





















CardioLog Analytics

















Sharegate



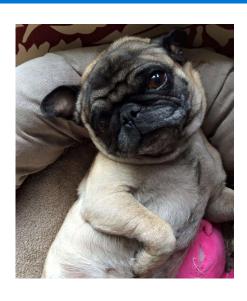


Jared Matfess Solution Principal, Slalom Consulting

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- Microsoft MVP
- Technology Consultant
- Craft Beer Snob









Our Services

We bring experience, expertise, and big ideas to the table—plus the tactical chops to bring those ideas to life. Whether you need to grow and scale, do more with less, or improve customer experiences, we can support you at any stage of your strategic journey. And more important, identify and build the capabilities you need to solve problems and evolve long after we've left.



Customer

Engagemen

Leverage the right data in your big data through a technology-agnostic approach to generate consumable information and enact solutions.

- Data Visualization and Discovery
- Information Strategy
- Analytics
- Data Management
- Business Intelligence







- Digital Strategy
- Interactive Engineering
- Experience Design
- Product Incubation



Link your strategic vision with executable techniques to gain alignment and drive untapped potential and value to your organization ~ Unleash business value from your processes and people through improvements in strategy, culture, and role clarity.

- Strategy Advisory
- Business Transformation
- Performance Improvement
- Mergers & Acquisitions



Realize the business value of your most strategic initiatives by making your methods and practices more agile to deliver results.

- Program and Project Management
- Business and Technical Analysis
- Ouality Assurance
- Agile and Delivery



Our teams build exceptional apps, improve your customer relationships, design content experiences that boost engagement, and bring agile best practices to bear on each and every project.

- Software Engineering
- Portals and Collaboration
- Next Generation Infrastructure



Slalom Proprietary & Confidential

Slalom Minneapolis



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Featured SharePoint & Office 365 Services



Applications

Automating business processes through workflow driven solutions.

Portals & Collaboration

Building rich Intranets and enabling enterprise collaboration.

Governance

Setting the foundation for enabling user adoption & ongoing platform maintainability.

Migrations

Partnering on upgrades and migration to SharePoint & Office 365 from legacy systems.

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Resources (Slides + Code)



https://github.com/JaredMatfess/SPSTC

Quick Tangents..

- Citizen Developer
- SharePoint Framework



My Target Audience

- Power User / Maybe Jr. Developer
- Want to learn how to build a cool quick webpart
- Not really about writing a ton of code
- Maybe some JavaScript experience or at least can copy & paste
- Anyone that'll sit for an hour and let me talk

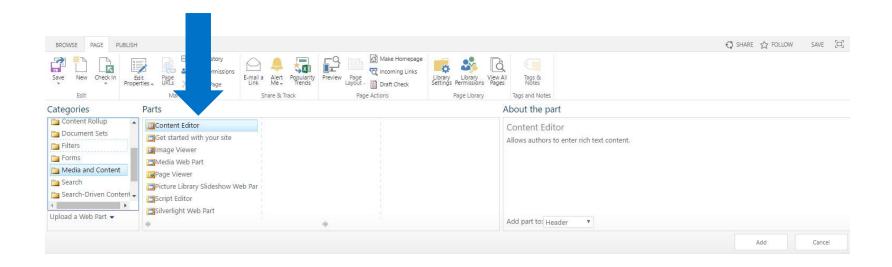


What I'm not going to talk about...

- Frameworks
- MVC/MVVM
- Webpack
- Typescript
- Angular
- Object Oriented Programming
- SharePoint Framework



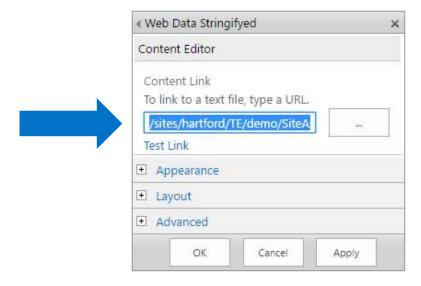
Getting started



Get comfortable with a Content Editor



Getting started



Get even more comfortable with Content Link!

jQuery & AJAX

- jQuery is an awesome JavaScript library for updating the DOM
- AJAX allows you to make asynchronous call for SharePoint REST endpoint
- Success callback function is where you can do something with the data that's returned from the AJAX call
- The URL parameter of your AJAX function is where you specify the endpoint

Examples

- /_api/web Properties of the site (web) that you are currently in
- /_api/web/lists Site lists
- /_api/web/SiteGroups SharePoint Groups in that site
- /_api/search Search REST API



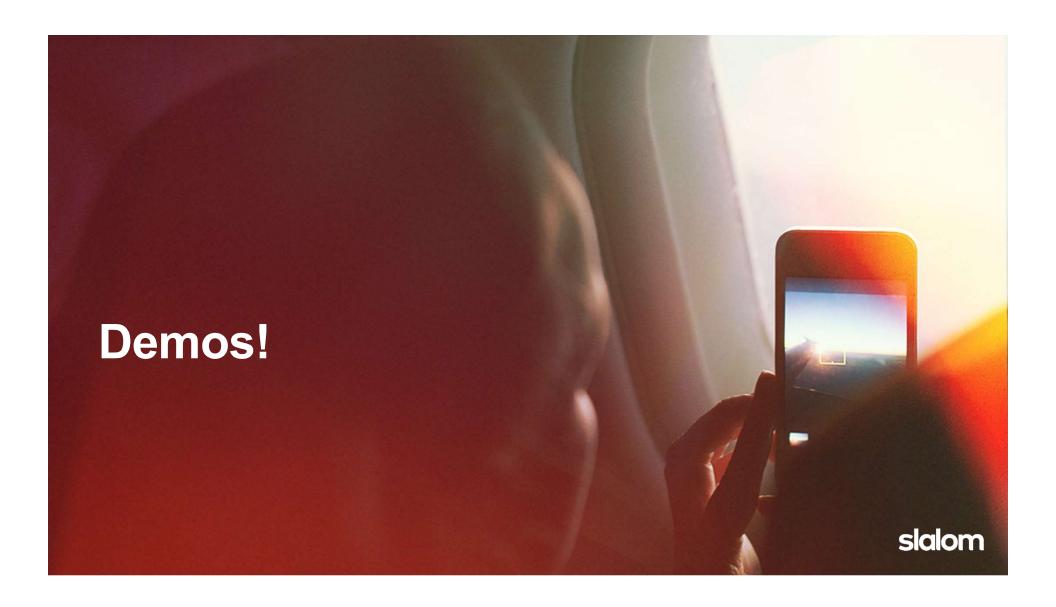
AJAX calls run under the context of the current user accessing the script!

Moment.js 2.17.1

Fantastic for formatting dates to something useful (example)

<d:Created m:type="Edm.DateTime">2016-12-04T14:50:00Z</d:Created>
12/4/2016 or 12/4 or 12/4/16

Can also perform calculations such as add a week, subtract a week, etc.



Demo 1

```
<script src="https://ajax.googleapis.com/ajax/libs/jquery/1.12.4/jquery.min.js"></script>
<script>
$ (document).ready(function() (
        $.ajax((
            url: spPageContextInfo.webAbsoluteUrl + "/ api/web/", //Gets details on the current Web
            method: "GET",
            headers: {"accept": "application/json;odata=verbose"},
            success: function(xData, request)(
                var q = JSON.stringify(xData.d);
                $('div#WebDetails').append(q); //Append stringifyed text to WebDetails DIV
                console.log(xData); //Log xData to console
            1.
            error: function (message) (
                console.log(message); //Error message for AJAX call
        1);
1 );
</script>
<div id="WebDetails"></div>
```

Demo 1 Result

Web Data Stringifyed

metadata":["id":"https://twodegrees1.sharepoint.com/sites/hartford/TE/demo/_api/Web","bp.e":"SP.Web"],"FirstUniqueAncestorSe" ["uri":"https://twodegrees1.sharepoint.com/sites/hartford/TE/demo/_api/Web/FirstUniqueAncestorSecurableObject"]],"RoleAssignments":["__deferred":["uri":"https://twodegrees1.sharepoint.com/sites/hartford/TE/demo/_api/Web/FirstUniqueAncestorSecurableObject"]],"RoleAssignments":["_deferred":["uri":"https://twodegrees1.sharepoint.com/sites/hartford/TE/demo/_api/Web/FirstUniqueAncestorSecurableObject"]],"RoleAssignments":["_deferred":["uri":"https://twodegrees1.sharepoint.com/sites/hartford/TE/demo/_api/Web/FirstUniqueAncestorSecurableObject"]],"RoleAssignments":["_deferred":["uri":"https://twodegrees1.sharepoint.com/sites/hartford/TE/demo/_api/Web/FirstUniqueAncestorSecurableObject"]],"RoleAssignments":["_deferred":["uri":"https://twodegrees1.sharepoint.com/sites/hartford/TE/demo/_api/Web/FirstUniqueAncestorSecurableObject"]],"RoleAssignments":["_deferred":["uri":"https://twodegrees1.sharepoint.com/sites/hartford/TE/demo/_api/Web/FirstUniqueAncestorSecurableObject"]],"RoleAssignments":["_deferred":["uri":"https://twodegrees1.sharepoint.com/sites/hartford/TE/demo/_api/Web/FirstUniqueAncestorSecurableObject"]],"RoleAssignments":["_deferred":["_deferred":["_deferred":["_deferred":["_deferred":["_deferred":["_deferred":["_deferred":["_deferred":["_deferred":["_deferred":["_deferred":[]_deferred ":[]_deferred":[]_deferred ":[]_deferred ":[]_deferr ["uri":"https://twodegrees1.sharepoint.com/sites/hartford/TE/demo_api/Web/AllProperties"]],"AppTiles":["__deferred":["uri":"https://twodegrees1.sharepoint.com/sites/hartford/TE/demo/_api/Web/AppTiles"]],". 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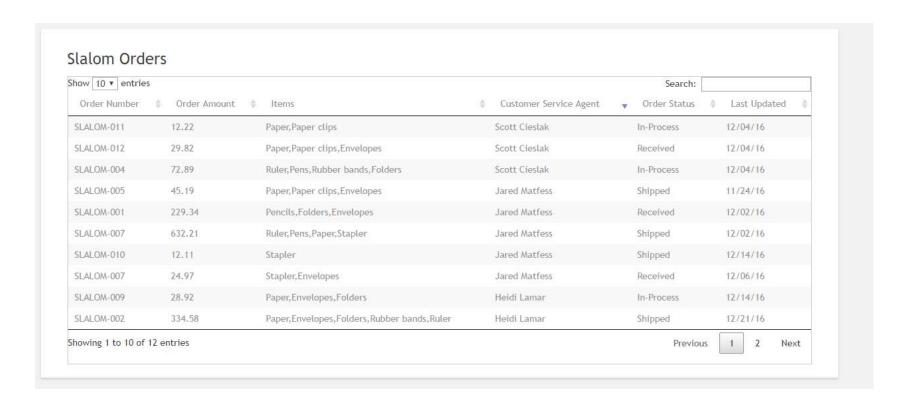
Demo 2

Orders Table

Order Number	Order Amount	CS Agent	Order Status	Last Update	Items
SLALOM-001	229.34	11	Received	2016-12-02T05:00:00Z	[object Object]
SLALOM-002	334.58	13	Shipped	2016-12-21T05:00:00Z	[object Object]
SLALOM-003	112.52	13	In-Process	2016-12-14T05:00:00Z	[object Object]
SLALOM-004	72.89	50	In-Process	2016-12-04T05:00:00Z	[object Object]
SLALOM-005	45.19	11	Shipped	2016-11-24T05:00:00Z	[object Object]
SLALOM-006	1200.13	13	Received	2016-11-30T05:00:00Z	[object Object]
SLALOM-007	632.21	11	Shipped	2016-12-02T05:00:00Z	[object Object]
SLALOM-007	24.97	11	Received	2016-12-06T05:00:00Z	[object Object]
SLALOM-009	28.92	13	In-Process	2016-12-14T05:00:00Z	[object Object]
SLALOM-010	12.11	11	Shipped	2016-12-14T05:00:00Z	[object Object]
SLALOM-011	12.22	50	In-Process	2016-12-04T05:00:00Z	[object Object]
SLALOM-012	29.82	50	Received	2016-12-04T05:00:00Z	[object Object]



DataTables



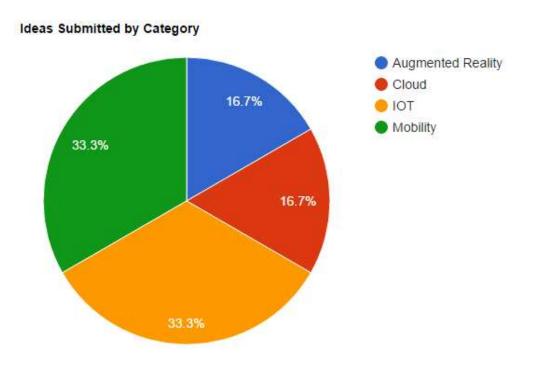


Upcoming Events Webpart





Google Charts – List API



UNDERSCORE.JS

- Lightweight JavaScript Library that provides useful utility functions
- Very helpful when dealing with arrays and preparing data



Dealing with lots of data

Who's ever deal with SharePoint's 5,000 item limit before?



My sample:

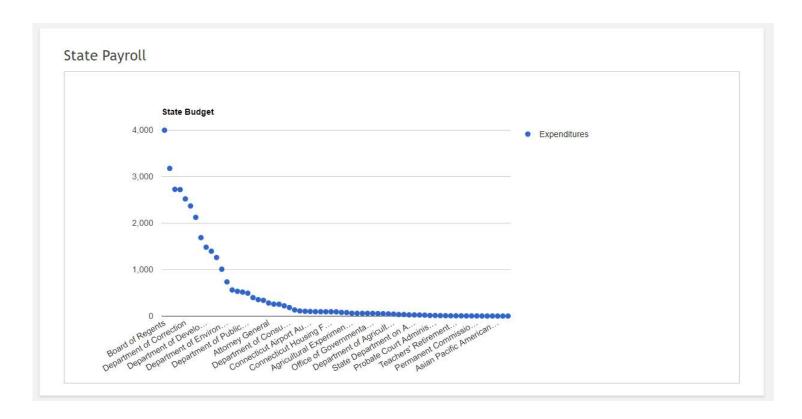
StatePayroll

List

33497



"Big Data" Reporting



How did I build it? Search!

- SharePoint Search can return millions of records
- SharePoint Supports 30,000,000 items per list
- SharePoint's Search engine has a REST API!



Managed Properties

- In order to leverage Search you'll need to create Managed Properties
- Recommend mapping crawled properties to existing managed properties
- Site Settings > Search and offline availability > Reindex site

Reindex site Marking this site for reindexing will enable this site to be picked up during the next scheduled search crawl.

SharePoint Designer Workflows

Build {...} Dictionary (Output to Variable: RequestHeaders)

then Set Variable: URL to [%Workflow Context:Current Site URL%]...

then Call [%Variable: URL%] HTTP web service with request (ResponseContent to Variable: ResponseHeaders to Variable: ResponseHeaders (ResponseStatusCode to Variable: responseCode)

then Log REST Response: [%Variable: responseCo... to the workflow history list

then Get d/results from Variable: ResponseContent (Output to Variable: Items)

then Count Items in Variable: Items (Output to Variable: count)

then Log [%Variable: count%] items to the workflow history list

then Set Variable: LoopCounter to 0

Loop: Iterate over results

The contents of this loop will run repeatedly while: Variable: LoopCounter is less than Variable: count

Get d/results([%Variable: LoopCounter%]) from Variable: ResponseContent (Output to Variable: CurrentItem)

then Get Title from Variable: CurrentItem (Output to Variable: Title)

then Log [%Variable: Title%] to the workflow history list

then Calculate Variable: LoopCounter plus 1 (Output to Variable: calc)

then Set Variable: LoopCounter to Variable: calc

Transition to stage

Go to End of Workflow



SharePoint Designer Workflow Tips

- Syntax can be a pain
- E-mail response headers & response content for troubleshooting

Response Content:

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Short loin brisket ribeye turkey tongue pork boudin tri-tip. Frankfurter short ribs biltong brisket tri-tip drumstick. Shankle ham hock strip steak, sirloin frankfurter meatloaf prosciutto tenderloin corned beef turkey filet mignon. Boudin cupim capicola cow pastrami tail drumstick. 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