inertia»

a JavaScript framework for creating
server-driven single page apps

@sebdedeyne

About me

Sebastian De Deyne

Frontend(ish) developer at Spatie

Maintainer of Inertia's React adapter

Helping out with Inertia

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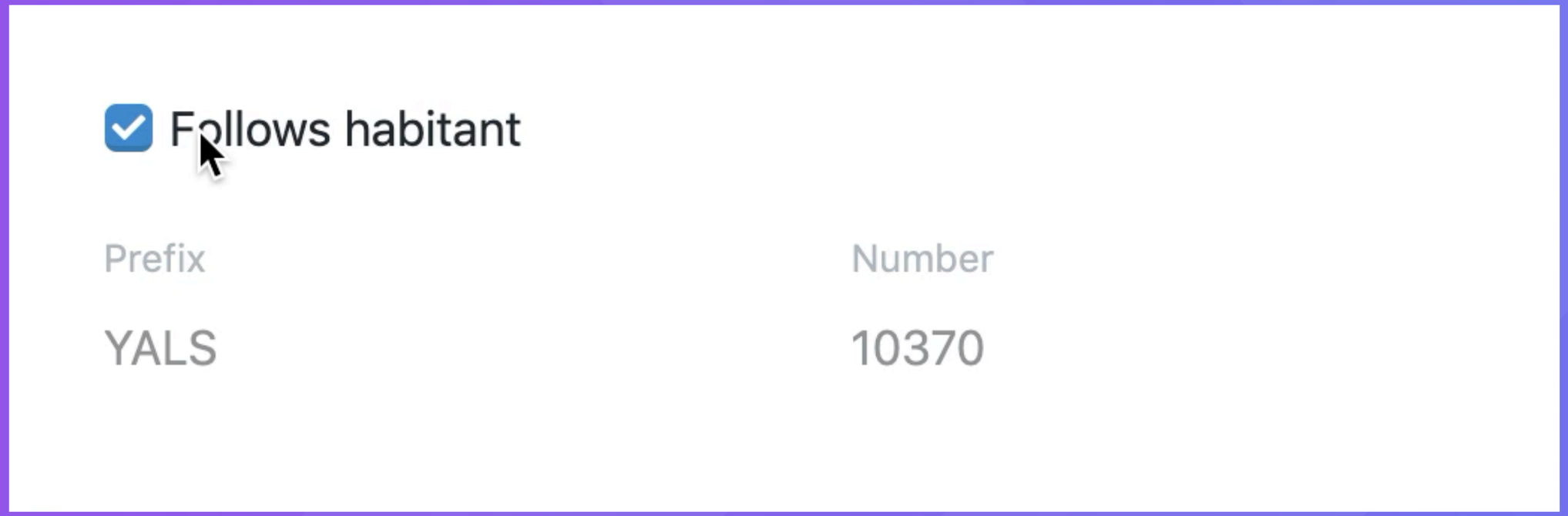
Projects I work on at Spatie

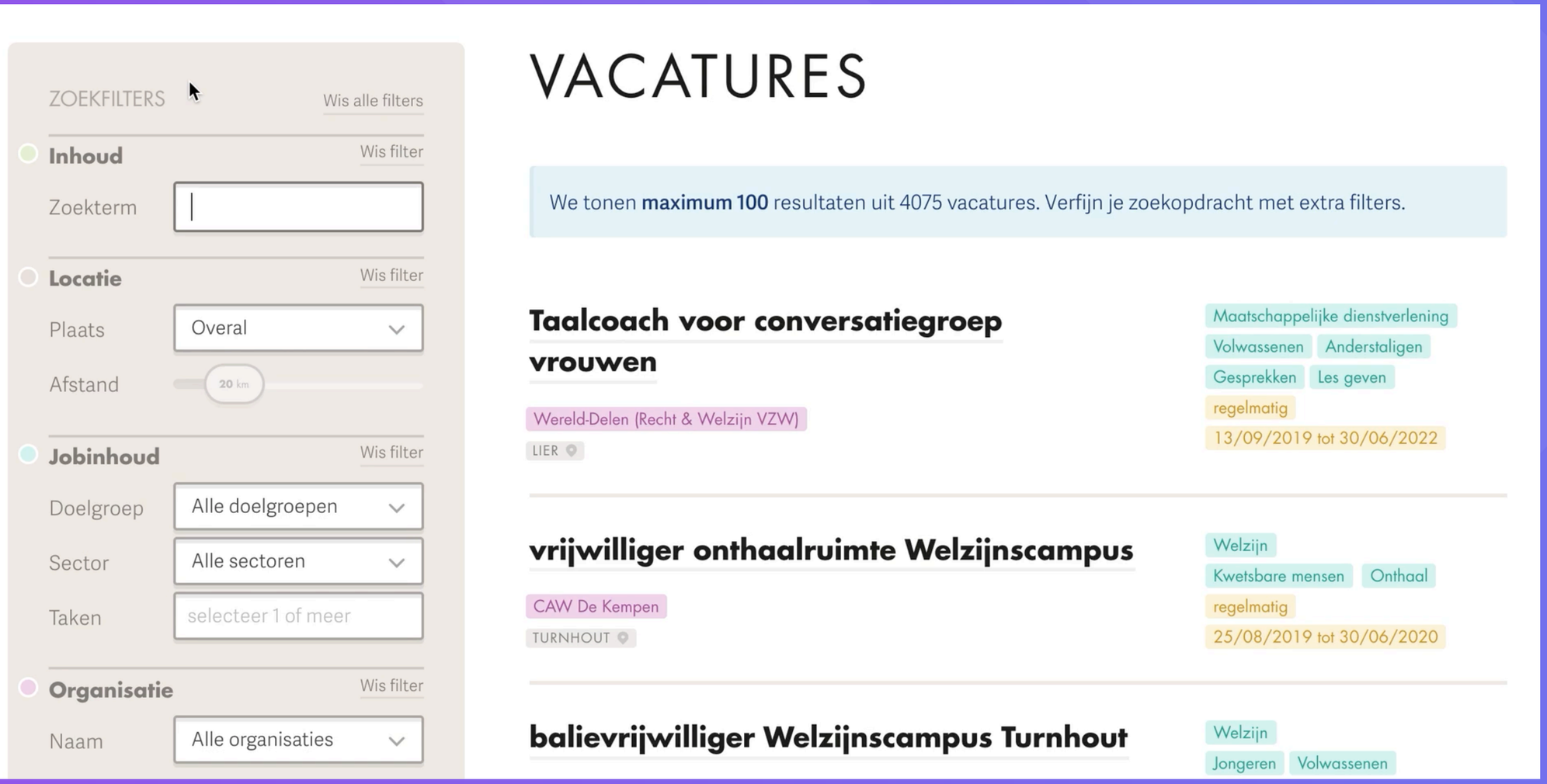
Complex business apps (form heavy)

Require authentication (no SEO concerns)

No shared public API (MVC)

Laravel + React & TypeScript


Follows habitant
Prefix
YALS
Number
10370


ZOEKFILTERS
Wis alle filters
Inhoud
Wis filter
Zoekterm
Locatie
Wis filter
Plaats
Overal
Afstand
20 km
Jobinhoud
Wis filter
Doelgroep
Alle doelgroepen
Sector
Alle sectoren
Taken
selecteer 1 of meer
Organisatie
Wis filter
Naam
Alle organisaties
VACATURES
We tonen maximum 100 resultaten uit 4075 vacatures. Verfijn je zoekopdracht met extra filters.
Taalcoach voor conversatiegroep vrouwen
Wereld-Delen (Recht & Welzijn VZW)
LIER
Maatschappelijke dienstverlening
Volwassenen
Anderstaligen
Gesprekken
Les geven
regelmatig
13/09/2019 tot 30/06/2022
vrijwilliger onthaalruimte Welzijnscampus
CAW De Kempen
TURNHOUT
Welzijn
Kwetsbare mensen
Onthaal
regelmatig
25/08/2019 tot 30/06/2020
balievrijwilliger Welzijnscampus Turnhout
Welzijn
Jongeren
Volwassenen

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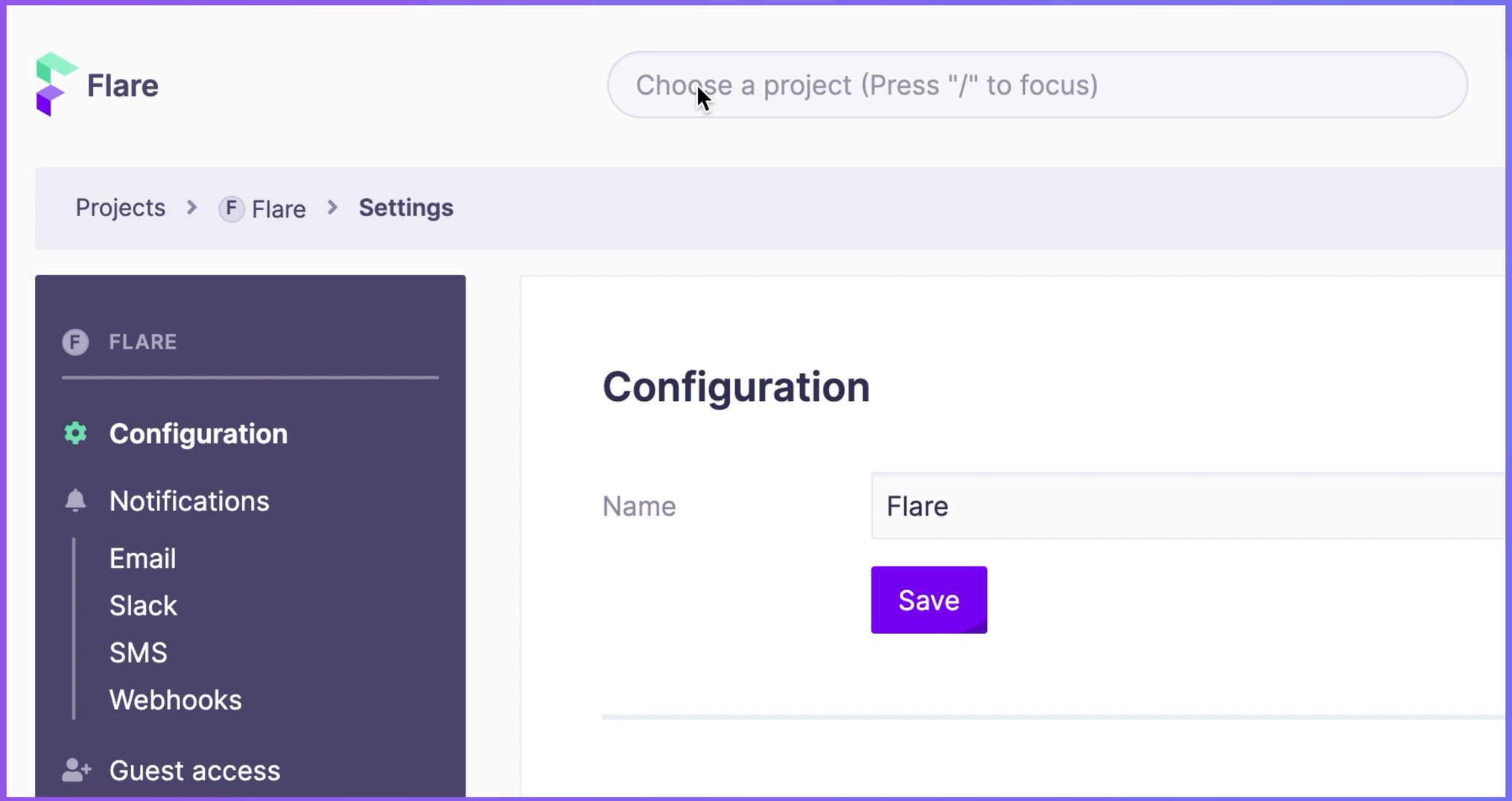
Flare
Choose a project (Press "/" to focus)
Projects
F Flare
Settings
FLARE
Configuration
Notifications
Email
Slack
SMS
Webhooks
Guest access
Configuration
Name
Flare
Save

A modern UI needs JavaScript

Server-side MVC frameworks

Laravel, Symfony, Ruby on Rails

Own templating language

Blade, Twig, ERB

Sprinkled with JavaScript

Let's just build a SPA!

SPAs are awesome!

- 😍 Build your UI entirely in JavaScript
- 😉 Consume existing APIs
- 🤷‍♂️ Offline support
- 🤷‍♂️ Possibly less server load

SPAs add client complexity

Client side routing

Data fetching

State management

Recreate browser behaviour

Wishlist

JavaScript view layer

No API

Bonus: less AJAX endpoints

Keep routing & data fetching on the server

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1. No server side templating

```
@extends('layouts.app')


@section('main')
    <h1>Users</h1>
    <users-list
        :users="{{ json_encode($users) }}"
    ></users-list>
@endsection
```

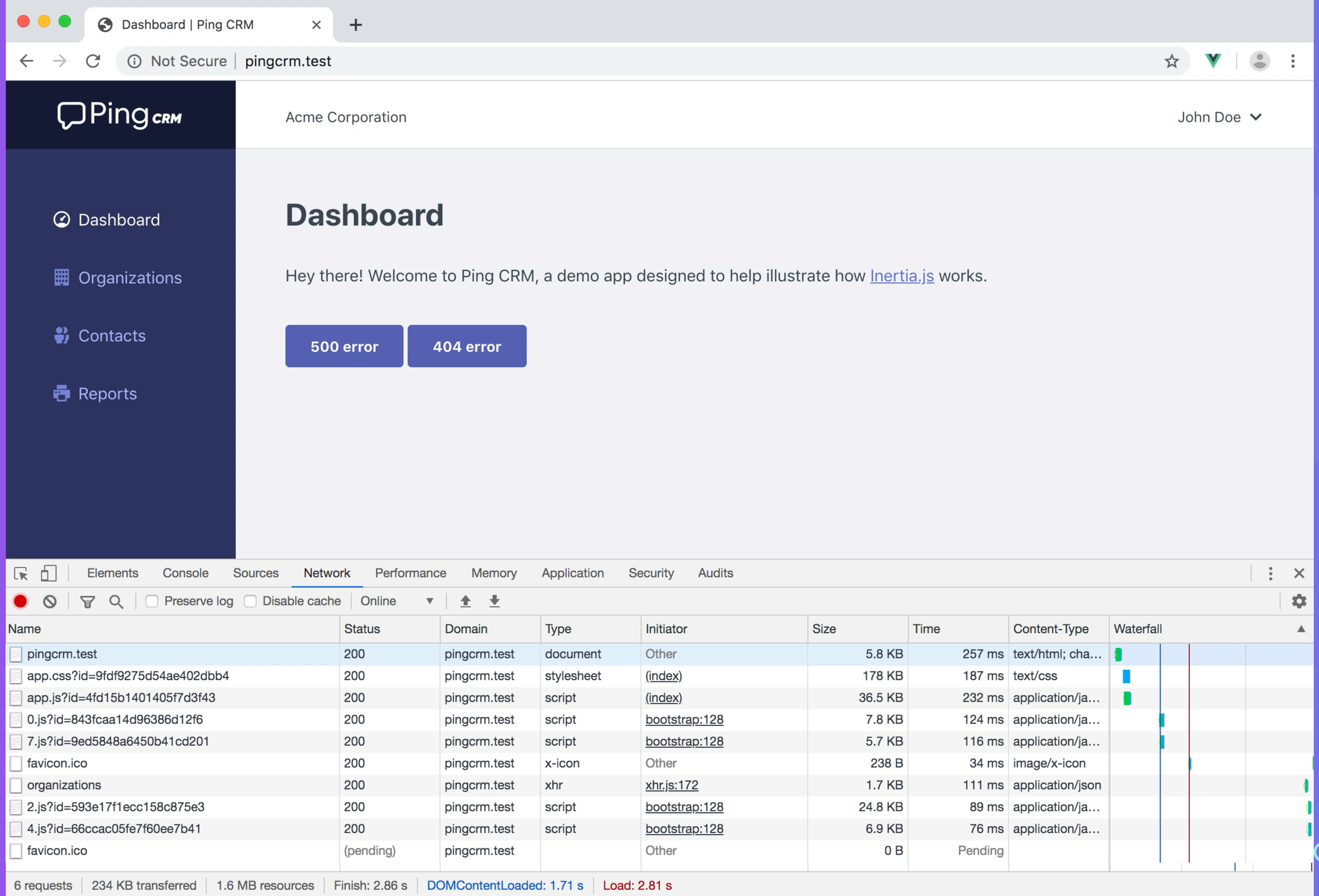
```php
class UsersController
{
    public function index()
    {
        return view('users.index', [
            'users' => User::all(),
        ]);
    }
}
```

```php
class UsersController
{
    public function index()
    {
        return inertia('Users/Index', [
            'users' => User::all(),
        ]);
    }
}
```

```
<template>
    <!-- ... -->
</template>

<script>
export default {
    props: ['users']
}
</script>
```

2. No full page refreshes


Dashboard | Ping CRM
Not Secure | pingcrm.test
Ping CRM
Acme Corporation
John Doe
Dashboard
Organizations
Contacts
Reports
Dashboard
Hey there! Welcome to Ping CRM, a demo app designed to help illustrate how Inertia.js works.
500 error
404 error
Elements
Console
Sources
Network
Performance
Memory
Application
Security
Audits
Preserve log
Disable cache
Online
Name
Status
Domain
Type
Initiator
Size
Time
Content-Type
Waterfall
pingcrm.test 200 pingcrm.test document Other 5.8 KB 257 ms text/html; cha…
app.css?id=9fdf9275d54ae402dbb4 200 pingcrm.test stylesheet (index) 178 KB 187 ms text/css
app.js?id=4fd15b1401405f7d3f43 200 pingcrm.test script (index) 36.5 KB 232 ms application/ja…
0.js?id=843fcaa14d96386d12f6 200 pingcrm.test script bootstrap:128 7.8 KB 124 ms application/ja…
7.js?id=9ed5848a6450b41cd201 200 pingcrm.test script bootstrap:128 5.7 KB 116 ms application/ja…
favicon.ico 200 pingcrm.test x-icon Other 238 B 34 ms image/x-icon
organizations 200 pingcrm.test xhr xhr.js:172 1.7 KB 111 ms application/json
2.js?id=593e17f1ecc158c875e3 200 pingcrm.test script bootstrap:128 24.8 KB 89 ms application/ja…
4.js?id=66ccac05fe7f60ee7b41 200 pingcrm.test script bootstrap:128 6.9 KB 76 ms application/ja…
favicon.ico (pending) pingcrm.test Other 0 B Pending
6 requests | 234 KB transferred | 1.6 MB resources | Finish: 2.86 s | DOMContentLoaded: 1.71 s | Load: 2.81 s

deyne

pingcrm.test	200	pingcrm.test	document	Other	5.8 KB	257 ms	text/html; cha...
app.css?id=9fdf9275d54ae402dbb4	200	pingcrm.test	stylesheet	(index)	178 KB	187 ms	text/css
app.js?id=4fd15b1401405f7d3f43	200	pingcrm.test	script	(index)	36.5 KB	232 ms	application/ja...
0.js?id=843fcaa14d96386d12f6	200	pingcrm.test	script	bootstrap:128	7.8 KB	124 ms	application/ja...
7.js?id=9ed5848a6450b41cd201	200	pingcrm.test	script	bootstrap:128	5.7 KB	116 ms	application/ja...
favicon.ico	200	pingcrm.test	x-icon	Other	238 B	34 ms	image/x-icon
organizations	200	pingcrm.test	xhr	xhr.js:172	1.7 KB	111 ms	application/jso...
2.js?id=593e17f1ecc158c875e3	200	pingcrm.test	script	bootstrap:128	24.8 KB	89 ms	application/ja...
4.js?id=66ccac05fe7f60ee7b41	200	pingcrm.test	script	bootstrap:128	6.9 KB	76 ms	application/ja...
favicon.ico	(pending)	pingcrm.test		Other	0 B	Pending	

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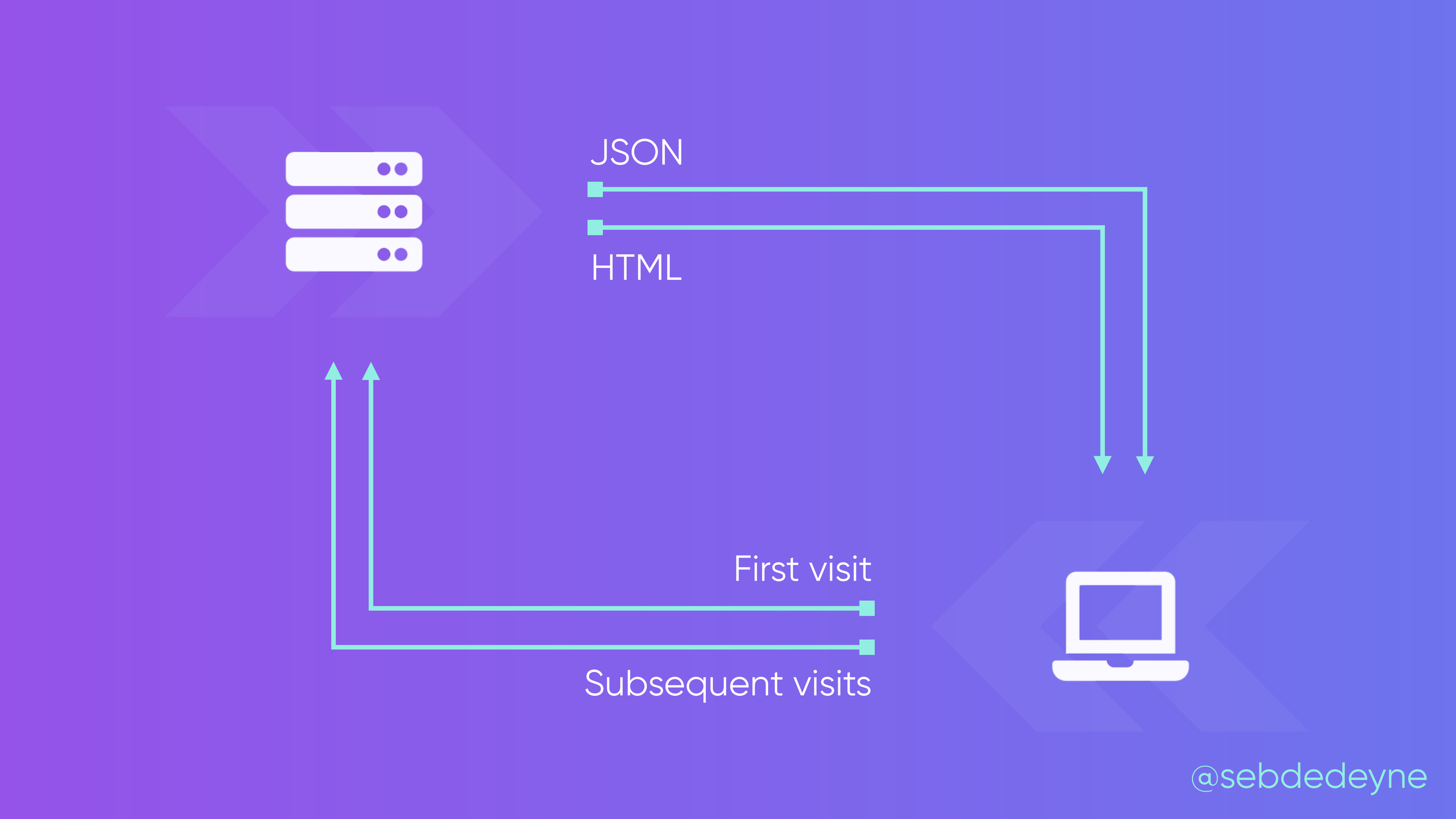
JSON
HTML
First visit
Subsequent visits

Core + collection of adapters

Inertia.js

Client side adapter

Server side adapter

Server framework adapters

Laravel

Symfony (community)

Client framework adapters

Vue.js

React

Svelte

Time for some code!

Laravel + Vue.js

Authorization

Add abilities to models or resources

Entity specific vs. general use

```php
class Post extends Model
{
    public function getPermissionsAttribute()
    {
        return [
            'update' => Auth::user()->can('edit', $this),
            'destroy' => Auth::user()->can('destroy', $this),
        ];
    }
}
```

```
<InertiaLink
    v-if="post.abilities.destroy"
    :href="`/posts/${post.id}`"
    method="delete"
>
    Move to trash
</InertiaLink>
```

```php
class User extends Model
{
    public function getPermissionsAttribute()
    {
        return [
            'post' => [
                'viewAny' => Auth::user()
                    ->can('viewAny', Post::class),
                'create' => Auth::user()
                    ->can('create', Post::class),
            ],
        ];
    }
}
```

```
<InertiaLink
    v-if="$page.auth.user.permissions.post.create"
    href="/posts/create"
>
    Add new post
</InertiaLink>
```

Routes

Use something like tightenco/ziggy

Add routes to models or resources

```php
class Post extends Model
{
    public function getLinksAttribute()
    {
        return [
            'update' => action(
                [PostsController::class, 'update'], $this
            ),
            'destroy' => action(
                [PostsController::class, 'destroy'], $this
            ),
        ];
    }
}
```

```
<InertiaLink
    v-if="post.permissions.destroy"
    :href="post.links.destroy"
    method="delete"
>
    Move to trash
</InertiaLink>
```

github.com/spatie/laravel-resource-endpoints

Features

Map controller actions to JavaScript components

Turbolinks-like navigation
Preserve page state & scroll

Partial data reloads

Remember state

Asset versioning

What makes Inertia great?

DX No context switching during development

Less AJAX endpoints

UX Snappy, no full page refreshes

Doesn't break browser behaviour

Is Inertia safe for production?

🥳 YES! 🥳

Resources

github.com/inertiajs (website & full docs coming soon!)

Inertia.js on Twitter: @inertiajs

Jonathan Reinink: @reinink

sebastiandedeyne.com

@sebdedeyne