



DRUPALCON

ASIA

2016



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A Brand New Website / App in AngulaJS | Ionic : Reusing your old site

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Angular JS

Ionic

<http://goo.gl/ACi2tP>

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Mobile App or A Brand New Website in AngularJS

DECOUPLING DRUPAL REALLY?

What it means to me?

Better or Mess?

Really can we save 70% of our budget and still
get an amazingly fast CMS driven website?

AND
MORE
FUN

So what is this content as a service and decoupled CMS?

*You can power multiple websites with one backend system. **Easy to maintain.***

Reasons to go Decoupled

Theming in Drupal is tedious and tricky

More natural design process

UI and backend are independent

Use advanced tools like grunt, gulp, bower etc

No CMS theming

Ease for themers

For Themers

Mr Themer, make a request to the service `$http('/posts.json')` in JavaScript in order to obtain the data. You can write your own CSS and HTML from scratch.

AngularJS: **MVC** which elegantly separates controller, business, and model logic in your application.

IONIC

Can power

your mobile apps! *and website.*

Clean Markup

```
<div class="row" >
  <div class="col-sm-3" ng-repeat="product in products">
    <div class="panel panel-default text-center">
      <div class="panel-heading">
        <strong>{{product.node.title}}</strong>
      </div>
      <div class="panel-body">
        <h3 class="panel-title price">${{product.node.amount}}
          <span class="price-cents"></span>
          <span class="price-month">mo.</span>
        </h3>
      </div>
      <ul class="list-group">
        <li class="list-group-item">{{product.node.projects}} Projects</li>
        <li class="list-group-item">{{product.node.space_gb}} GB of Storage</li>
        <li class="list-group-item">Up to {{product.node.users}} Users</li>
        <li class="list-group-item">{{product.node.space_gb}} GB Bandwidth</li>
        <li class="list-group-item">{{product.node.special}}</li>
        <li class="list-group-item"><a class="btn btn-primary">Sign Up Now!</a>
        </li>
      </ul>
    </div>
  </div>
</div>
```

Why still use a CMS

Nothing can replace authoring experience

Media management

Communicating to 3rd party APIs

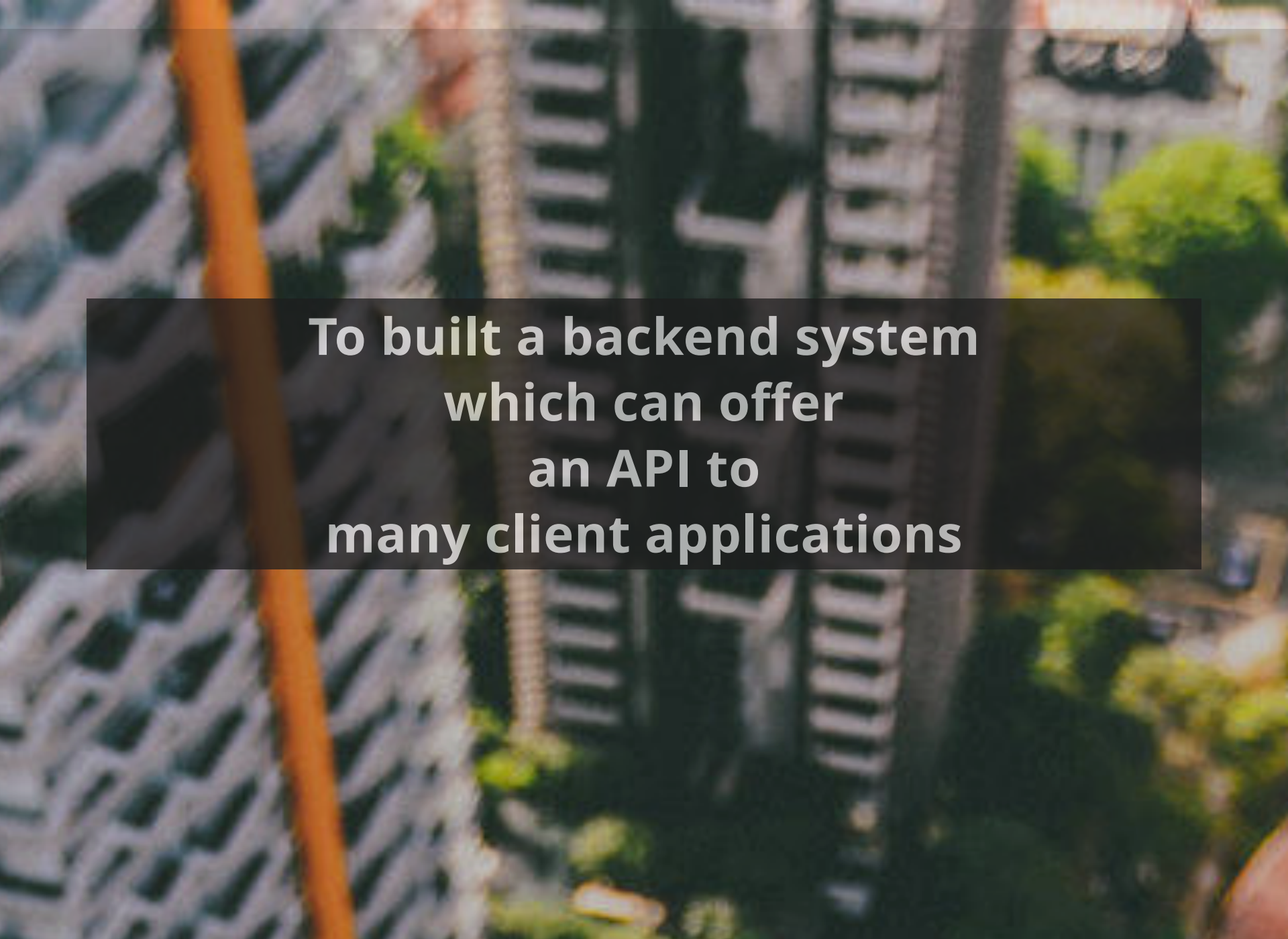
Securing user data

Structring with content types, taxonomies etc

An aerial, slightly blurred photograph of a city street. A utility pole with orange cross-arms is prominent in the foreground on the left. The street below shows a grid pattern of buildings and greenery. The text is overlaid on a dark semi-transparent background.

NPR and Netflix

NPR's backend system has been on for 12 years.

An aerial photograph of a city street, showing a grid of buildings and greenery. A dark, semi-transparent rectangular box is overlaid in the center of the image, containing white text. The text is centered and reads: "To built a backend system which can offer an API to many client applications".

**To built a backend system
which can offer
an API to
many client applications**

Results

Great front end

Very fast and responsive sites

Can build mobile apps on same platform

APIs can power other desktop/mobile apps

Easier upgrades

Faster development cycles

Problems with decoupled

Lose multilingual and localization out of the box

Accessibility

Rebuild layout management

Accessibility improvements made to core: ARIA, data and schema.org attributes.

Drupal Architecture

A close-up photograph of a woman with blonde hair wearing a red knit beanie. She is holding a vintage silver camera with both hands, looking through the viewfinder. The background is dark and out of focus.

Drupal 7 / 8

RESTful / Services module

Views datasource

Little or NO custom code

Web Services

A web service exposes raw Drupal data at certain URLs (endpoints) of your Drupal site.



Rest API

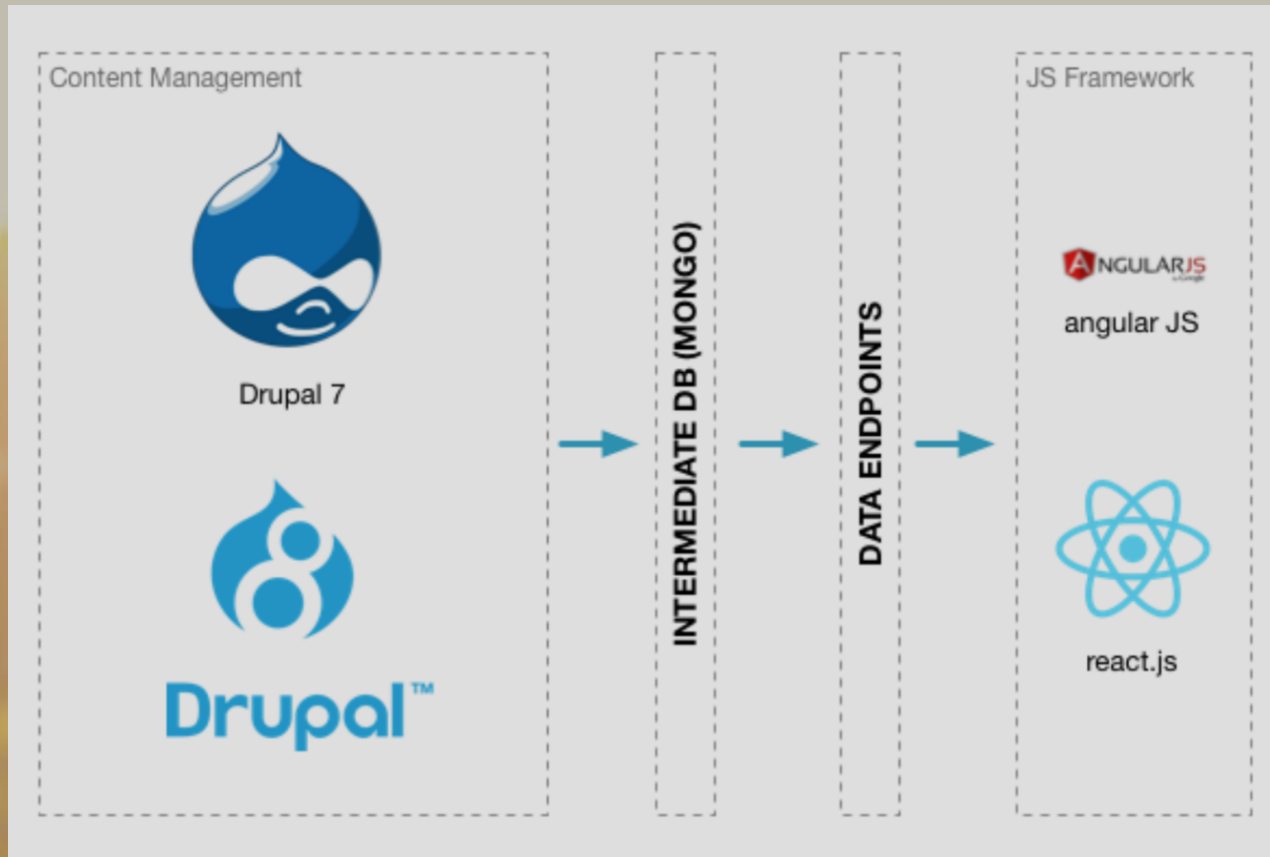
REST is an architectural pattern guiding our interaction with data.

Drupal 8

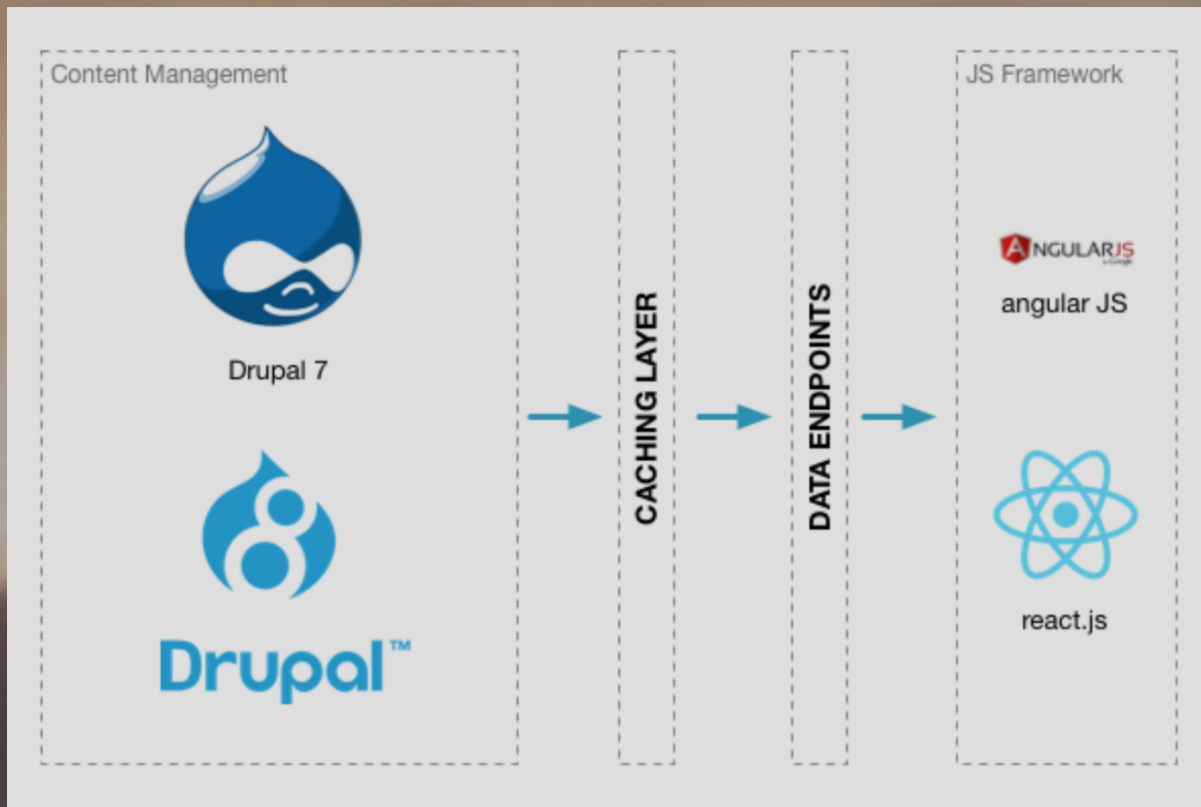
Core - Web Services (core) allows for all core entities to be exposed as JSON+HAL; Views natively supports “REST export” as a new display type.

WSCCI (Web Services and Context Core Initiative) incorporated Web Services into Drupal 8 core.

Data Flow



Data Flow 2



API Call

```
$http.get('http://headless:8888/api/blogs.json')
  .then(function(resp) {
    console.log(resp);
    $scope.blogs = resp.data['nodes'];
    // For JSON responses, resp.data contains the result
  }, function(err) {
    console.error('ERR', err);
    // err.status will contain the status code
  })
```

Fetch using Service

```
app.factory('blogService', function($http) {
  return {
    getBlogs: function(callback) {
      $http.get('http://headless:8888/api/blogs.json').success(callback);
    }
  }
});
```

Fetching Single Node

```
app.factory('nodeService', function($http) {
  return {
    getNode: function(nid, callback) {
      $http.get('http://headless:8888/node/' + nid).success(callback);
    }
  }
})
```

Data

```
"nodes": [  
  {  
    "node": {  
      "title": "Antehabeo Distineo",  
      "description": "Illum jumentum lucidus ulciscor. Ex in nobis torqueo. Letalis olim  
      "image": {  
        "src": "http://headless:8888/sites/default/files/styles/600x300/public/portfolio-  
        "alt": ""  
      },  
      "nid": "9",  
      "date": "1 day 10 hours"  
    }  
  }  
]
```


Angular Representation

```
<div class="row" ng-repeat="blog in blogs">
  <div class="col-md-1">
    <p>{{blog.node.date}}</p>
  </div>
  <div class="col-md-5">
    <a href="blog-post.html">
      
    </a>
  </div>
  <div class="col-md-6">
    <h3><a href="#/node/{{blog.node.nid}}">{{blog.node.title}}</a></h3>
    <p>by <a href="#">{{blog.node.author}}</a></p>
    <p>{{blog.node.description}}</p>
    <a class="btn btn-primary" href="#/node/{{blog.node.nid}}">
      Read More <i class="fa fa-angle-right"></i>
    </a>
  </div>
</div>
```

Routing

```
app.config(['$routeProvider', function($routeProvider) {
  $routeProvider
  // Home
  .when("/", {
    templateUrl: "partials/home.html",
    controller: "HomeCtrl"
  })
  // Pages
  .when("/about", {
    templateUrl: "partials/about.html",
    controller: "PageCtrl"
  })
  .when("/faq", {
    templateUrl: "partials/faq.html",
    controller: "FAQCtrl"
  })
  // else 404
  .otherwise("/404", {
    templateUrl: "partials/404.html",
    controller: "PageCtrl"
  });
}]);
```

A photograph of a pier extending into the ocean at sunset. The sky is filled with soft, orange and yellow clouds, and the sun is low on the horizon, creating a bright reflection on the water. The pier's structure, including its railings and support pillars, is silhouetted against the bright sky. A semi-transparent dark rectangle is centered over the image, containing the text "Integrating with Clients" in a bold, yellow, sans-serif font.

Integrating with Clients

Mobile / Web apps

Ionic based cordova apps (Angular JS)

AngularJS website

Angular - Drupal

For Drupal 7 + Services :
<https://github.com/easystreet3/angular-drupal>



DEMOS

Progressive decoupling

Decouple only components of the page.
Maintain Drupal functionality such as site building tools, security, accessibility, and layout management

Other tools...

React JS

Ember

Others ...



WHAT DID YOU THINK?
EVALUATE THIS SESSION

<http://goo.gl/ACi2tP>



Thank U+

<http://sumitk.net>

@sumitk d.o twitter

Questions