

React JS and Drupal 8

Writing content rich JavaScript/REST web apps.

Drupal GovCon, Washington DC

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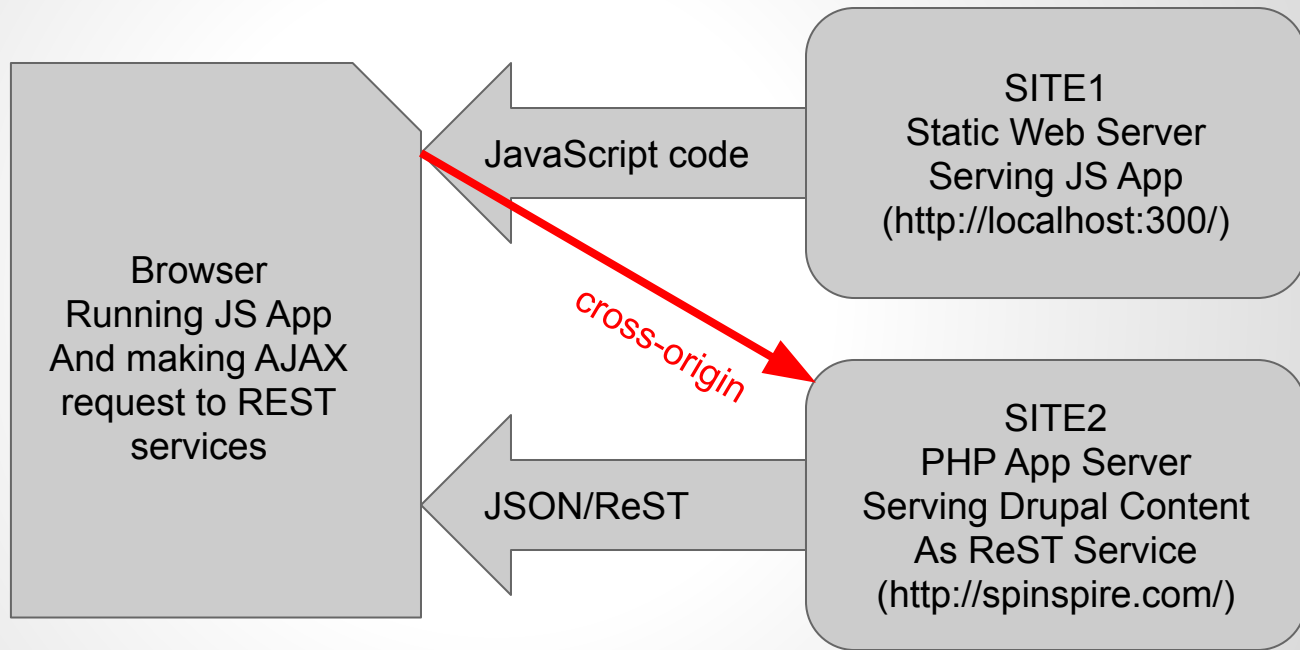
Source code: <https://bitbucket.org/spinspire/d8-react-v2>

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Motivation

- **Drupal is your favorite CMS**
- **AJAX apps and SPA's are cool!**
- **ReactJS is the HOTTEST thing (Or is it vue.js now?)**
- **REST support: D7 contrib, D8 core**
- **D8's Content + React's UX == Awesome!**

Architecture



Setup

- Get the source code from <https://bitbucket.org/spinspire/d8-react-v2/>
- Study the custom module in 'drupal/headless'
- Study the ReactJS app in 'src'
- Follow the full instructions in README.md.

RESTful services in Drupal 8

- GET http://localhost/node/1?_format=json
- POST <http://localhost/entity/node>
- PATCH <http://localhost/node/1>
- DELETE <http://localhost/node/1>
- Create views and add "REST export" display.
- GET <http://localhost/node/rest>
- And much more!!!

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- SpinSpire is a Drupal focused company.
- All developers located in Jacksonville, Florida.
- Contributed modules: [popular tags](#) & [prlp](#).
- Clients such as Nike, Florida Blue and Federal Govt.
- Find us on the web, or visit <https://spinspire.com/>



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Drupal 8 - CSRF and Authentication

- JavaScript code should get CRSF token from `/rest/session/token`
- Include token as X-CSRF-Token in all requests
- JS app deployed to a subdomain of D8
- So that authentication cookie can be shared
- Configure Drupal REST to use cookie auth

Drupal 8 - CORS

Configure `cors.config` in `services.yml`.

```
cors.config:
```

```
  enabled: true
```

```
  allowedHeaders: ['x-csrf-token', 'content-type']
```

```
  allowedMethods: ['GET', 'POST', 'PATCH', 'DELETE']
```

```
  allowedOrigins: ['*']
```

```
  supportsCredentials: true
```

Recipe: React JS App in Drupal 8

- Use this demo app as the starting point. Run it from <http://localhost:3000/>
- Run a Drupal site anywhere with the provided config.
- Develop and test React app in standalone mode, using "npm run dev".
- Compile to dist with "npm run build"

ReactJS App Development

- Install npm.
- Follow a productive dev workflow using webpack-dev-server.
- Implement basic ReactJS components.
- Implement basic state management - App is the only stateful component. All others are pure functional.
- Use `axios` for AJAX requests. Configure it to include X-CSRF-Header and credentials cookie.

For More Information

- Screencast Video: Coming soon!
- Source code:
<https://bitbucket.org/spinspire/d8-react-v2>
- Email: jitesh@spinspire.com
- Follow [@spinspire_com](https://twitter.com/spinspire_com)
- Visit spinspire.com
- Other video screencasts youtube.com/spinspire