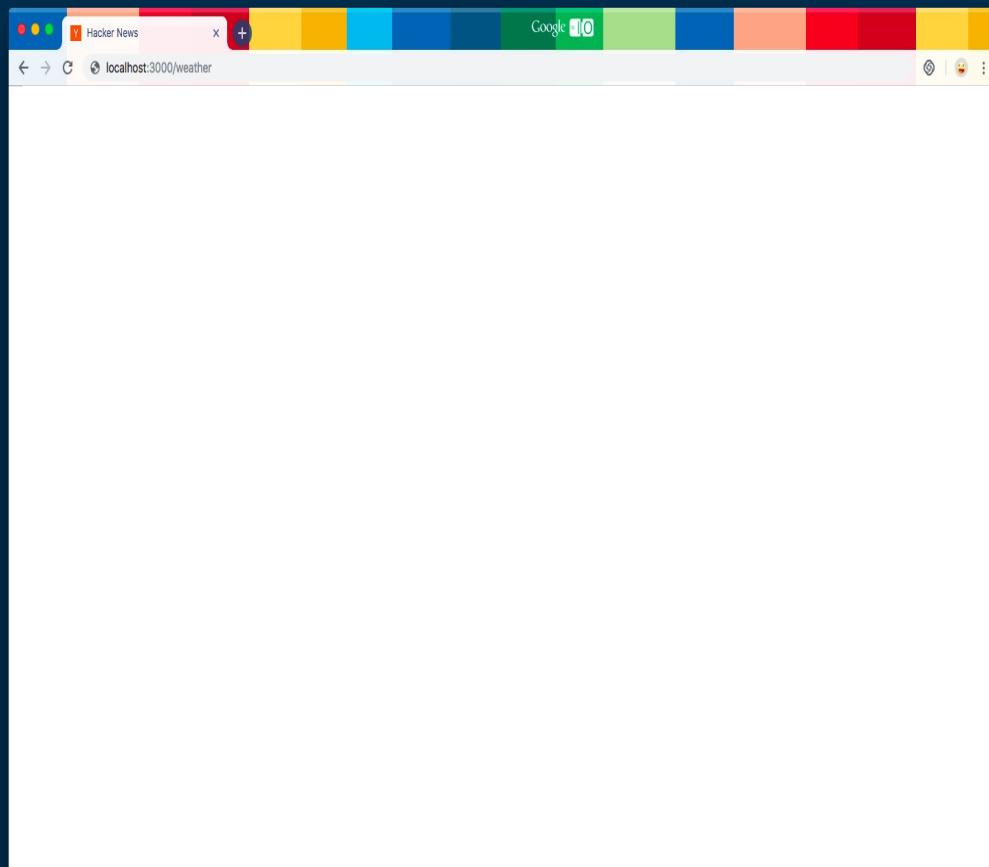
Client

index.htm
ml

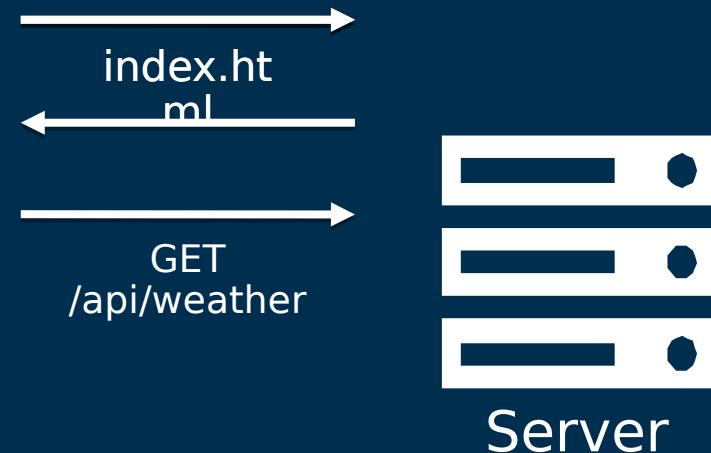


Server

url: /

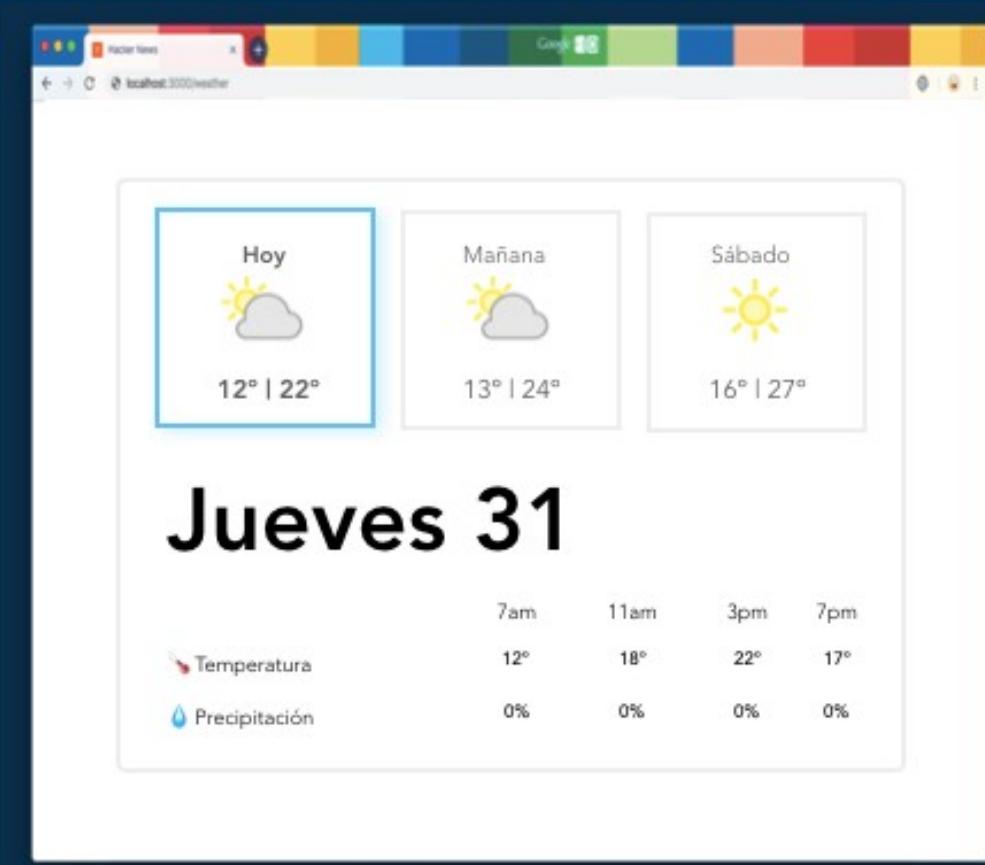


Client

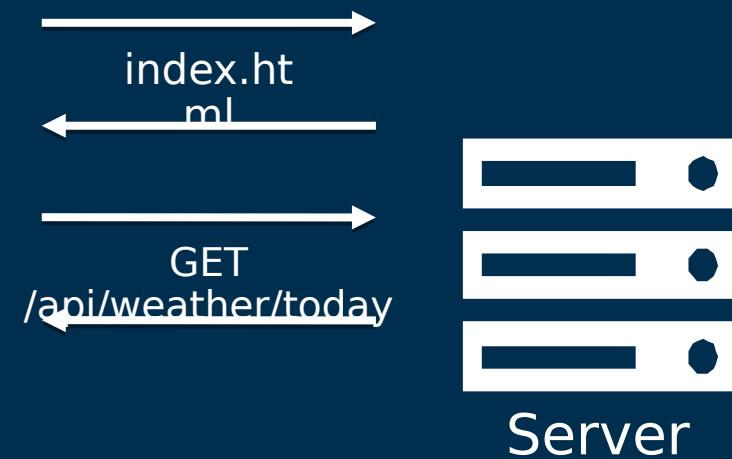


Server

url: /

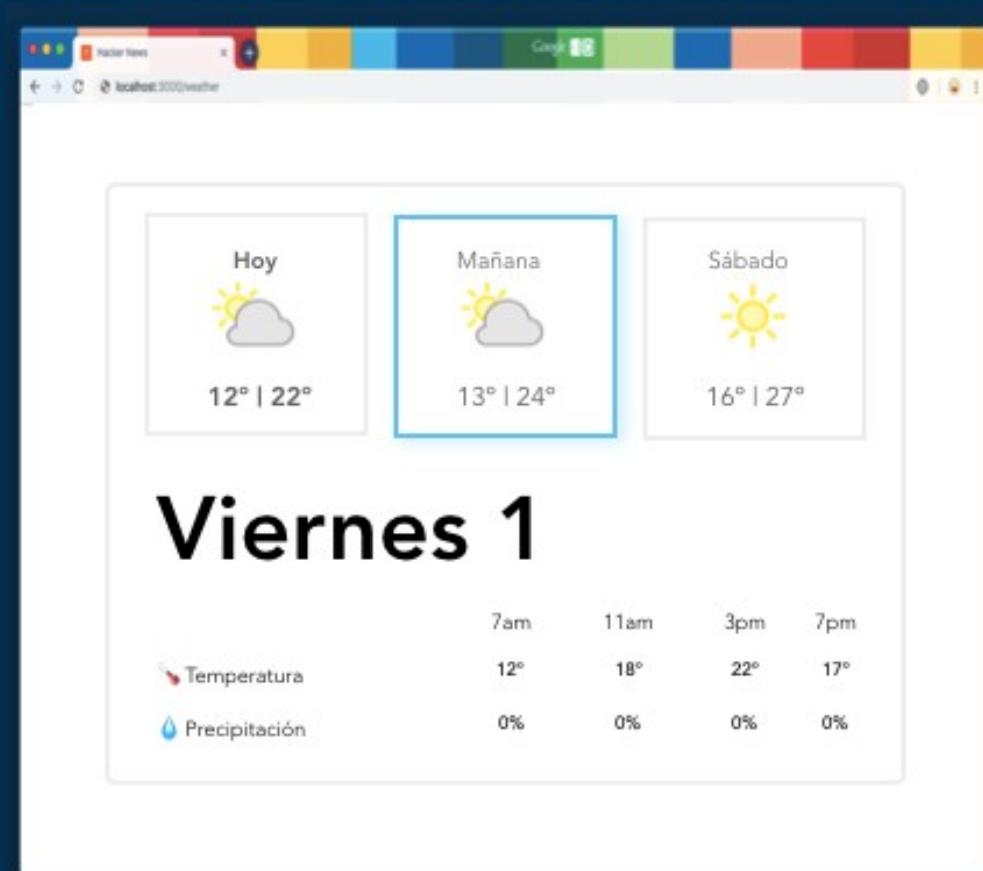


Client

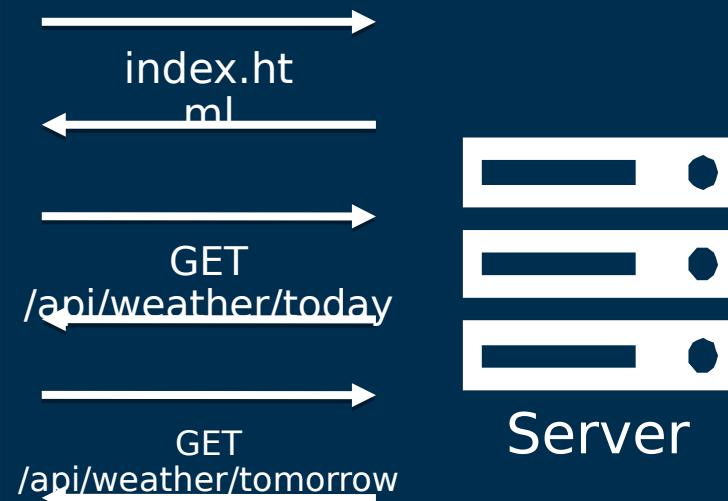


Server

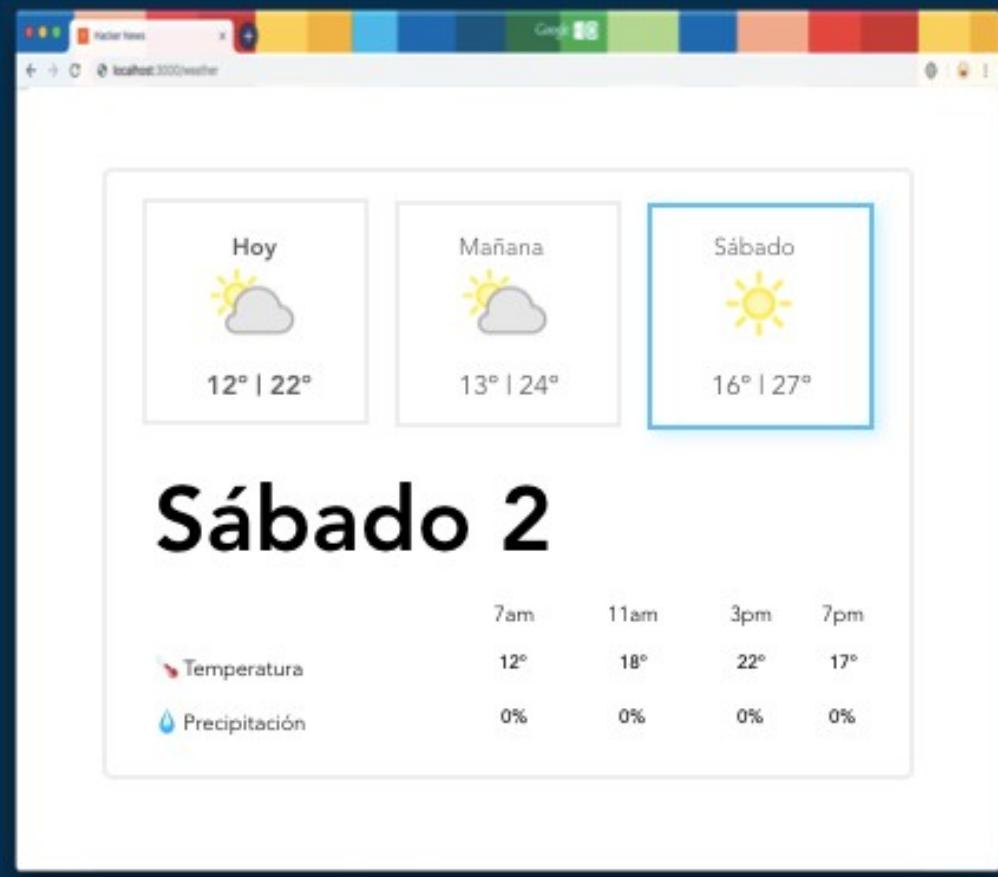
url: /manana



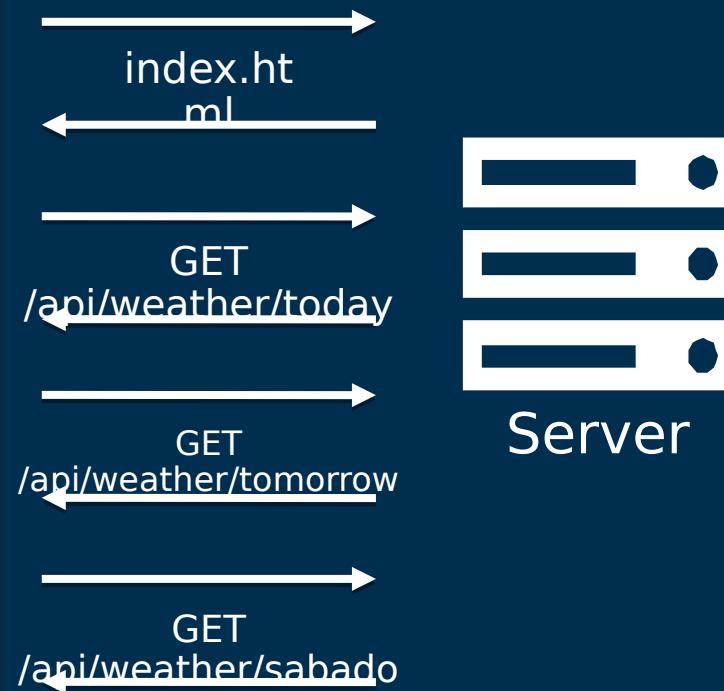
Client



url: /sabado



Client



React Router (v4)

- Nos da las herramientas para poder hacer SPA fácilmente.
- Usaremos 4 componentes:
 - BrowserRouter
 - Route
 - Switch
 - Link

<BrowserRouter>

```
import React from 'react';
import { BrowserRouter } from 'react-router-dom';

export default class App extends React.Component {
  render() {
    return (
      <BrowserRouter>
        {...}
      </BrowserRouter>
    );
  }
}
```

<Route />

Ejemplo: <Route *path*="/" *component*={Home} />

- Cuando hay un match con el path, se hace render del component.
- El component va a recibir tres props: match, history, location.

<Switch />

- Dentro de Switch solamente van elementos de Route.
- Switch se asegura que solamente un Route se renderea.

<Link />

- Toma el lugar del elemento <a>.
- Evita que se recargue la página completamente.
- Actualiza la URL.

Curso de React Router

Platzi, Inc [US] | https://platzi.com/cursos/react-router/

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Curso de React Router

★★★★★ Leer más opiniones (114)

Crea la interfaz de una app con React; maneja los datos con Redux y genera el enrutamiento con React Router. Aprende a mostrar las rutas de las apps de forma dinámica usando la tecnología Server Side Render (SSR) y olvídate de refrescar el sitio cada vez que cambias de ruta.

¡Qué privilegio tenerte entre nuestros estudiantes activos!

Ir al curso

Con este curso podrás:

- Manejar los componentes que provee React Router
- Generar integración con React.js y Redux
- Entender Server Side Render (SSR) con React Router

Temario del curso

Introducción al curso

Server Render

React Router v4

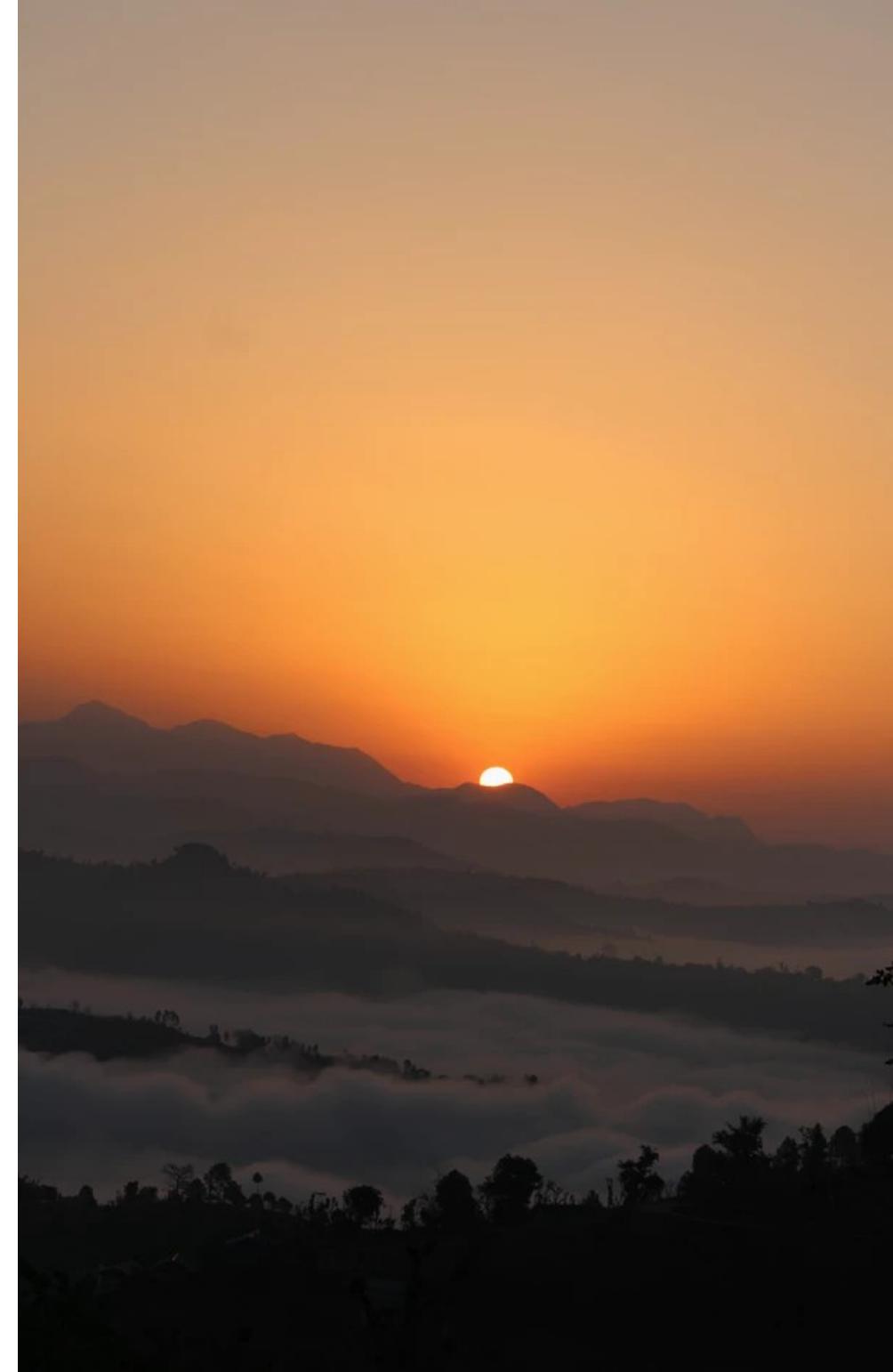
Introducción

El Ciclo de Vida de un Componente

Introducción

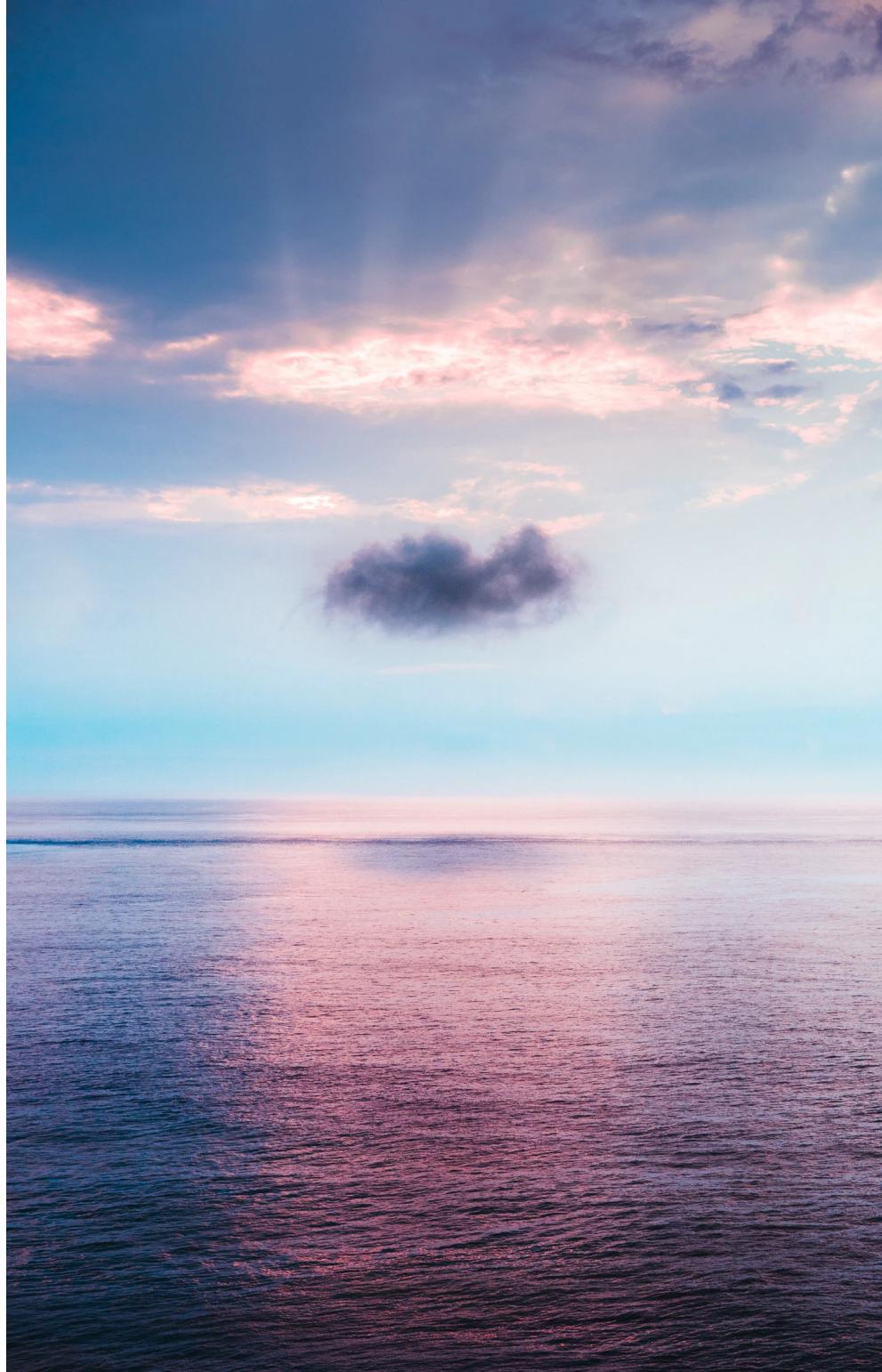
Montaje

- Representa el momento donde se inserta el código del componente en el DOM.
- Se llaman tres métodos: constructor, render, componentDidMount.



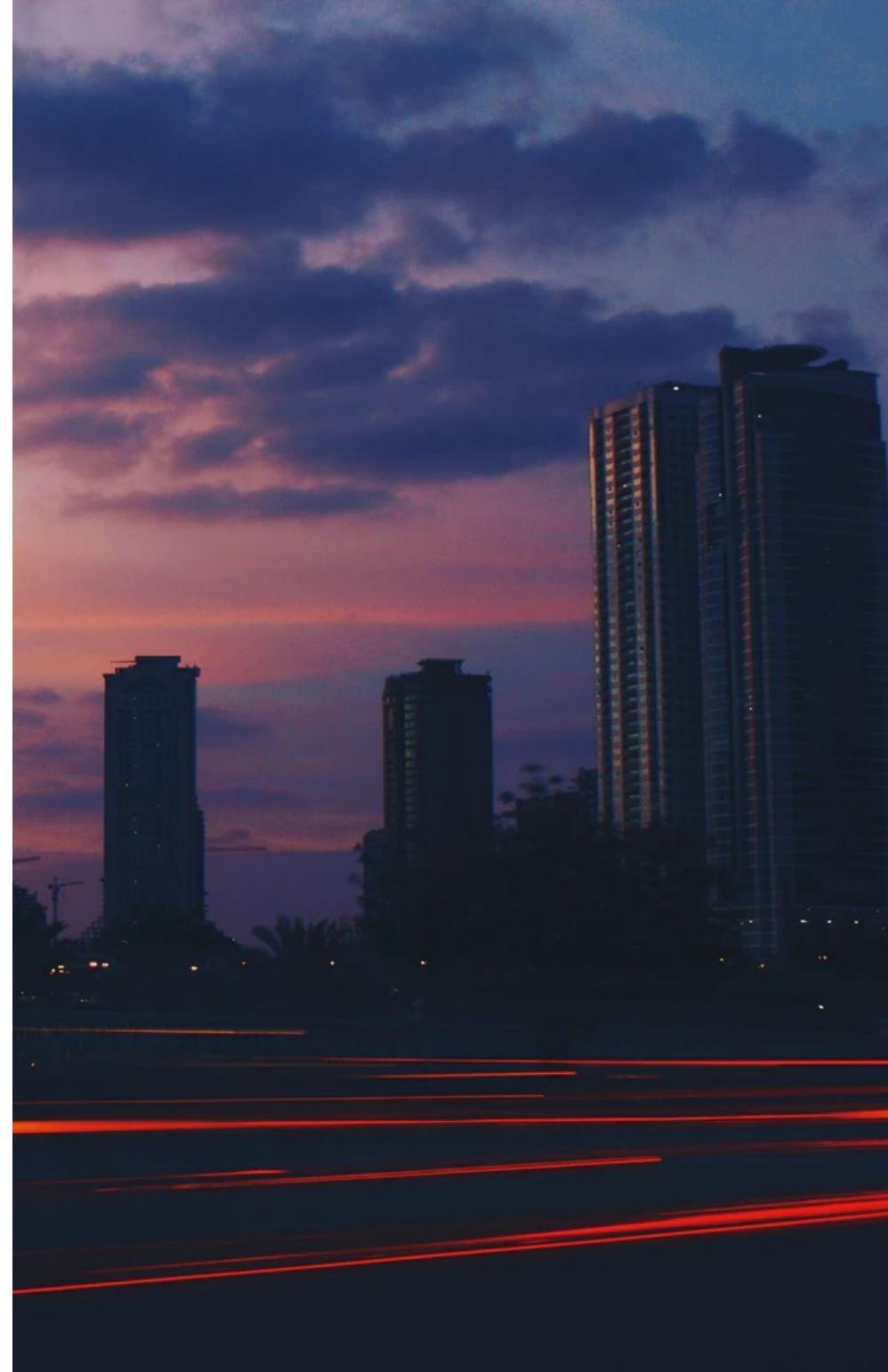
Actualización

- Ocurre cuando los props o el estado del componente cambia.
- Se llaman dos métodos: render, componentDidUpdate.

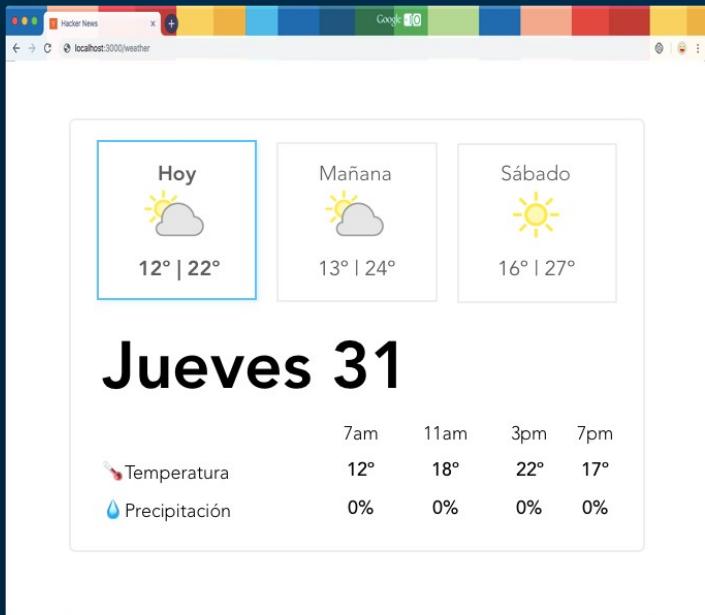


Desmontaje

- Nos da la oportunidad de hacer limpieza de nuestro componente.
- Se llama un método: `componentWillUnmount`.



<WeatherWidget />



<div

>

<ForecastSummary

isSelected={true} />

<ForecastSum <ForecastSum

mary />

mary />

<Forecast />

<div />

<html>

Montaje

```
<html>
  <head>...</head>
  <body>
    <header>
      <div class="Weather">...</div>
    </header>

    <main>
      <h1>The Weather</h1>
    </main>

    <footer>...</footer>
  </body>
</html>
```



<html>

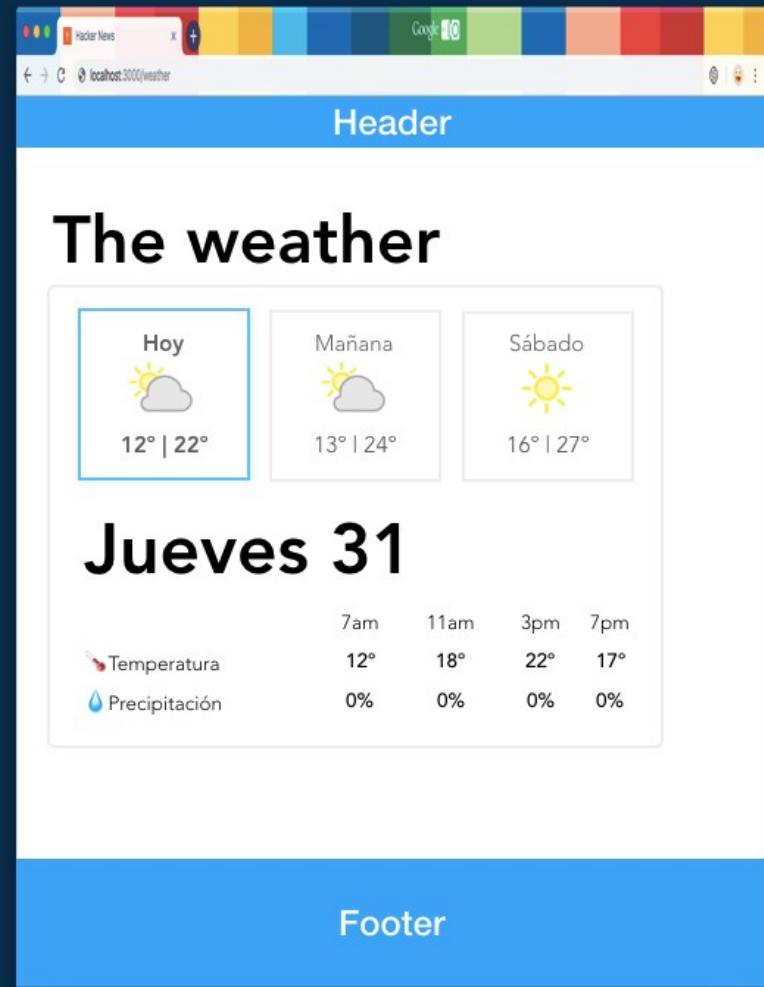
Montaje

```
<html>
  <head>...</head>
  <body>
    <header>
      <div class="NavBar">...</div>
    </header>

    <main>
      <h1>The Weather</h1>
      <div class="WeatherWidget">
        <div>
          <div class="ForecastSummary active">...</div>
          <div class="ForecastSummary">...</div>
          <div class="ForecastSummary">...</div>
        </div>

        <div className="Forecast">
          <h2>Jueves 31</h2>
          ...
        </div>
      </div>
    </main>

    <footer>...</footer>
  </body>
</html>
```



<html>

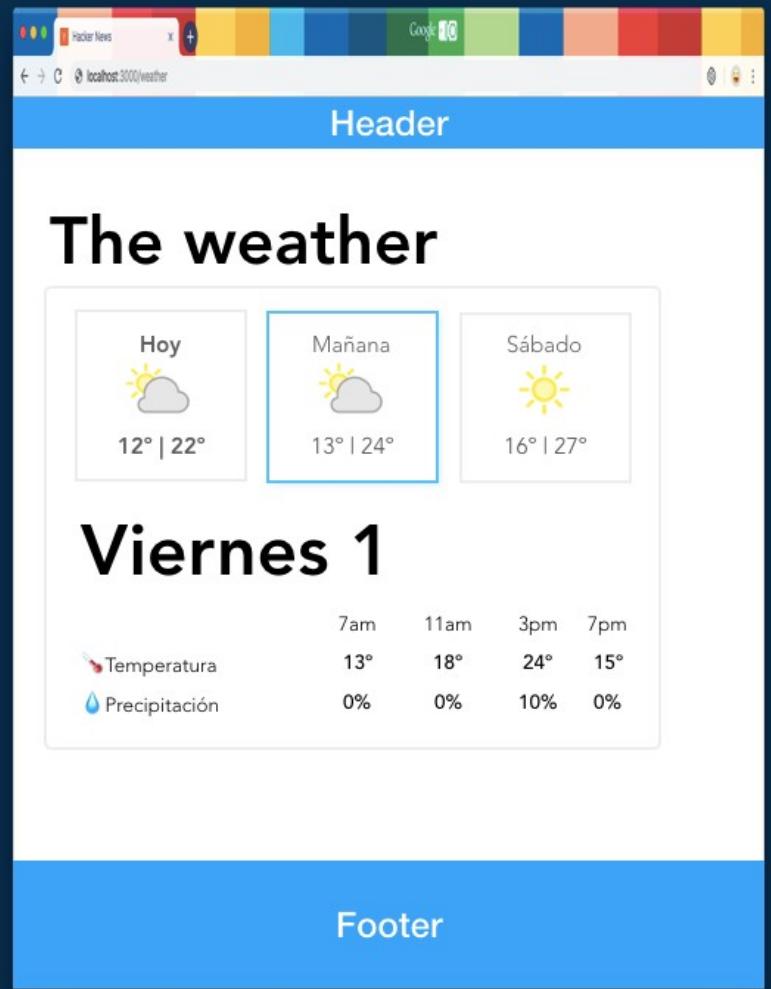
Actualización

```
<html>
  <head>...</head>
  <body>
    <header>
      <div class="NavBar">...</div>
    </header>

    <main>
      <h1>The Weather</h1>
      <div class="WeatherWidget">
        <div>
          <div class="ForecastSummary">...</div>
          <div class="ForecastSummary active">...</div>
          <div class="ForecastSummary">...</div>
        </div>

        <div className="Forecast">
          <h2>Viernes 1</h2>
          ...
          </div>
        </div>
      </main>

      <footer>...</footer>
    </body>
  </html>
```



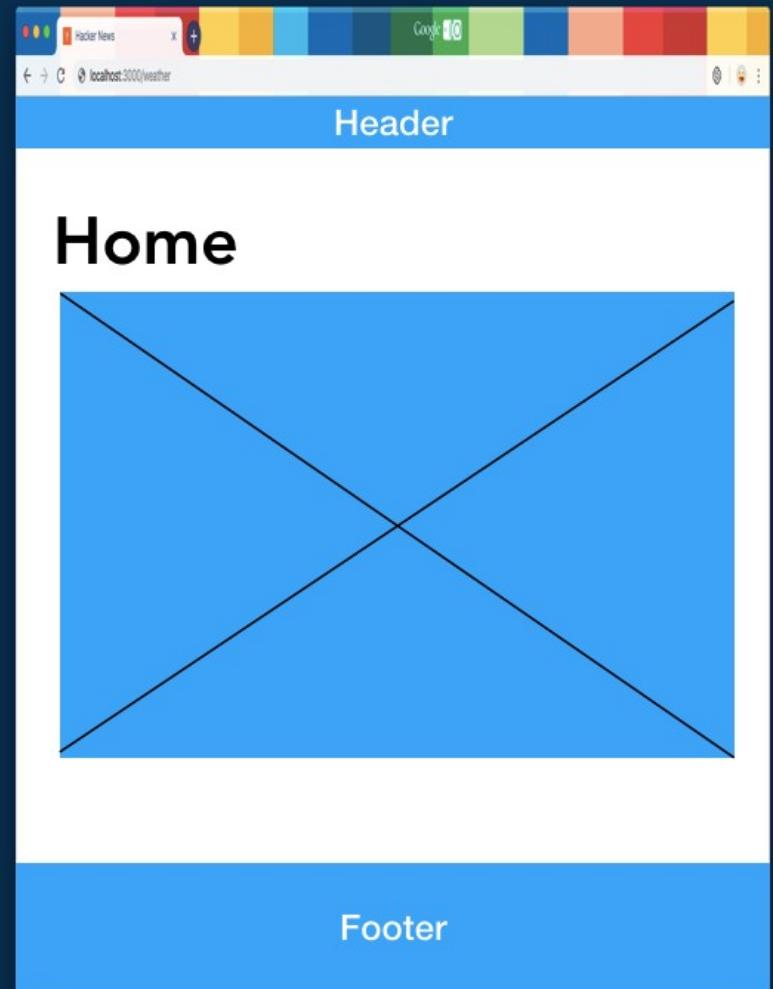
<html>

Desmontaje

```
<html>
  <head>...</head>
  <body>
    <header>
      <div class="NavBar">...</div>
    </header>

    <main>
      <h1>Home</h1>
      <div>
        ...
      </div>
    </main>

    <footer>...</footer>
  </body>
</html>
```



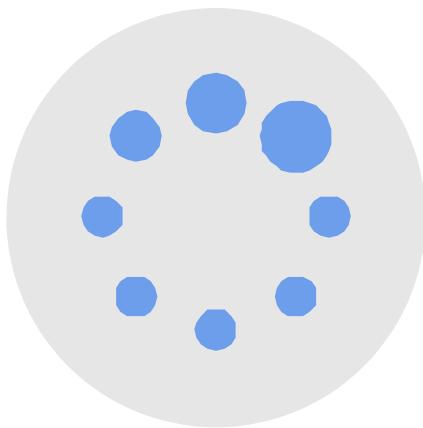
El Ciclo de Vida de un Componente

Introducción

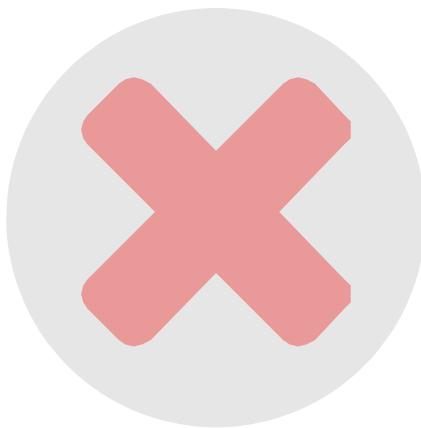
Llamadas a una API

Introducción

Tres estados



Loading

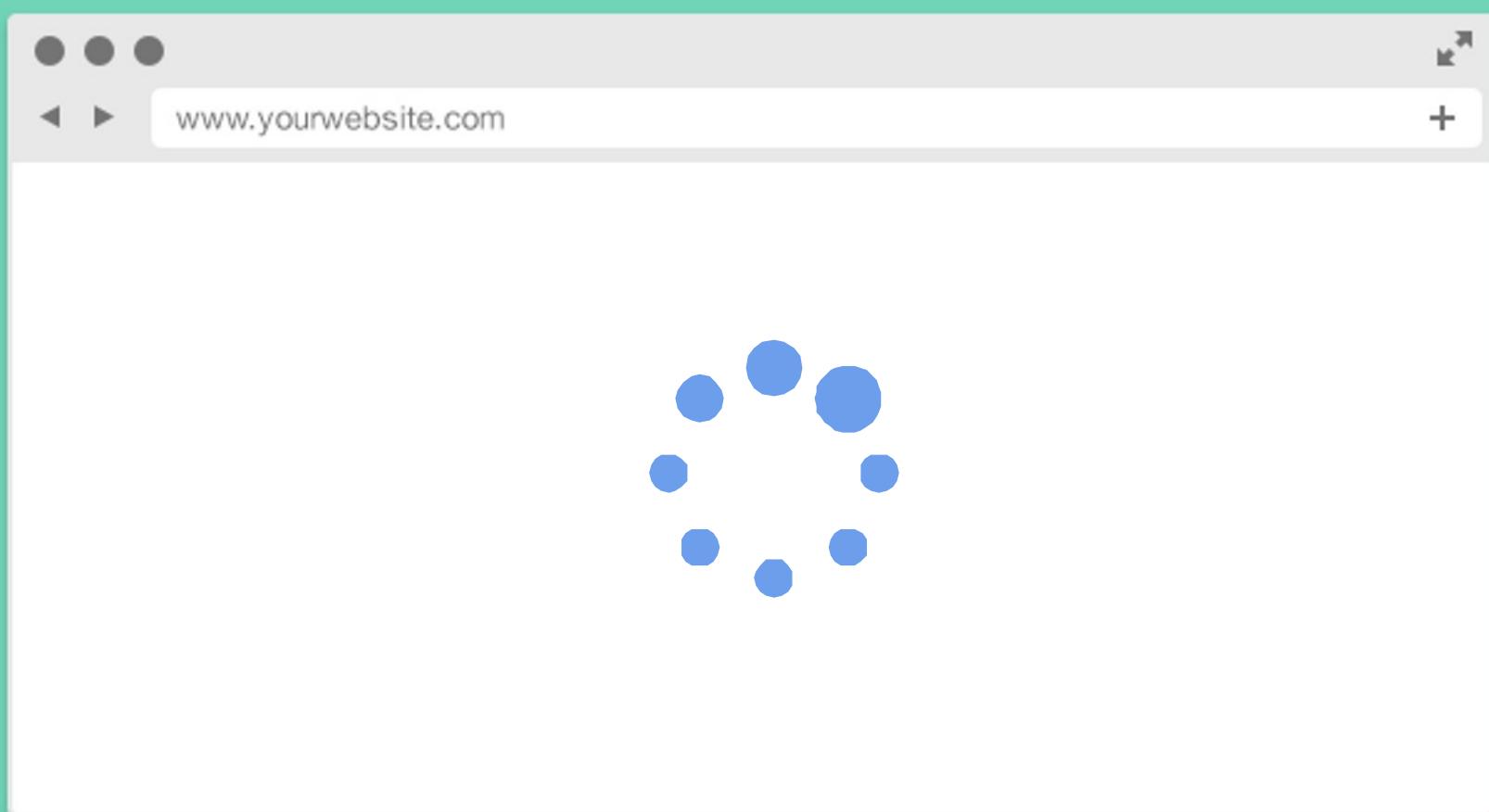


Error

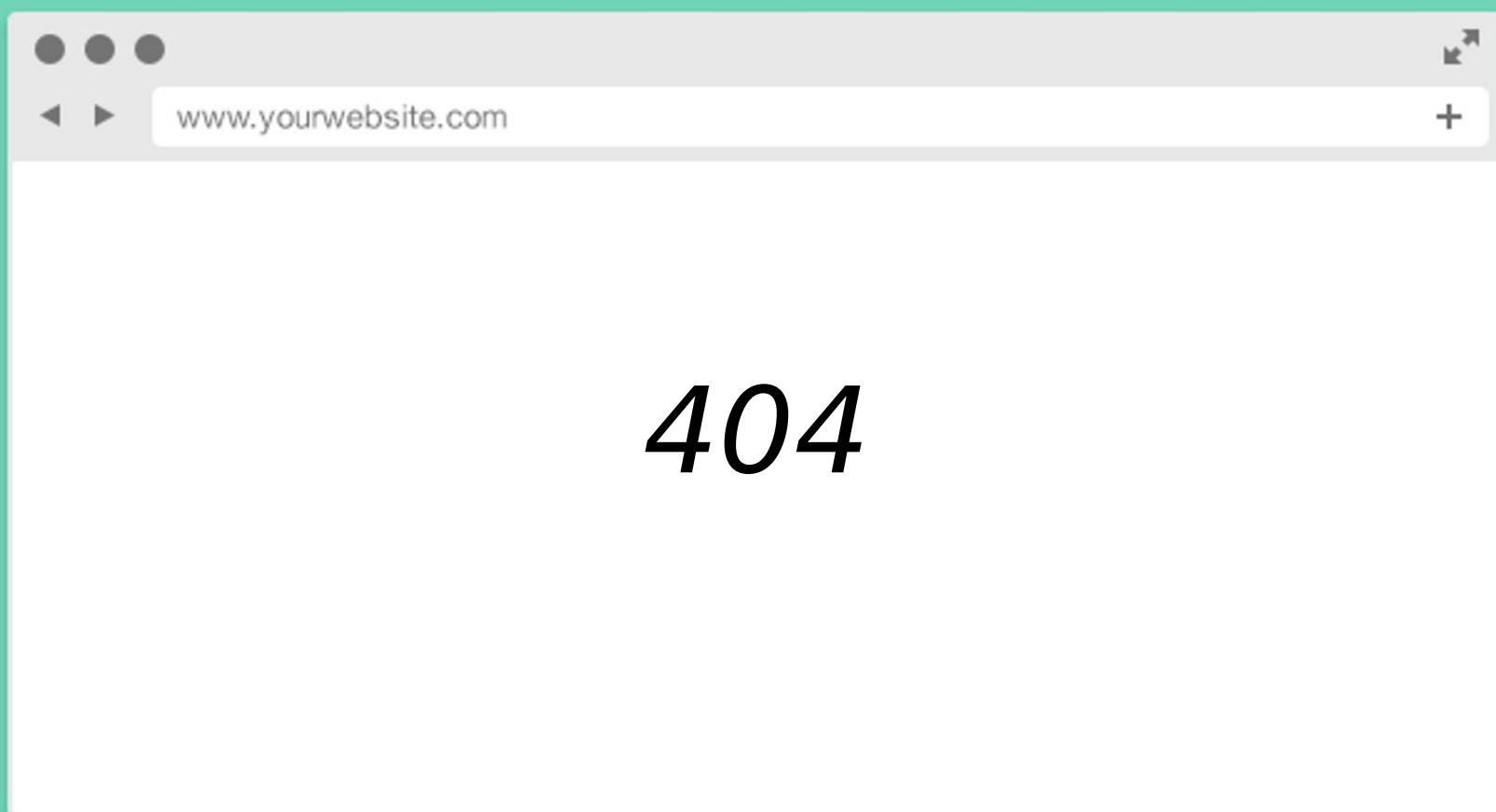


Datos

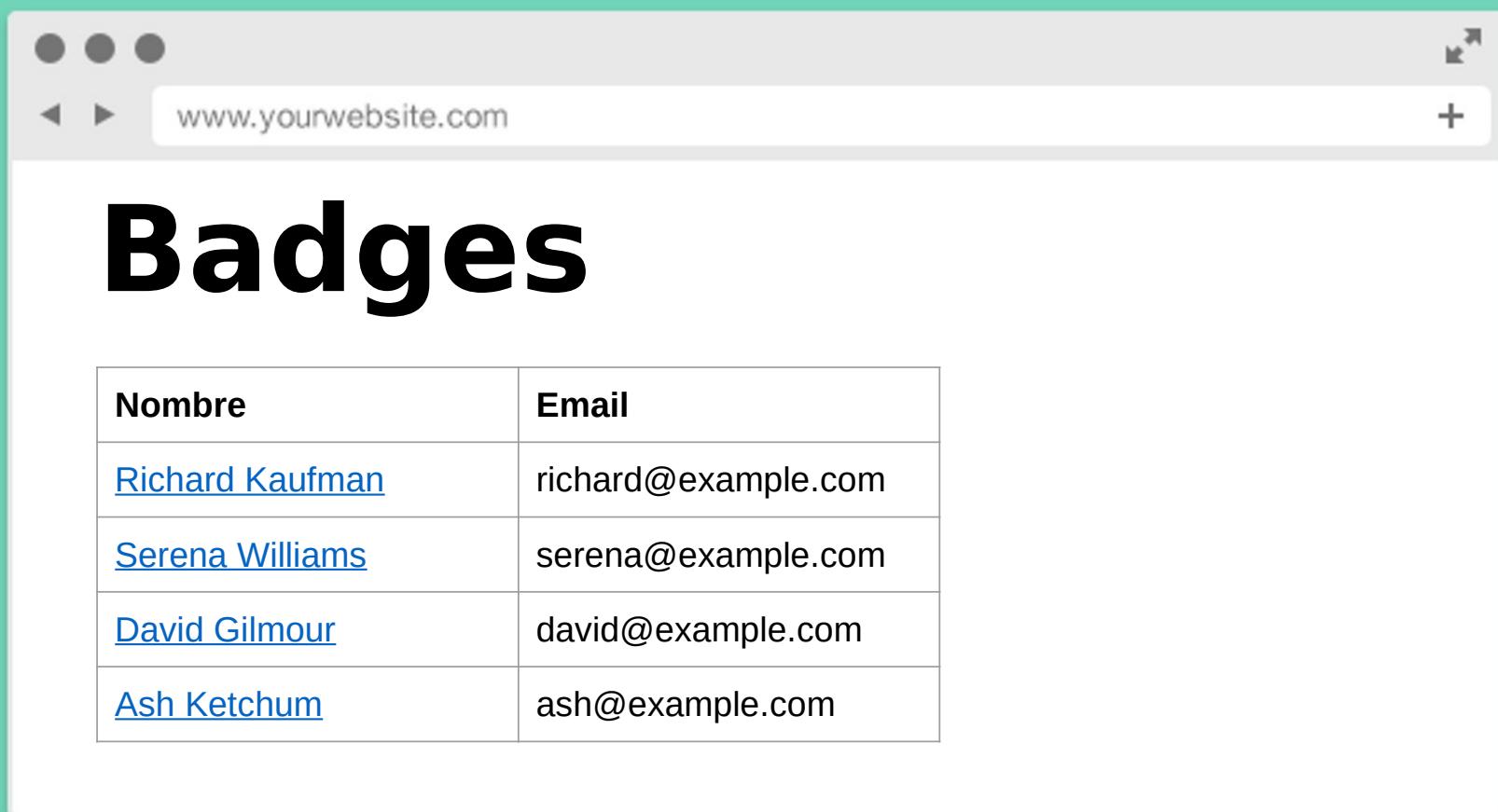
Loading



Error



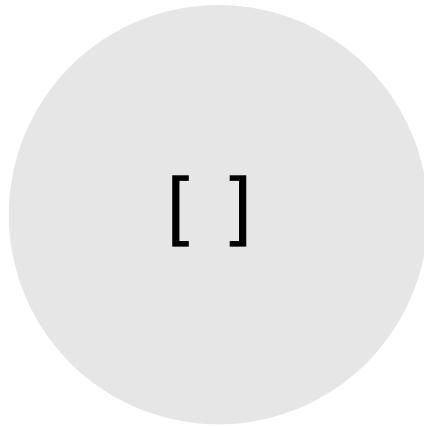
Datos



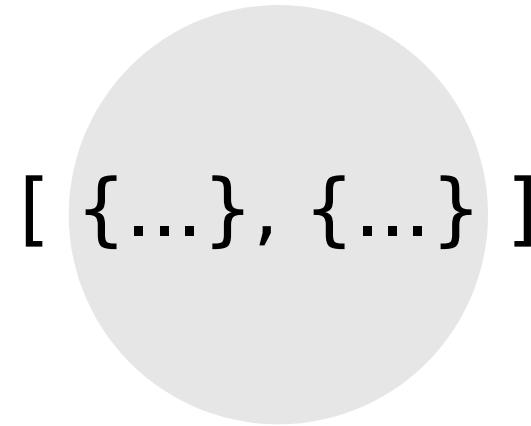
The image shows a web browser window with a light gray header bar. In the header, there are three small circular icons on the left, a back arrow, a forward arrow, and a search bar containing the text "www.yourwebsite.com". On the right side of the header are two icons: a magnifying glass and a plus sign. The main content area of the browser displays a large, bold, black title "Badges" centered on the page. Below the title is a table with five rows, each containing a name and an email address. The table has two columns: "Nombre" (Name) and "Email". The names are hyperlinked in blue text, while the emails are in black text.

Nombre	Email
Richard Kaufman	richard@example.com
Serena Williams	serena@example.com
David Gilmour	david@example.com
Ash Ketchum	ash@example.com

Datos

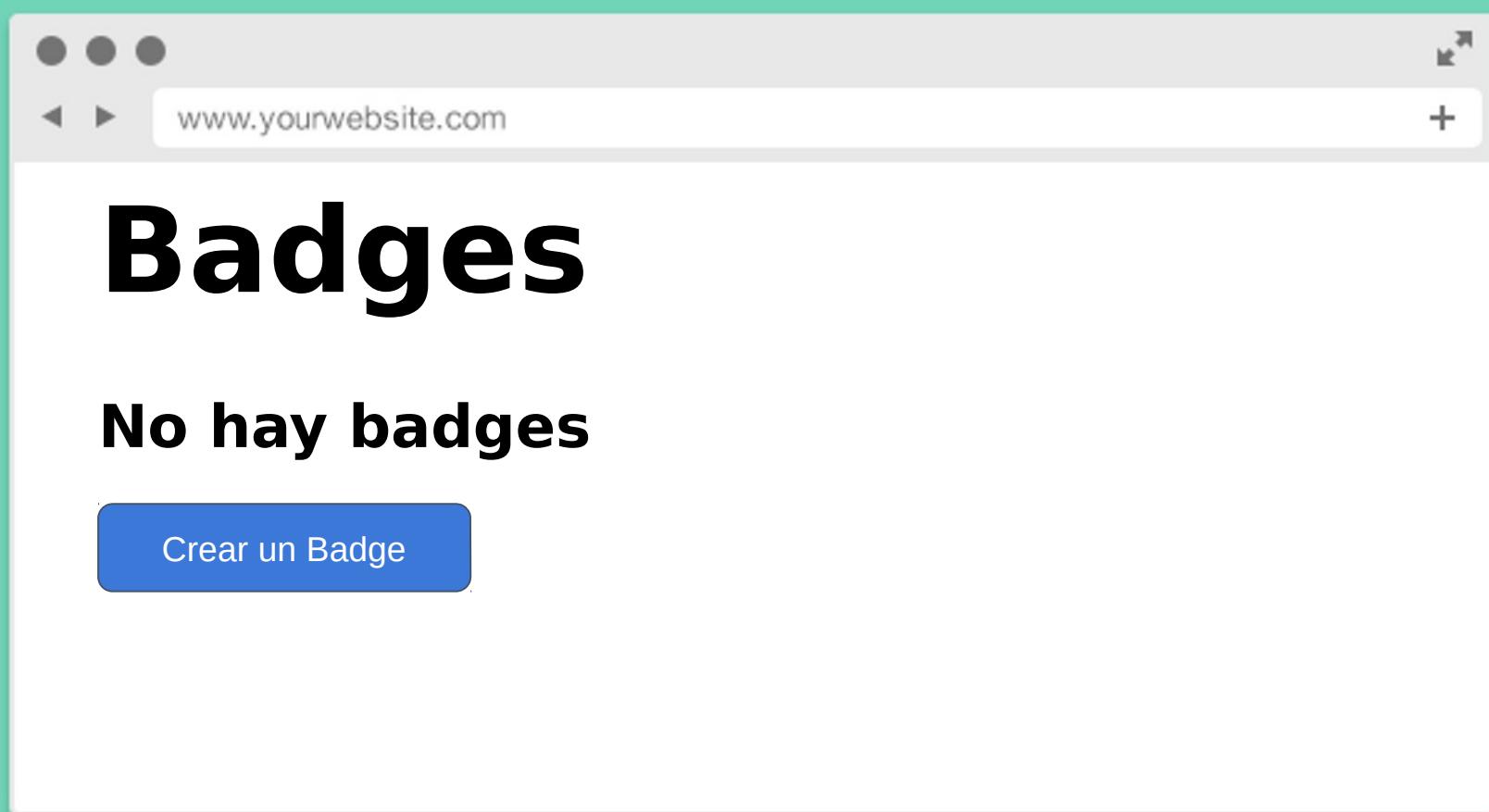


Vacio

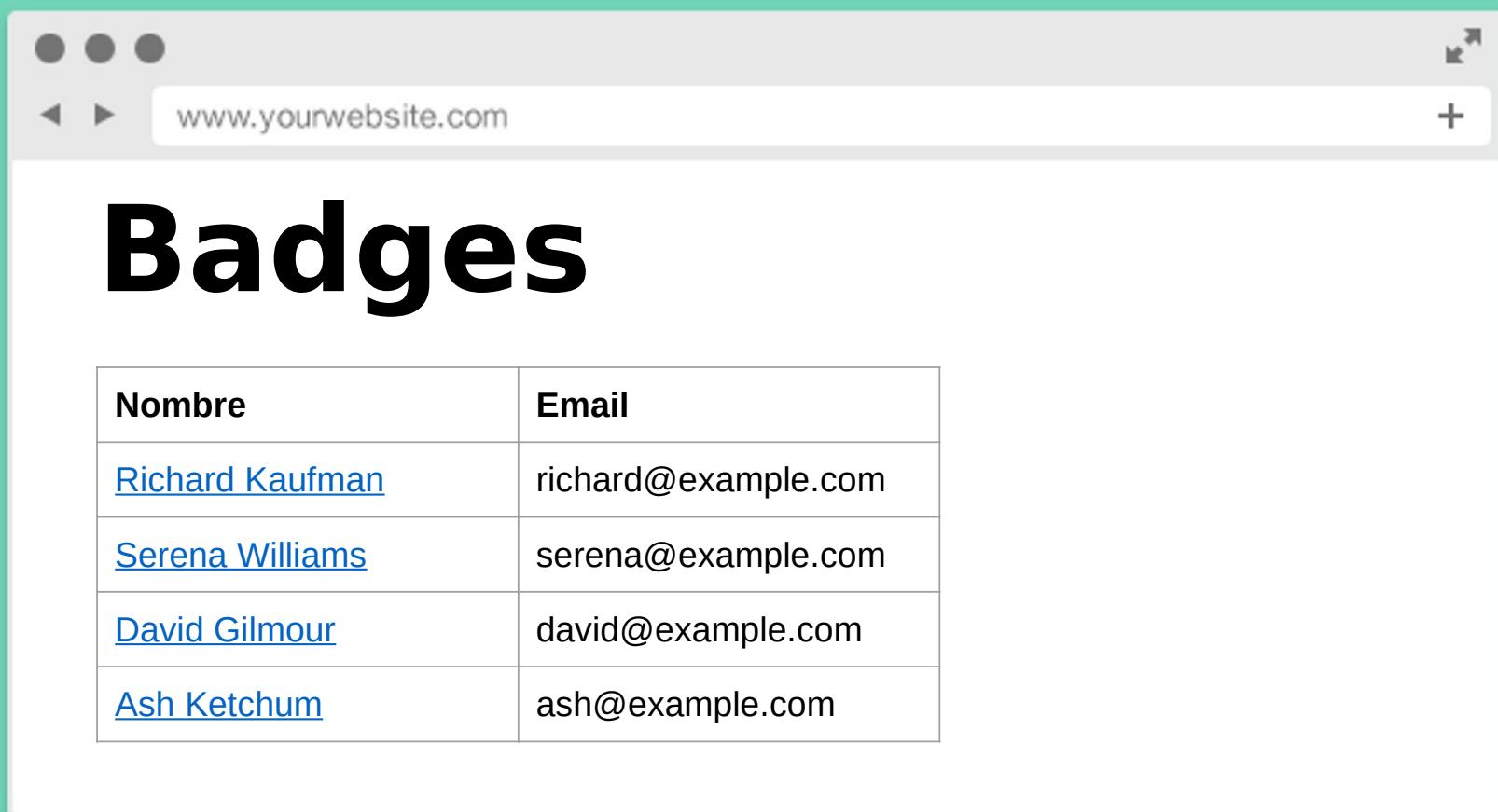


Con datos

Datos: Vacío



Datos



The image shows a web browser window with a light gray header bar. In the header, there are three small circular icons on the left, a back arrow, a forward arrow, and a search bar containing the text "www.yourwebsite.com". On the right side of the header are two icons: a magnifying glass and a plus sign. The main content area of the browser displays a large, bold, black title "Badges" centered on the page. Below the title is a table with five rows, each containing a name and an email address. The table has two columns: "Nombre" (Name) and "Email". The names are hyperlinked in blue text, while the emails are in black text.

Nombre	Email
Richard Kaufman	richard@example.com
Serena Williams	serena@example.com
David Gilmour	david@example.com
Ash Ketchum	ash@example.com

```
state = { loading: true, error: null, data: undefined };

componentDidMount() {
  this.makeRequest();
}

makeRequest = async () => {
  this.setState({ loading: true, error: null });
  try {
    const data = await api.requestData();
    this.setState({ loading: false, data });
  } catch (error) {
    this.setState({ loading: false, error });
  }
};
```

Llamadas a una API

Introducción

Mejorando la UI

Hooks

Hooks

Permite a los componentes funcionales tener características que solo las clases tiene:

useState

Para manejo de estado

useEffect

Para suscribir el componente a su ciclo de vida.

useReducer

Ejecutar un efecto basado en una acción

Custom Hooks

Usamos los hooks fundamentales para crear nuevos hooks custom. Estos hooks irán en su propia función y su nombre comenzará con la palabra ‘use’.

Mejorando la UI

Hooks