

AngularJS Tutorial: RESTful JSON Parsing with the Sensation App

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Tutorial

AngularJS is a structural framework for dynamic web apps. It lets you use HTML as your template language and lets you extend HTML's syntax to express your application's components clearly and succinctly.

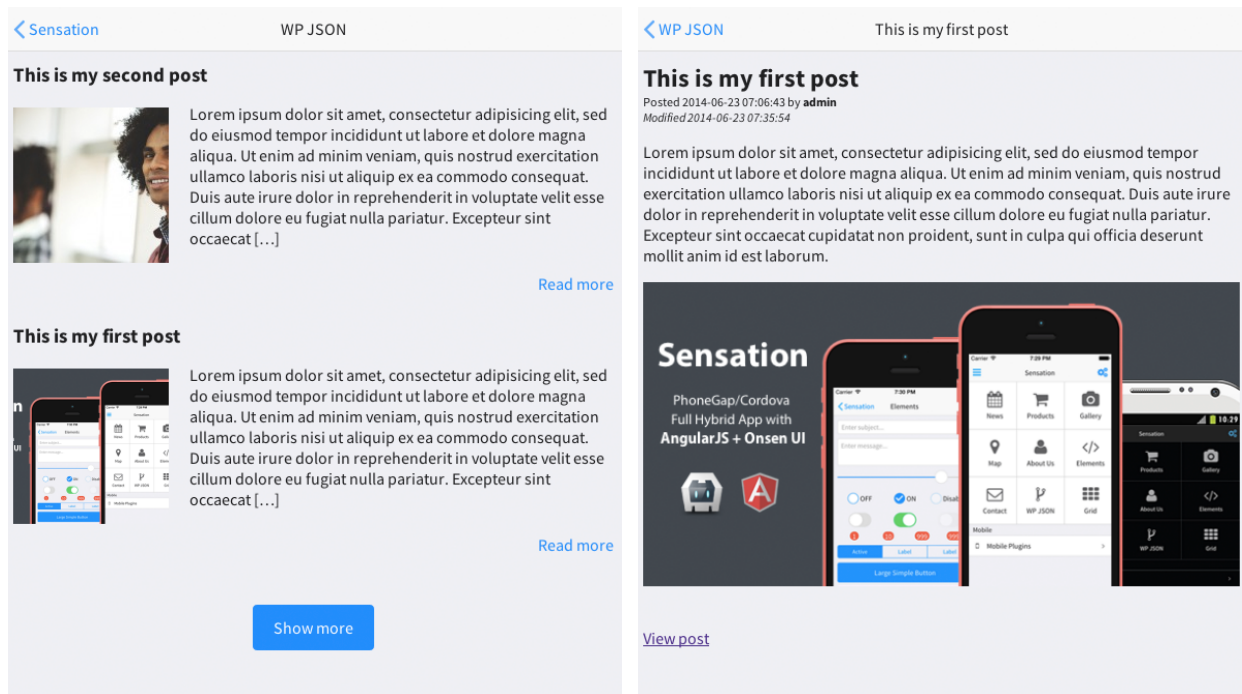
[Sensation App](#) gives you the bootstrap you need in order to build your next

PhoneGap/Cordova application based on Onsen UI. In addition, it gives you examples on how to access the native mobile functionality using the Cordova library.

News, Products, About, Wordpress and RSS Feed Reader windows in the [Sensation App](#) are fetching data from JSON sources by using the JSON protocol. [Sensation App](#) uses the \$http service. The [\\$http service](#) is a core Angular service that facilitates communication with the remote HTTP servers via the browser's XMLHttpRequest object or via JSONP.

Regarding the **Wordpress JSON window**, please check the following steps regarding its implementation. [You can use this implementation as the base in order to parse any JSON data](#)

as the scenario is the same. Please check also the tutorial with title **Custom fields from Wordpress JSON API with the Sensation App** here https://docs.google.com/document/d/10xJitKuNz50ub8ep2MqnRfzbNuvC_W5Y8ky2hH4aXApE_.



1. Wordpress.json

Let's parse for example the following Wordpress JSON data. The following JSON data are exposed from the [JSON API Wordpress plugin](http://wordpress.org/plugins/json-api/screenshots/). Please check also this screenshot <http://wordpress.org/plugins/json-api/screenshots/>.

```
{ "status": "ok", "count": 2, "count_total": 2, "pages": 1, "posts": [
  {
    "id": 1,
    "type": "post",
    "slug": "layout-test",
    "url": "http://wordpress.test/2008/09/04/layout-test/",
    "status": "publish",
    "title": "Lorem ipsum dolor sit amet",
    "title_plain": "Lorem ipsum dolor sit amet",
    "content": "<p>Lorem ipsum dolor sit amet, consectetur
adipisicing elit, sed do eiusmod tempor incididunt ut labore et
dolore magna aliqua. Ut enim ad minim veniam.</p>\n",
    "excerpt": "Lorem ipsum dolor sit amet, consectetur
adipisicing elit, sed do eiusmod tempor incididunt ut labore et
dolore magna aliqua. Ut enim ad minim veniam.",
```

```

        "date":"2013-09-04 23:02:20",
        "modified":"2013-09-04 23:02:20",
        "categories":[

{"id":3,"slug":"aciform","title":"aciform","description":"","parent":
0,"post_count":2},
        {"id":9,"slug":"cat-a","title":"Cat
A","description":"","parent":0,"post_count":2},
        "tags":[

{"id":93,"slug":"tag1","title":"tag1","description":"","post_count":1
},
        "author":{"id":3,"slug":"chip-bennett","name":"Lorem
Ipsum","first_name":"","last_name":"","nickname":"Lorem
Ipsum","url":"","description":""}
        },
        {
            "id":2,
            "type":"post",
            "slug":"layout-test",
            "url":"http://\wordpress.test\2008\09\04\layout-test\\"",
            "status":"publish",
            "title":"Lorem ipsum dolor sit amet",
            "title_plain":"Lorem ipsum dolor sit amet",
            "content":"<p>Lorem ipsum dolor sit amet, consectetur
adipisicing elit, sed do eiusmod tempor incididunt ut labore et
dolore magna aliqua. Ut enim ad minim veniam.</p>\n",
            "excerpt":"Lorem ipsum dolor sit amet, consectetur
adipisicing elit, sed do eiusmod tempor incididunt ut labore et
dolore magna aliqua. Ut enim ad minim veniam.",
            "date":"2013-09-04 23:02:20",
            "modified":"2013-09-04 23:02:20",
            "categories":[

{"id":3,"slug":"aciform","title":"aciform","description":"","parent":
0,"post_count":2},
            {"id":9,"slug":"cat-a","title":"Cat
A","description":"","parent":0,"post_count":2},
            "tags":[

{"id":93,"slug":"tag1","title":"tag1","description":"","post_count":1
},

```

```
{
  "id": 94, "slug": "tag2", "title": "tag2", "description": "", "post_count": 1
},
  "author": {
    "id": 3, "slug": "chip-bennett", "name": "Lorem Ipsum",
    "first_name": "", "last_name": "", "nickname": "Lorem Ipsum",
    "url": "", "description": ""
  }
}
]]
```

2. Angular Ajax API call

We need a way to transition from one page to another and have the data shared between those pages. [Sensation App](#) makes it easy to do so using **AngularJS Service and Controller**.

Therefore, we need to create **a Controller* for the master Wordpress Posts page (posts.html)** into the main **app.js** which collects all the Wordpress Posts:

** at the following 'PostsController', please set your JSON data url*

```
// Wordpress Posts Controller
app.controller('PostsController', function($scope, $http, PostsData)
{

    $http({method: 'GET', url: 'js/wordpress.json'}).
    success(function(data, status, headers, config) {
        $scope.posts = data.posts;

    }).
    error(function(data, status, headers, config) {

    });

    $scope.showDetail = function(index) {
        var selectedItem = $scope.posts[index];
        PostsData.selectedItem = selectedItem;
        $scope.ons.navigator.pushPage('post.html', selectedItem);
    }

});
```

and one Controller for the Wordpress Post (post.html):

```
// Wordpress Post Controller
app.controller('PostController', function($scope, PostsData) {
    $scope.item = PostsData.selectedItem;
```

```
});
```

3. HTML Pages - Data Binding

Into the posts.html page by using the 'PostsController' Controller and [ngRepeat directive](#), we are printing the Wordpress Post title {{post.title}} and a short extract from the content {{post.excerpt}} .

*Example code part of the **posts.html** into the [Sensation App](#):*

```
<ons-page ng-controller="PostsController" >

  <ons-scroller>

    <div ng-repeat="post in posts">
      <ons-row >
        <h3 class="title"
ng-click="showDetail($index)" >{{post.title}} </h3>
        <p>{{post.excerpt}} </p>
      </ons-row>
    </div>

  </ons-scroller>

</ons-page>
```

Into the post.html page by using the 'PostController' Controller and [ngRepeat directive](#), we are printing all the Wordpress Post elements just by following the data structure. Please check also the {{item.tags}} example for further use of the **ng-repeat** in your elements.

*Example code part of the **post.html** into the [Sensation App](#):*

```
<ons-page ng-controller="PostController" >

  <h2>{{item.title}} </h2>

  Posted {{item.date}} by <strong>{{item.author.name}} </strong>

  <p ng-bind-html="item.content" ></p>

  <p ng-show="{{item.tags}}" >
    <span ng-repeat="tag in item.tags">{{tag.title}} </span>
  </p>
```

```
<a ng-href="{{item.url}}">Post URL</a>
```

```
</ons-page>
```

4. Open any external link with InAppBrowser Plugin

If you need this functionality in the **Wordpress Post window** as the content is printed using the `<p ng-bind-html="item.content"></p>`, please follow the steps in the following tutorial in order to open any external link with InAppBrowser PhoneGap / Cordova Plugin - [How to open any external link with InAppBrowser PhoneGap / Cordova Plugin](#).

You may be interested also in the following **Wordpress Tutorials**:

- [Custom fields from the Wordpress JSON API with the Sensation App](#)
- [Custom Posts from the Wordpress JSON API with the Sensation App](#)

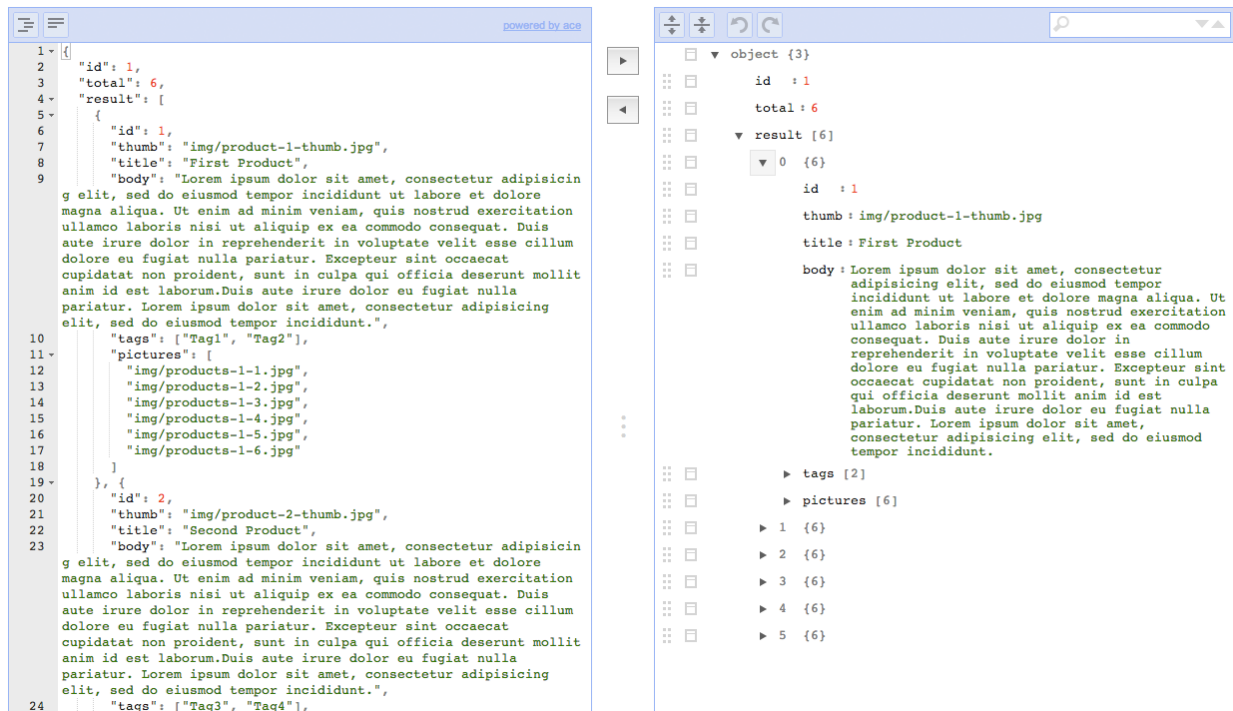
Wordpress JSON API

Please check also here <http://goo.gl/Za1Z1m> an example with:

- A Wordpress 3.9.1 installation
- The JSON API plugin <https://wordpress.org/plugins/json-api/>
- Sensation Wordpress Master/Detail pages

JSON Editor Online

JSON Editor Online is a web-based tool to view, edit, and format JSON. It shows your data side by side in a clear, editable treeview and in a code editor.



This tool contains two panels: a code editor on the left, and a Tree Editor on the right. It is very helpful for your custom JSON data formats. Just paste your data at the left side and take the tree formatted structure at the right side.

Website: <http://jsoneditoronline.org>

Documentation : <http://www.jsoneditoronline.org/doc/index.html>

Hope this tutorial was really helpful for you :) For any extra question, please use the contact form under my profile

http://codecanyon.net/user/gtsopour?WT.ac=item_profile_text&WT.z_author=gtsopour

Thanks
George