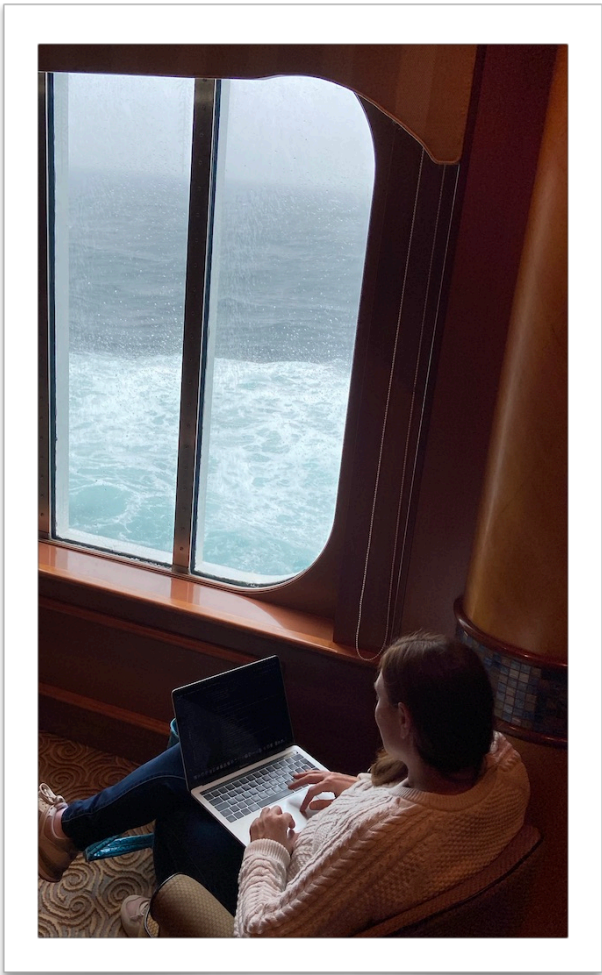


Going Static in a Dynamic World with Hasura and Nuxt.js



NUXTJS



Debbie O'Brien



Head of Learning and Developer Advocate
at NuxtJS



Writer @Ultimate Courses



Teacher @Vue School



Experts



Debbie O'Brien



@debs_obrien

What I will cover

Nuxt.js

How Static sites work

Hasura and GraphQL

Build hooks and trigger with Netlify deployment

Nuxt.js Full Static



Nuxt

The Intuitive **Vue** Framework

Nuxt Benefits

"file-based" routing

Automatic Code splitting of routes

Prefetching

Automatic component imports

more than 100 modules

Nuxt Benefits

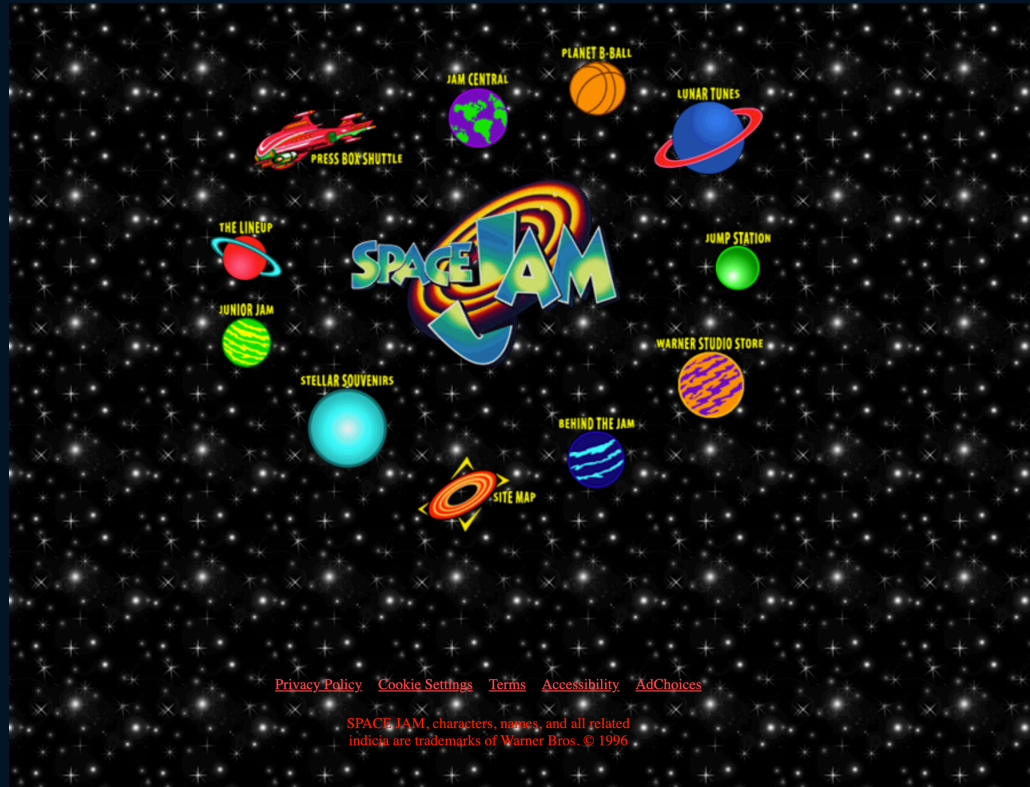
SSR

SPA

PWA

Static Sites

Static sites of the 90's



Why Static?

No server: cheaper, safer

Better offline support

Better performance

Reduces Carbon footprint

Nuxt Full Static

You don't have to **expose** your **API** to the public

Decide when to publish **new content** from your API by **re-generating** your website

Fully static is much **faster**

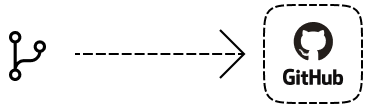
API calls have latency - always takes longer

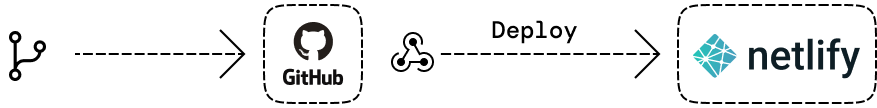
Payload files are **cached** and **offline** support with PWA module

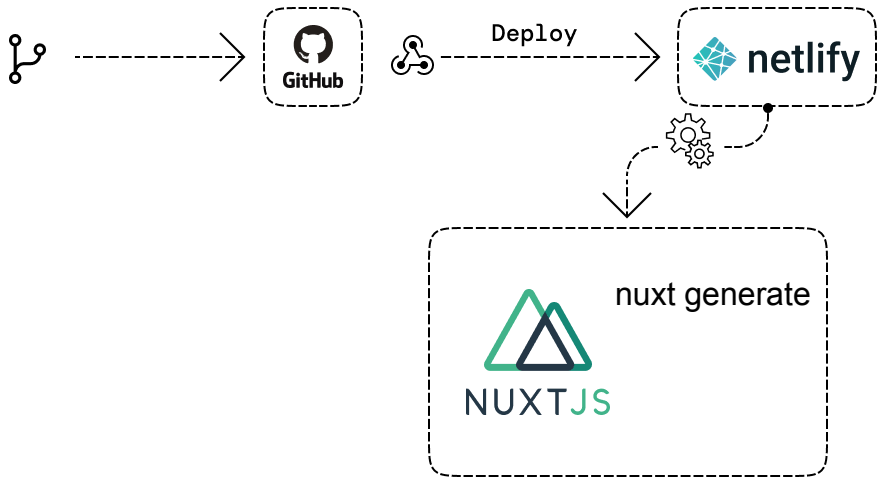
Full Static

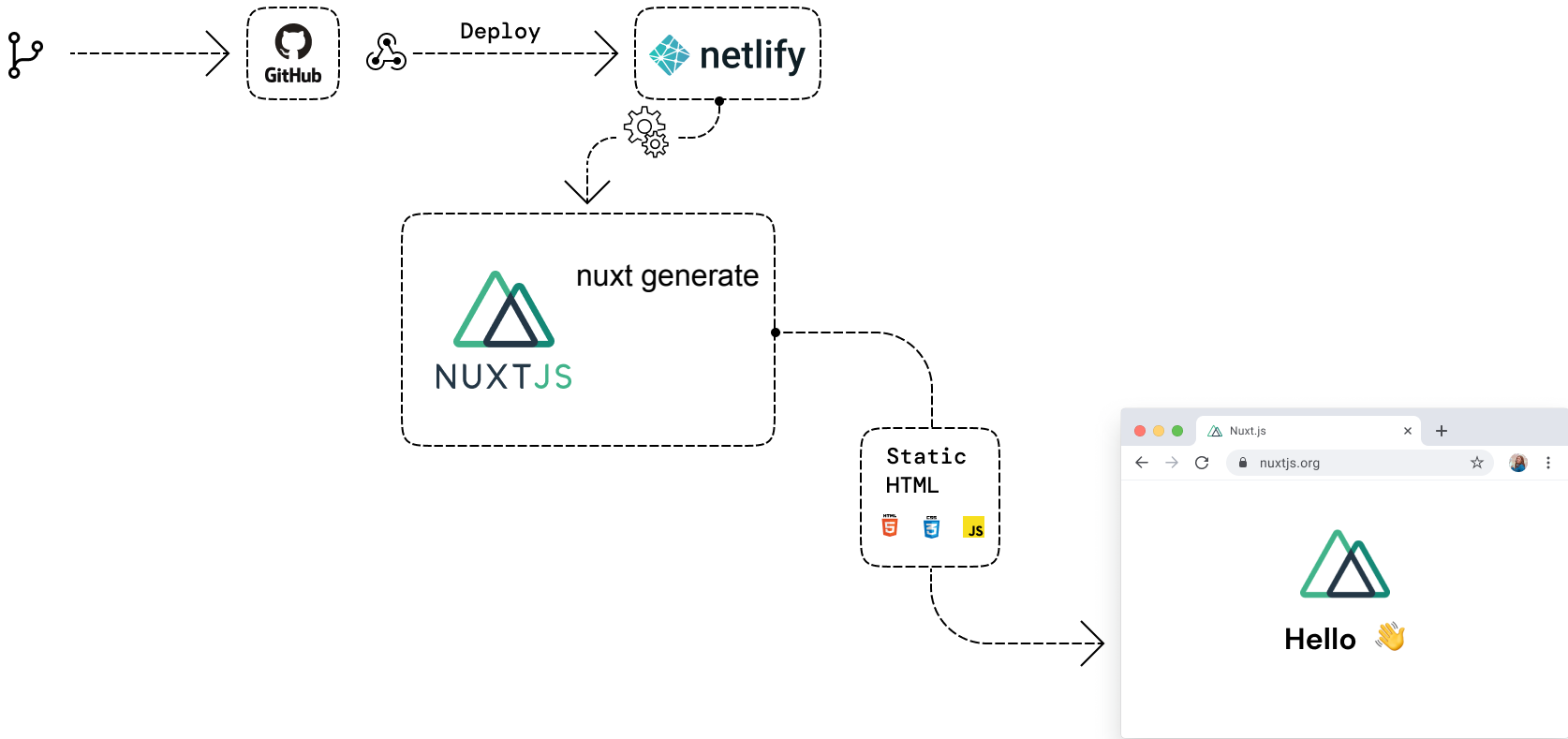
target: 'static'

nuxt generate









What
about
Data?



CONFERENCES

All

Speaker

Lightening Talk

MC

Attendee

	18 September 2020	Gotopia Europe <small>Virtual, Virtual</small> Going Static in a Dynamic world with Hasura and Nuxt.js	Speaker
	17 September 2020	Vue Global Conf <small>Virtual, Virtual</small> Nuxt as a headless CMS	Speaker
	15 September 2020	CityJS Conf <small>Virtual, United Kingdom</small> Jamstack	Speaker
	14 September 2020	CityJS Conf <small>Virtual, United Kingdom</small> What's new in Nuxt	Speaker
	10	Virtual Developers Conference <small>Virtual, Mauritius</small>	Speaker



Get realtime GraphQL APIs *instantly*

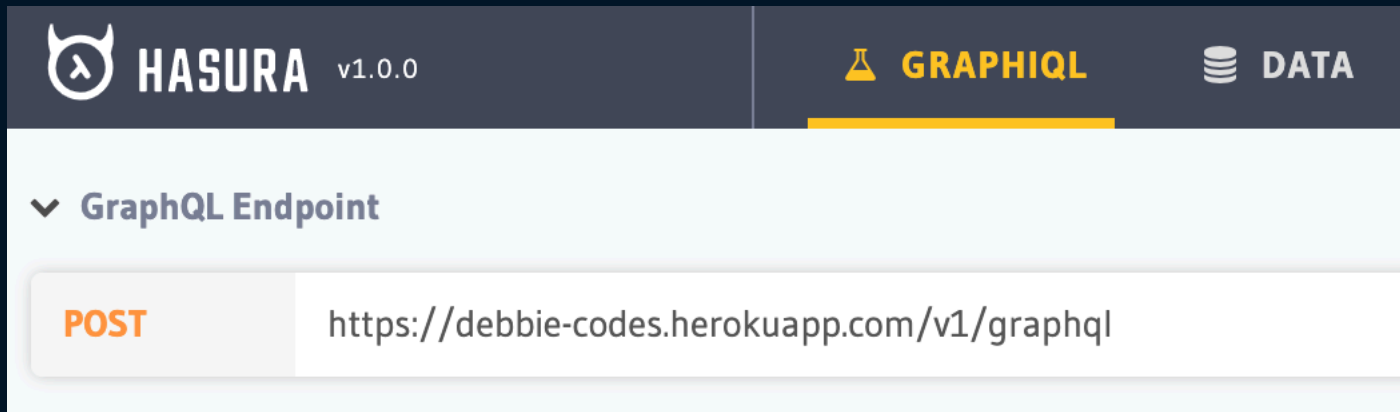
Hasura is an [open source](#) engine that connects to your databases & microservices and auto-generates a production-ready GraphQL backend.

Add a new table

The screenshot shows the Hasura GraphQL console interface for adding a new table. The top navigation bar includes the Hasura logo and version (v1.0.0), and menu items for GRAPHIQL, DATA (highlighted), REMOTE SCHEMAS, and EVENTS. A security warning 'SECURE YOUR ENDPOINT' is visible on the right. The left sidebar shows the 'public' schema selected, a search bar for tables/views/functions, and a list of existing tables: 'conferences' and 'workshops'. An 'Add Table' button is present. The main content area is titled 'Add a new table' and contains the following form fields:

- Table Name:** A text input field containing 'table_name'.
- Columns:** A section with three input fields: 'column_name', 'column_type' (with a dropdown arrow), and 'default_value'. To the right are two checkboxes: 'Nullable' and 'Unique', both currently unchecked. Below these is a '+ Frequently used columns' button.
- Primary Key:** A section with a dropdown menu currently showing '-- select --'.

GraphQL Endpoint



The screenshot shows the Hasura v1.0.0 interface. At the top, there are three navigation tabs: 'HASURA' (with a cat icon), 'GRAPHIQL' (with a flask icon and highlighted in yellow), and 'DATA' (with a database icon). Below the tabs, a dropdown menu is open, showing 'GraphQL Endpoint'. Under this menu, there is a single entry for a 'POST' method with the URL 'https://debbie-codes.herokuapp.com/v1/graphql'.

Method	Endpoint
POST	https://debbie-codes.herokuapp.com/v1/graphql

GraphQL Playground

Explorer X GraphQL ▶ Prettify History Analyze Explorer Voyage ↗

query MyQuery

- ▶ conferences
- ▶ conferences_aggregate
- ▶ conferences_by_pk
- ▼ workshops
 - distinct_on:
 - limit:
 - offset:
 - ▶ order_by:
 - ▶ where:
 - alt
 - blogUrl
 - date
 - duration
 - id
 - img
 - name
 - place
 - slidesUrl
 - title
 - topic
 - url

```
1 {
2   workshops {
3     alt
4     duration
5     id
6     img
7     name
8     place
9     title
10    topic
11    date
12  }
13 }
14
```

QUERY VARIABLES

1

```
{
  "data": {
    "workshops": [
      {
        "alt": "Evan You",
        "duration": "1 day",
        "id": "798f9f63-51de-4325-8f40-50f53a26a65c",
        "img": "evan_you_s7n7nc",
        "name": "Evan You",
        "place": "Vue Toronto",
        "title": "Deep Dive with Vue 3.0",
        "topic": "Vue 3",
        "date": "2019-11-09"
      },
      {
        "alt": "Rolf Haug & Alex Kyriakidis",
        "duration": "1 day",
        "id": "c480c841-1da9-49a3-a489-99ad9da06738",
        "img": "rolf-alex_rbnn1z.png",
        "name": "Rolf Haug & Alex Kyriakidis",
        "place": "Vue London",
        "title": "Scaling applications with Vuex",
        "topic": "Vuex",
        "date": "2019-10-04"
      }
    ]
  }
}
```

Hasura and Nuxt

Install and register http

```
npm install @nuxt/http
```

```
modules: [  
  '@nuxt/http'  
],
```


Create a plugin

```
export default function ({ $http, env }, inject) {  
  const $hasura = $http.create({  
    prefixUrl: env.API_HASURA_URL  
  })  
  
  inject('hasura', $hasura.$post.bind($hasura, ''))  
}
```

Register the Plugin

```
plugins: [  
  '@plugins/hasura.js'  
],
```

Import

```
import gql from 'graphql-tag'
```

```
import { print } from 'graphql/language/printer'
```

Add your Query

```
const QUERY = gql`  
  query {  
    conferences(order_by: { date: desc }) {  
      name  
      place  
      date  
    }  
  }  
`
```

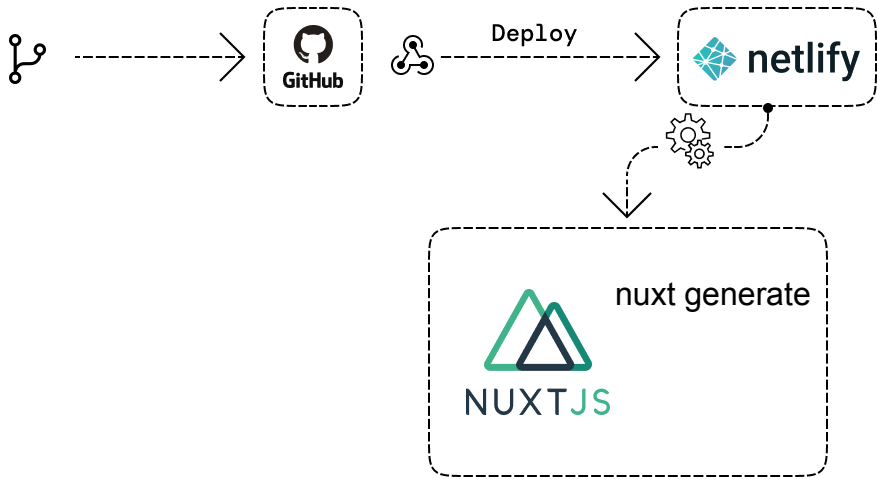
AsyncData

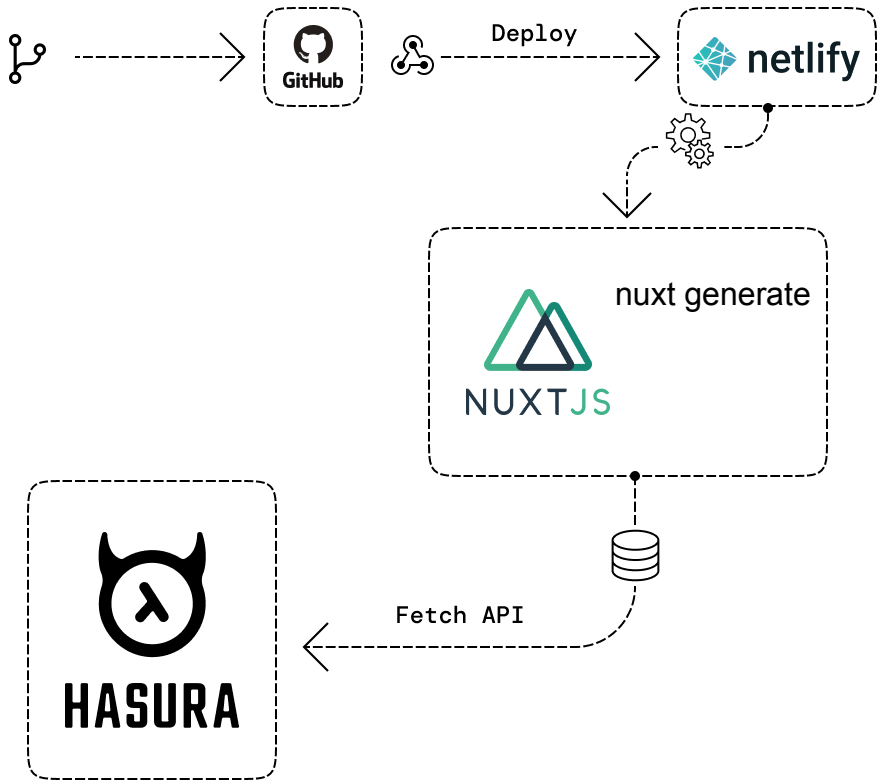
```
async asyncData({ app }) {  
  const { data } = await app.$hasura({  
    query: print(QUERY)  
  })  
  return {  
    conferences: data.conferences  
  }  
},
```

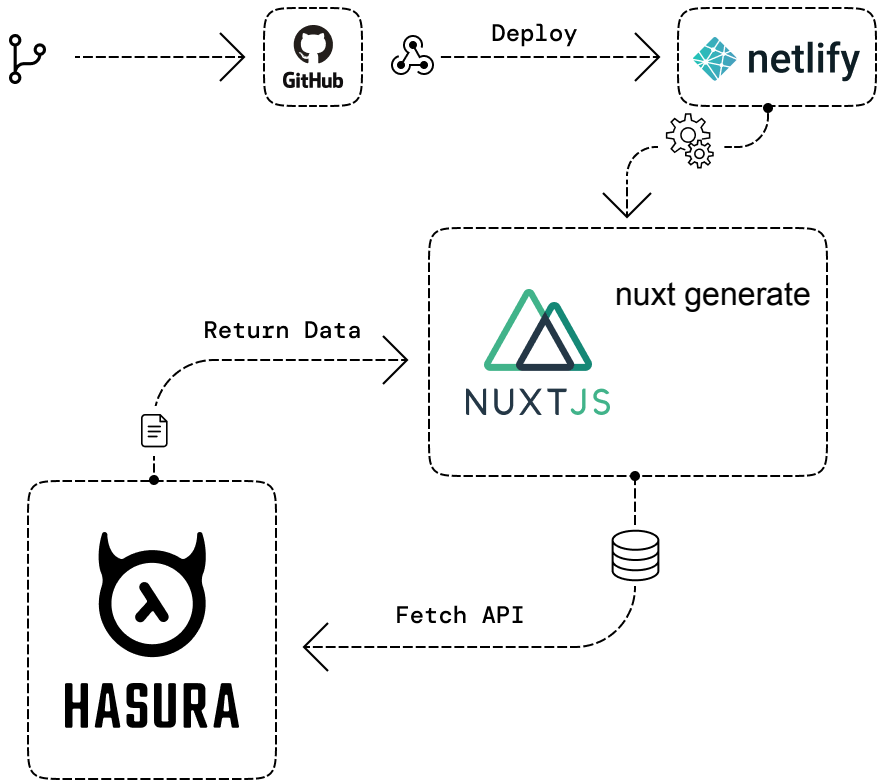
Use in your template

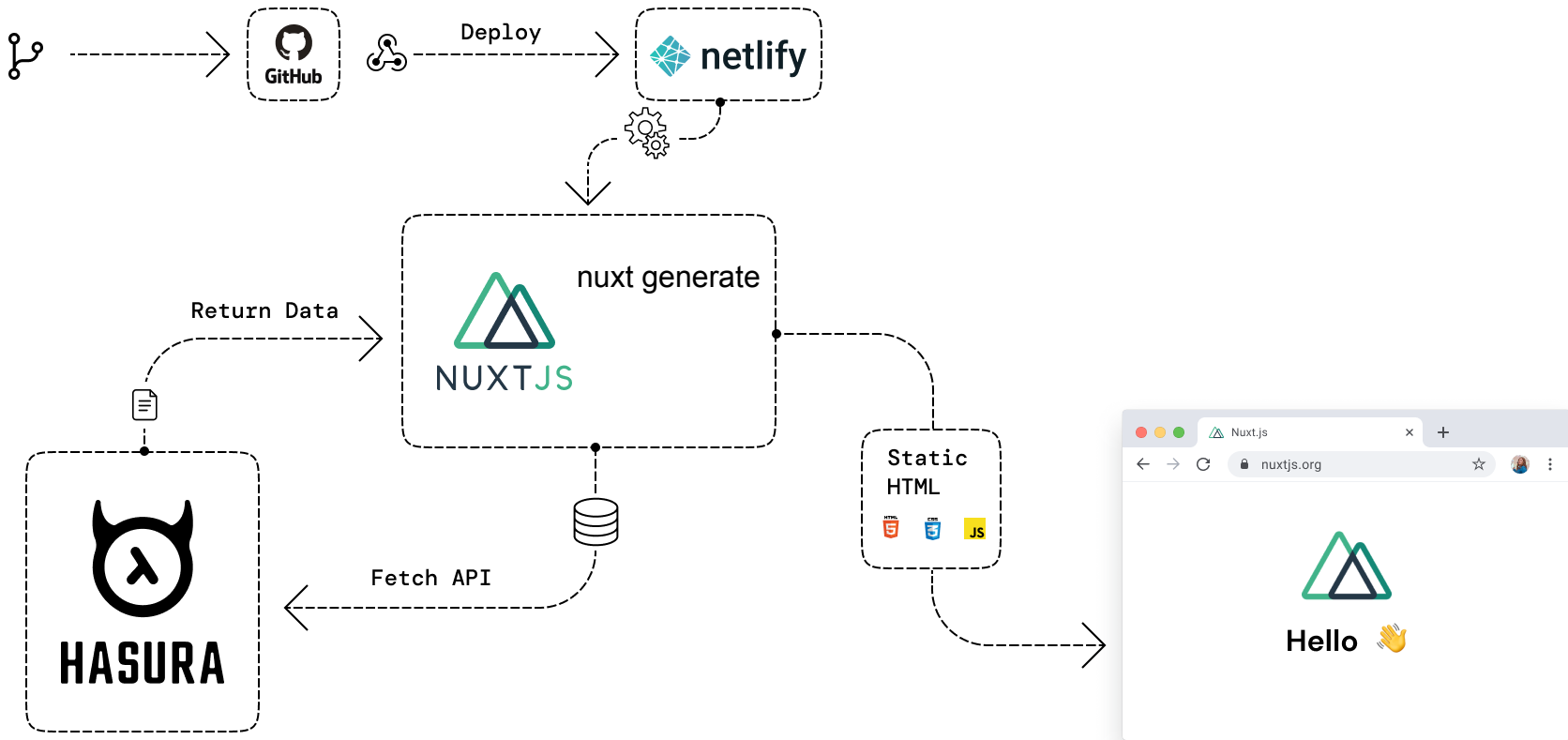
```
<ul v-for="conference in conferences">  
  <li> {{ conference.name }}</li>  
</ul>
```







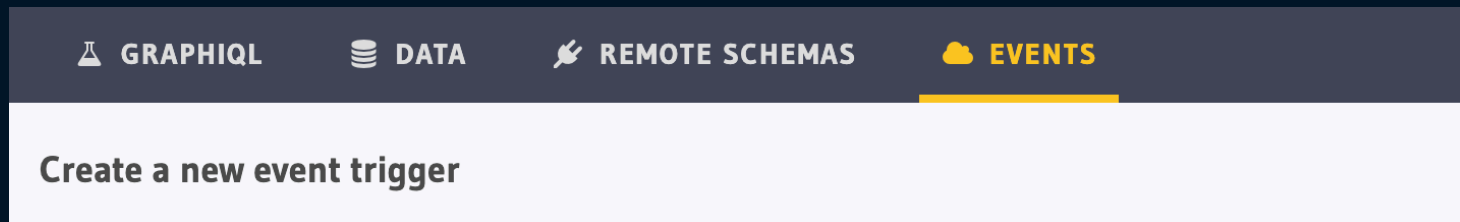




What
about
Data
Changing?



Generate on Update



Create your trigger

trigger_name

Schema/Table ?

public Select table

Trigger Operations ?

Insert Update Delete Via console ? [\(Know more\)](#)

Webhook URL ?

URL ▾ http://httpbin.org/post

Netlify Build Hooks

Build hooks

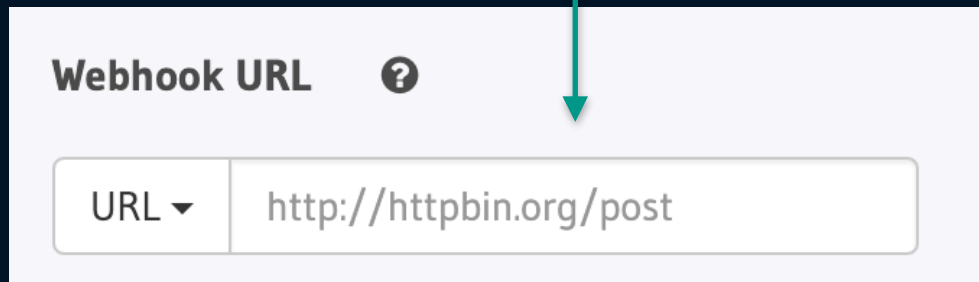
Build hooks give you a unique URL you can use to trigger a build.

Branch to build

[Learn more about build hooks in the docs ↗](#)

Add the URL to Hasura


`https://api.netlify.com/build_hooks/5e4c190828324653346571ad`




Webhook URL ?

URL ▼

Browse, Modify, Delete

 **HASURA** v1.0.0

GRAPHIQL **DATA** REMOTE SCHEMAS EVENTS SECURE YOUR ENDPOINT 

Schema: public

Tables (2) Add Table

- conferences
- workshops**

SQL

You are here: [Data](#) > [Schema](#) > [public](#) > [workshops](#) > Browse Rows





















workshops

Browse Rows (9) Insert Row Modify Relationships Permissions

Filter Sort

-- column -- -- op -- -- value -- -- column -- --

Run query

	◀ id	◀ name	◀ title
   	0516ee9c-1fb7-44b1-b732-25aaed29ff92	Marion Schleifer	Modern and Serverless Web Applications with GraphQL
   	c480c841-1da9-49a3-a489-99ad9da06738	Rolf Haug & Alex Kyriakidis	Scaling applications with Vuex
   	a583ac9b-386a-4a0e-8984-538fea258e15	Swizec Teller	Build and launch a modern JAMstack web app with React, Gra
   	798f9f63-51de-4325-8f40-50f53a26a65c	Evan You	Deep Dive with Vue 3.0
   	16679bef-c684-4c84-b4c6-3a0af720a18b	Harry Roberts	Frontend Performance Building Faster Websites



HASURA

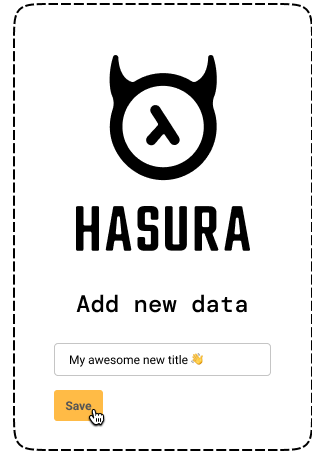
Add new data

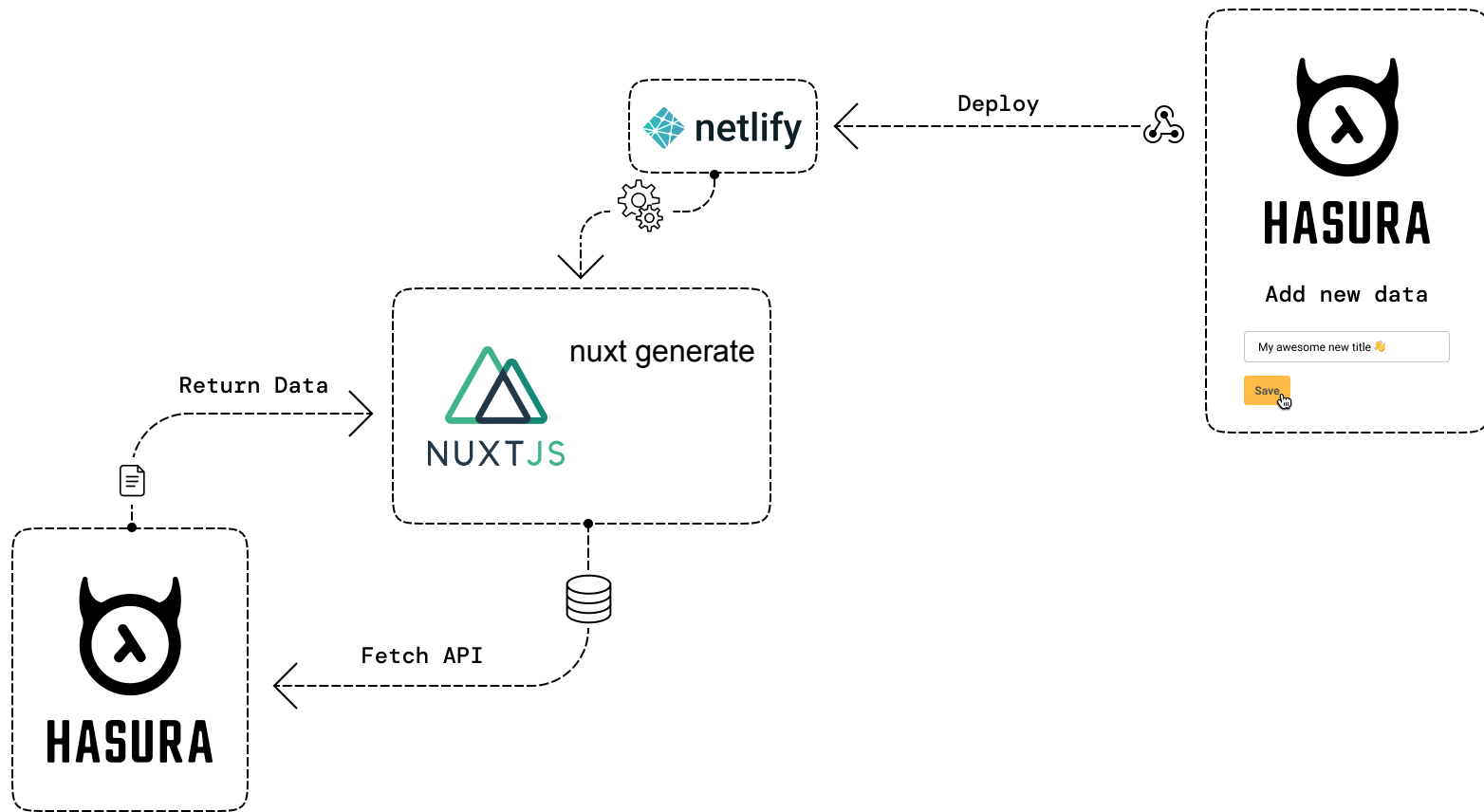
My awesome new title 🍌

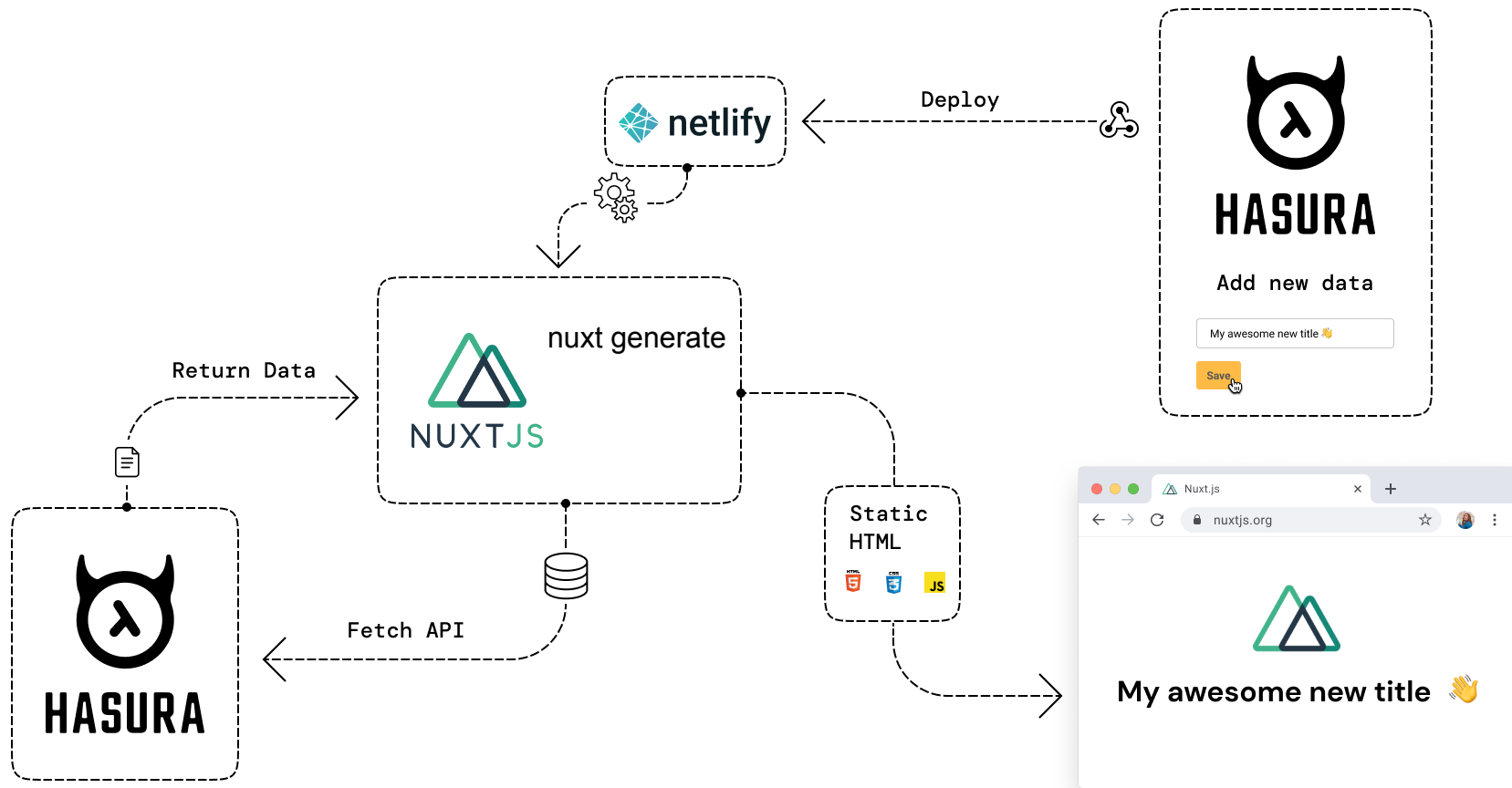
Save



Deploy







Nuxt Static Module

Call the `payload` on page change

Crawler for dynamic pages

Live Preview

Build is cached

Only Generate on Content Change

Lightening
fast.
Just Like me



Why Static?

No server: cheaper, safer

Better offline support

Better performance

Reduces Carbon footprint

Think Static be Dynamic



Are you
NUXT?

Thank you

Debbie O'Brien



**Head of Learning and
Developer Advocate**

Open Source Contributor

