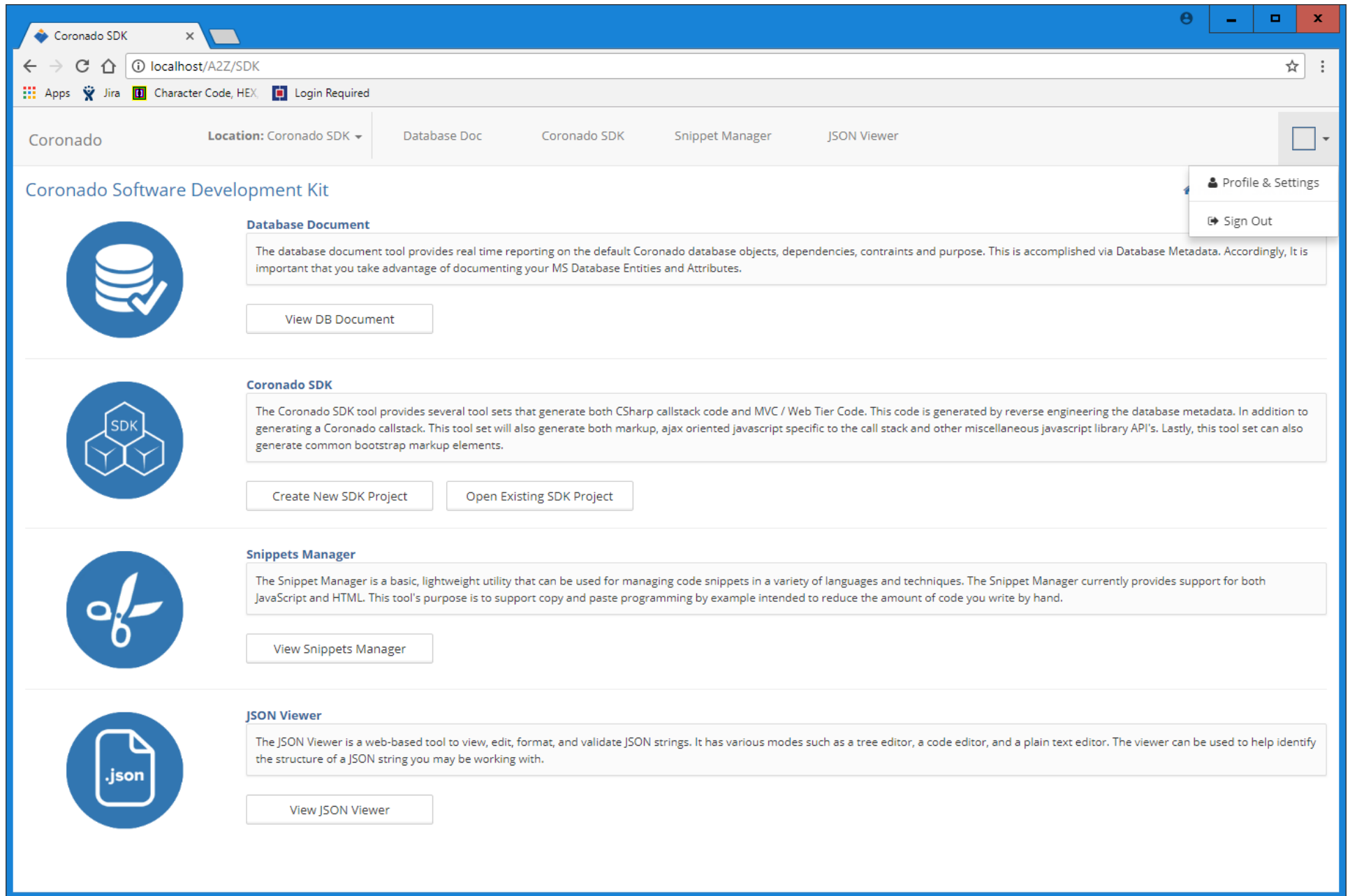


## Open SDK Integration

The following screen capture demonstrates a stable working copy of the SDK that is being rewritten to support other languages besides JavaScript, ASP.NET and C#. The purpose of this SDK is to provide a tool that allows you to plan, design and document your project where you can then generate coded functionality as needed. This code is then incorporated with your IDE of choice.

The following screen shots illustrate real working software written by Sean McNeill

FOR YOUR EYES ONLY



Current dashboard, next version will contain key performance analytics and charts

Coronado SDK

localhost/A2Z/SDK/CallStack/Projects

Apps

Jira

Character Code, HEX

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Snippet Manager

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## Coronado SDK Project Files

**Option 1: Upload Coronado SDK XML Document**

To upload a Coronado SDK XML document, use the form below to find the file on your disc and click upload to validate and process the file. After the file is processed, it will be available as a project on file.

Select an XML document from your local file system.

**Option 2: Upload Coronado SDK JSON File**

To upload a Coronado SDK JSON File, use the form below to find the file on your disc and click upload to process and validate the file. After the file is processed, it will be available as a project on file.

Select a JSON file from your local file system.

**Option 3: Select Project on File**

Lastly, you can select a project object on record. To do this, find the project that you wish to view and click the "Load Project" button.

Project Name	Last Modified	Data Source	Options
ACL - Access Control Model	Jan 12, 2018	CATALINA_UAT	<input type="button" value="View Object"/> <input type="button" value="Open File"/>
CAP - Core API	Jan 12, 2018	CATALINA_UAT	<input type="button" value="View Object"/> <input type="button" value="Open File"/>

Code generation is only part of a larger project. Managing projects can start with a simple file and be cast into object models and saved in a data source of your choice

Coronado SDK

localhost/A2Z/SDK/Snippet

AppsJiraCharacter Code, HEXLogin Required

CoronadoLocation: Coronado SDKDatabase DocCoronado SDKSnippet ManagerJSON Viewer

MarkUp & Script Snippets Manager

Home / SDK Home / Snippets Manager

Options

Snippet Type

JavaScript Snippets

Snippet Class

JQuery Snippets

Available Snippets

Ajax Calls

Document Ready Event Handler

Add New Snippet

Snippet Editor

JavaScript Snippets

JQuery Snippets

```
1 // Ajax Calls
2
3 // Rest Namespace Path to Functions
4 <script type="text/javascript" src=~\Areas\Rest\Scripts\Acl.js"></script>
5 <script type="text/javascript" src=~\Areas\Rest\Scripts\Com.js"></script>
6 <script type="text/javascript" src=~\Areas\Rest\Scripts\Geo.js"></script>
7 <script type="text/javascript" src=~\Areas\Rest\Scripts\Inv.js"></script>
8 <script type="text/javascript" src=~\Areas\Rest\Scripts\Ops.js"></script>
9 <script type="text/javascript" src=~\Areas\Rest\Scripts\Utility.js"></script>
10
11 // Or - You Can Provide Your Own
12
13 // Rest Service Page
14 var restPage = webPage.WebRoot + webPage.AppRoot + "/SDK/Rest/UpdateSnippet";
15
16 // Standard GET
17 $.ajax({
18   type: 'GET',
19   url: restPage,
20   dataType: 'json',
21   async: false,
22   success: function (result) {
23     // Json Message Response
24     if (result.Status == 'ERROR') {
25       // Handle Error
26       alert(result.Summary);
27     }
28     else {
29       returnValue = result;
30     }
31   },
32   error: function (xhr, ajaxOptions, thrownError) {
33     alert(thrownError);
34   }
35 });
36
37 // Standard Form Post
38 var ajaxPost = $('#ajaxForm');
39 ajaxPost.submit(function(event) {
```

Save Changes

Example of generic Snippets Manager

Coronado SDK

localhost/A2Z/SDK/CallStack

AppsJiraCharacter Code, HEXLogin Required

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Search

First, solve the problem. Then, generate the code.[Home](#)

Designer Options

DB ModelProject Tree

Data Source

Portal DSN: PW-IT-SEAN-W10.CORONADO

Table Models

ACL - Access Control Model

Call Stack Namespace

Coronado

Web Tier Namespace

Coronado

Tables To Map

Select All

Please select a table model...

API Project Path

Path to project root

Load Objects

Sandbox

It appears your configured database connection properties have administrative privileges. You are encouraged to change this in production environments.

Welcome to the Coronado SDK Code Generator!

Hi Sean!

From the looks of things, it looks like you are new to the using this tool. This is based on the lack of any SDK attributes being added. Currently this SDK is running under a default safe mode. This mode however may not represent the entirety of this sytem. Particularly as it pertains to the relational object model entities and attributes.

Getting Started

Currently, this SDK is connected to the portal's database. The first thing we recommend you do is create a datasource name that uses MS SQL Server administrative credentials. This is even true for the current database this portal is connected to. After creating a DSN, we encourage you to add or remove table schemas to that connection for smoother operation.

+ Add Datasoure Name

About this SDK

The Coronado SDK provides a turnkey code generator designed to perform the heavy lifting when a new call stack is required. This SDK relies on database metadata and a predictable service oriented architecture to generate all the source code you will need to get your project started. As with anything, this SDK is not a silver bullet, but a means to a closer end.


API Architecture & Design Principles

Relational Object Model

Portal Framework

Ajax/Rest Services

Other Design Patterns



Need More Help?

Example of SDK Design Screen. The SDK creates SOA API's with a service layer. This call stack can be generated via reverse engineering the database layer.

Coronado SDK

localhost/A2Z/SDK/CallStack

Apps Jira Character Code, HEX Login Required

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First, solve the problem. Then, generate the code. Home

**Designer Options**

**DB Model** Project Tree

Data Source  
Portal DSN: PW-IT-SEAN-W10.CORONADO

Table Models  
COM - Community Object Model

Call Stack Namespace  
Coronado.COM

Web Tier Namespace  
Coronado.Portal.Areas.COM

Tables To Map ☒ Select All

- COM\_CHANGE\_LOG
- COM\_CONTACT
- COM\_LOCATION
- COM\_MEMBER
- COM\_MEMBER\_EAV
- COM\_MEMBER\_EAV\_VALUE
- COM\_RELATIONSHIP

API Project Path  
C:\Development\Projects\Coronado

Load Objects

**Sandbox**

**Database Model Diagram**

```
graph LR
    COM_MEMBER -- MEMBER_ID (FK) --> COM_MEMBER_EAV
    COM_MEMBER -- MEMBER_ID (FK) --> COM_MEMBER_EAV_VALUE
    COM_MEMBER -- MEMBER_ID (FK) --> COM_CONTACT
    COM_MEMBER -- MEMBER_ID (FK) --> COM_LOCATION
    COM_MEMBER -- MEMBER_ID (FK) --> COM_RELATIONSHIP
    COM_MEMBER -- MEMBER_TYPE (FK) --> COM_CONTACT
    COM_MEMBER -- MEMBER_TYPE (FK) --> COM_LOCATION
    COM_MEMBER -- MEMBER_TYPE (FK) --> COM_RELATIONSHIP
    COM_MEMBER_EAV -- ATTRIBUTE_ID (FK) --> COM_MEMBER_EAV_VALUE
    COM_CONTACT -- MEMBER_ID (FK) --> COM_MEMBER
    COM_CONTACT -- CONTACT_TYPE (FK) --> COM_MEMBER
    COM_CONTACT -- CONTACT_TYPE (FK) --> COM_CONTACT
    COM_CONTACT -- CONTACT_TYPE (FK) --> COM_LOCATION
    COM_CONTACT -- CONTACT_TYPE (FK) --> COM_RELATIONSHIP
    COM_LOCATION -- MEMBER_ID (FK) --> COM_MEMBER
    COM_LOCATION -- LOCATION_TYPE (FK) --> COM_MEMBER
    COM_LOCATION -- LOCATION_TYPE (FK) --> COM_CONTACT
    COM_LOCATION -- LOCATION_TYPE (FK) --> COM_LOCATION
    COM_LOCATION -- LOCATION_TYPE (FK) --> COM_RELATIONSHIP
    COM_CHANGE_LOG -- LOG_ID --> COM_MEMBER
    COM_CHANGE_LOG -- LOG_ID --> COM_MEMBER_EAV
    COM_CHANGE_LOG -- LOG_ID --> COM_MEMBER_EAV_VALUE
    COM_CHANGE_LOG -- LOG_ID --> COM_CONTACT
    COM_CHANGE_LOG -- LOG_ID --> COM_LOCATION
    COM_CHANGE_LOG -- LOG_ID --> COM_RELATIONSHIP
```

After a taxonomy is selected, you click the load objects button, a progress indicator displays while the call stack is generated (2 to 5 seconds)

Coronado SDK

localhost/A2Z/SDK/CallStack

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  - Coronado.COM
    - Add Custom Method
    - Contracts
    - Data
    - Model
    - Service
  - Web Tier SDK
    - Rest Services
    - JavaScript Service Object
    - JavaScript Snippets
    - MarkUp Snippets
  - PW-IT-SEAN-W10.CORONADO\_DB
  - View SDK Object

**Sandbox**

**Project Home**

**Standard Coronado Call Stack**

Portal Application Web Services Desktop Command Line

**Service Layer**

Service Provider

- Community
- Metadata
- Operations
- Scalable

**Data Provider**

Abstract Data Factory ↔ Provider Interface Contract

Supported Database ↔ MSSQL Concrete DAO Provider ↔ Database ORM Provider

**Data Transfer Object**

Coronado Object Model

Object Properties & State Management

**Multi-Platform Database Support**

Microsoft SQL Server TBD

**Top Down, Metadata Driven Database Relational Object Model**

After all the project objects are marshalled and serialized, a project tree is loaded allowing you to see the source code manifest

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Add Custom Method

Contracts

IDAOFactory

ILogProvider

IContactProvider

ILocationProvider

IMemberProvider

IMemberProvider

IMemberValueProvider

IRelationshipProvider

Data

CAPI

DAOFactory

CAPIFactory

Model

ChangeLog

Contact

Location

Member

Member

Sandbox

Assembly Name: Coronado.COM

Interface Classes

An interface contains only the signatures of methods, properties, events or indexers. A class or struct that implements the interface must implement the members of the interface that are specified in the interface definition.

Namespace	Class	Type	Description
Coronado.COM.Contracts	<a href="#">ILogProvider</a>	DAOInterface	Change Log Contract Interface Provider
Coronado.COM.Contracts	<a href="#">IContactProvider</a>	DAOInterface	Contact Contract Interface Provider
Coronado.COM.Contracts	<a href="#">ILocationProvider</a>	DAOInterface	Location Contract Interface Provider
Coronado.COM.Contracts	<a href="#">IMemberProvider</a>	DAOInterface	Member Contract Interface Provider
Coronado.COM.Contracts	<a href="#">IMemberProvider</a>	DAOInterface	Member Eav Contract Interface Provider
Coronado.COM.Contracts	<a href="#">IMemberValueProvider</a>	DAOInterface	Member Eav Value Contract Interface Provider
Coronado.COM.Contracts	<a href="#">IRelationshipProvider</a>	DAOInterface	Relationship Contract Interface Provider

Model Classes

A Model is an object (Data Transfer Object) that persists data accross process boundaries. The Model class in the Coronado API corresponds to a specific table in the database.

Namespace	Class	Type	Description
Coronado.COM.Model	<a href="#">ChangeLog</a>	Model	Change Log Model
Coronado.COM.Model	<a href="#">Contact</a>	Model	Contact Model
Coronado.COM.Model	<a href="#">Location</a>	Model	Location Model
Coronado.COM.Model	<a href="#">Member</a>	Model	Member Model

Source code is presented as a documented project where you can add additional project information.



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    - IContactProvider
    - ILocationProvider
    - IMemberProvider
    - IMemberProvider
    - IMemberValueProvider
    - IRelationshipProvider
  - Data
    - CAPI
    - DAOFactory
    - CAPIFactory
  - Model
    - ChangeLog
    - Contact
    - Location
    - Member
    - Member
    - MemberValue

**Sandbox**

Class: Coronado.COM.Member

Class Information Source Code

**Member Class**

Not Defined

Namespace: Coronado.COM.Model

Assembly: Coronado.COM.dll

**Application Program Interface**

```
// API Singleton Use Case Syntax Example
Member member = MemberServiceProvider.Instance.GetMemberById('xxx');

// Call Stack Hierarchy
MemberServiceProvider (Service Layer Entry Point)
-- IMemberProvider
-- MemberDAOProvider
-- MemberORMProvider
returns Member ~or~ List<Member>
```

**Constructors**

Name	Description
Member	Initializes a new instance of the Member class

**Properties**

Name	Description
MemberId	Not Defined

The SDK also serves as your point of API definition and documentation

Coronado SDK

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      - IChangeLogProvider
      - IContactProvider
      - ILocationProvider
      - IMemberProvider
      - IMemberProvider
      - IMemberValueProvider
      - IRelationshipProvider
    - Data
      - CAPI
        - DAOFactory
        - CAPIFactory
      - Model
        - ChangeLog
        - Contact
        - Location
        - Member
        - Member

**Sandbox**

Class: Coronado.COM.Member

Class Information Source Code

```
1 /*
2 Caution: This file is generated code and is subject to modification.
3 - $DateGenerated: 3/21/2018 5:24:15 PM UTC
4 - $CodeGenTool: Coronado Call Stack API Designer
5 - $CodeGenVer: 0.1 (alpha)
6
7 In the event this tool encounters a file with the same name when writing to disk,
8 this tool will first rename the existing file with a date/time stamp and change
9 the file extension to .back. Having said that, as a developer - should you need to
10 extend this class, you are encouraged to do this via a partial class so you do not
11 loose existing class functionality.
12 */
13
14 using Coronado.API;
15 using System;
16 using System.Collections.Generic;
17 using System.Runtime.Serialization;
18
19 namespace Coronado.COM.Model
20 {
21     /// <summary>
22     /// Not Defined
23     /// </summary>
24     [Serializable]
25     [DataContract]
26     public class Member : DataTransferObject
27     {
28         // Property Fields
29         private Guid memberId = Guid.NewGuid();
30         private String memberType = String.Empty;
31         private String memberClass = String.Empty;
32         private String displayName = String.Empty;
33         private String commonName = String.Empty;
34         private String givenName = String.Empty;
35         private String otherName = String.Empty;
36         private String partition = String.Empty;
37         private String source = String.Empty;
38         private String surrogateKey = String.Empty;
39         private Boolean readOnly = false;
40         private Boolean isHidden = false;
41         private Int64 lastModifiedUts = 0;
```

Lastly, the source code is made available for your review. Changes can be made at this stage before the code is written to disk, methods can be added, object names can be changed. Full refactor capabilities

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localhost/A2Z/SDK/CallStack

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View SDK Object

Sandbox

ASP.NET MVC Controllers

MVC Controller Classes

ASP.NET MVC controllers are responsible for responding to requests made against an ASP.NET MVC website. Each browser request is mapped to a particular controller. In this case, these controllers return JsonResult and are only intended for Ajax calls and will return Json objects.

	Stack Key	Stack Namespace	Web Tier Namespace	Controller Name	
+	COM_CHANGE_LOG	Coronado.COM	Coronado.Portal.Areas.COM	ChangeLogController	View Response Model
+	COM_CONTACT	Coronado.COM	Coronado.Portal.Areas.COM	ContactController	View Response Model
+	COM_LOCATION	Coronado.COM	Coronado.Portal.Areas.COM	LocationController	View Response Model
-	COM_MEMBER	Coronado.COM	Coronado.Portal.Areas.COM	MemberController	View Response Model

Method Type	JsonResult	Function Name
HttpGet	GetMemberById(Guid memberId)	GetMemberById(memberId)
HttpPost	SetMember(Member dto)	SetMember(dto)
HttpPost	InsertMember(Member dto)	InsertMember(dto)
HttpPost	UpdateMember(Member dto)	UpdateMember(dto)
HttpPost	DeleteMember(Member dto)	DeleteMember(dto)

+	COM_MEMBER_EAV	Coronado.COM	Coronado.Portal.Areas.COM	MemberController	View Response Model
+	COM_MEMBER_EAV_VALUE	Coronado.COM	Coronado.Portal.Areas.COM	MemberValueController	View Response Model
+	COM_RELATIONSHIP	Coronado.COM	Coronado.Portal.Areas.COM	RelationshipController	View Response Model

In addition to the back end call stack, we also assemble building blocks for the web tier, specifically ASP.NET MVC w/Rest Services and jQuery libraries into the API

Coronado SDK

localhost/A2Z/SDK/CallStack

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Coronado Location: Coronado SDK

First, solve the problem. Then, generate the

Designer Options

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    - JavaScript Snippets
    - MarkUp Snippets
- PW-IT-SEAN-W10.CORONADO\_DB
  - View SDK Object

JS Model: Member

```
1 // Member JSON Object
2 var Member {
3   "MemberId": "",
4   "MemberType": "",
5   "MemberClass": "",
6   "DisplayName": "",
7   "CommonName": "",
8   "GivenName": "",
9   "OtherName": "",
10  "Partition": "",
11  "Source": "",
12  "SurrogateKey": "",
13  "ReadOnly": "",
14  "IsHidden": "",
15  "LastModifiedUts": ""
16 }
17
```

Close

Controller Name	
ChangeLogController	View Response Model
ContactController	View Response Model
LocationController	View Response Model
MemberController	View Response Model

Method Type	JsonResult	Function Name
HttpGet	GetMemberById(Guid memberId)	GetMemberById(memberId)
HttpPost	SetMember(Member dto)	SetMember(dto)
HttpPost	InsertMember(Member dto)	InsertMember(dto)
HttpPost	UpdateMember(Member dto)	UpdateMember(dto)
HttpPost	DeleteMember(Member dto)	DeleteMember(dto)

+	COM_MEMBER_EAV	Coronado.COM	Coronado.Portal.Areas.COM	MemberController	View Response Model
+	COM_MEMBER_EAV_VALUE	Coronado.COM	Coronado.Portal.Areas.COM	MemberValueController	View Response Model
+	COM_RELATIONSHIP	Coronado.COM	Coronado.Portal.Areas.COM	RelationshipController	View Response Model

Here you can copy JavaScript or just review what the objects look like that you are interfacing with

The screenshot shows the Coronado SDK web interface in a browser window. The address bar shows `localhost/A2Z/SDK/CallStack`. The interface includes a navigation bar with links for Apps, Jira, Character Code, HEX, and Login Required. Below this is a toolbar with buttons for Coronado, Location (set to Coronado SDK), Database Doc, Coronado SDK, Snippet Manager, and JSON Viewer. A search bar is on the right.

The main content area is divided into two panels. The left panel, titled "Designer Options", has two tabs: "DB Model" and "Project Tree". The "Project Tree" tab is active, showing a hierarchical view of the project structure. The tree includes "Project Home", "Save Project", "Open Project", "Export Code", "Coronado.COM", "Web Tier SDK", "Rest Services", "JavaScript Service Object" (highlighted), "JavaScript Snippets", "MarkUp Snippets", "PW-IT-SEAN-W10.CORONADO\_DB", and "View SDK Object".

The right panel, titled "Sandbox", contains a "JavaScript Service Library" section. It shows a code editor with the following JavaScript code:

```
Save As: "~/Areas/Rest/Scripts/COM.js"
1 var COM = {
2   COM_CHANGE_LOG: {
3     // GetChangeLogById: HttpGet
4     GetChangeLogById: function (LogId) {
5       return webPage.WebRoot + webPage.AppRoot + '/ChangeLog/GetChangeLogById?logId=' + logId
6     },
7     // SetChangeLog: HttpPost
8     SetChangeLog: function () {
9       return webPage.WebRoot + webPage.AppRoot + '/ChangeLog/SetChangeLog'
10    },
11    // InsertChangeLog: HttpPost
12    InsertChangeLog: function () {
13      return webPage.WebRoot + webPage.AppRoot + '/ChangeLog/InsertChangeLog'
14    },
15    // UpdateChangeLog: HttpPost
16    UpdateChangeLog: function () {
17      return webPage.WebRoot + webPage.AppRoot + '/ChangeLog/UpdateChangeLog'
18    },
19    // DeleteChangeLog: HttpPost
20    DeleteChangeLog: function () {
21      return webPage.WebRoot + webPage.AppRoot + '/ChangeLog/DeleteChangeLog'
22    }
23  },
24  COM_CONTACT: {
25    // GetContactById: HttpGet
26    GetContactById: function (contactId) {
27      return webPage.WebRoot + webPage.AppRoot + '/Contact/GetContactById?contactId=' + contactId
28    },
29    // SetContact: HttpPost
30    SetContact: function () {
31      return webPage.WebRoot + webPage.AppRoot + '/Contact/SetContact'
32    },
33    // InsertContact: HttpPost
34    InsertContact: function () {
35      return webPage.WebRoot + webPage.AppRoot + '/Contact/InsertContact'
36    },
37    // UpdateContact: HttpPost
38    UpdateContact: function () {
```

The SDK will also write a service layer JS file to serve as a pointer to your rest services

Example: `url: COM.COM_CONTACT.GetContactById('XXX-000-999');`

Coronado SDK

localhost/A2Z/SDK/CallStack

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Sandbox

JavaScript Snippets

Model Object

ChangeLog Object

JavaScript Snippets - Standard Page Ready Snippet

```
1 <!-- Doc
2 @section
3 <script>
4 <script>
5 $(do
6
7 );
8 // p
9 var
10
11
12
13 }
14 </script>
15
16 }
```

ChangeLog Object

Contact Object

Location Object

Member Object

Member Object

MemberValue Object

Relationship Object

ChangeLog Object

Contact Object

Location Object

Member Object

Member Object

MemberValue Object

Member Object

MemberValue Object

Object sensitive JavaScript generation as demonstrated in the next few screens

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- Rest Services
- JavaScript Service Object
  - JavaScript Snippets
- Markup Snippets

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View SDK Object

Sandbox

JavaScript Snippets

Model ObjectMember ObjectJavaScript Snippets

1<!-- Document Ready DOM/JavaScript Handler -->

2@section scripts {

3<script type='text/javascript' src='../Areas/Rest/Scripts/COM.js'></script>

4<script>

5\$(document).ready(function () {

6pageConfig();

7});

8// Page Configuration

9var pageConfig = function () {

10// Add to Breadcrumb

11addBreadcrumb('<a href="#">XXX</a>', false);

12addBreadcrumb('Request Details', true);

13}

14</script>

15}

16

- Standard Page Ready Snippet

Select a Modeled Snippet...

- Standard Ajax GET Snippet

- Standard Ajax POST Submit Handler

- JSON Object POST Submit Handler

- Form Binding w/Bootstrap Markup

- DataTable Binding

Select MiscJS Snippet...

- Standard Page Ready Snippet

- Toastr Snippet

- SlimScroll Snippet

- Dynamic Select Options

- Setting Element Heights

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- DataTable Binding

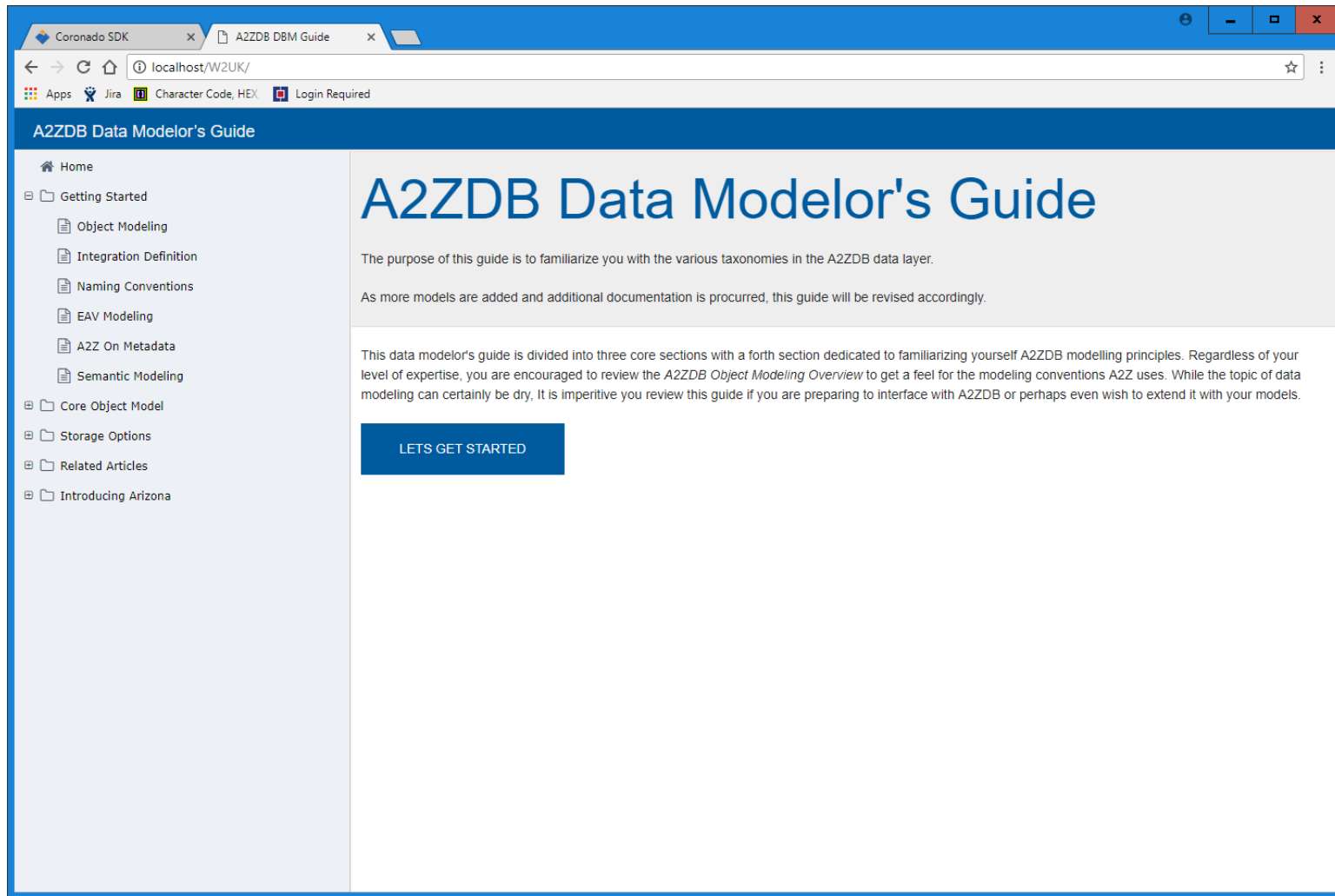
```

1 <!-- Data Grid Markup -->
2 <div id="dataGridContainer">
3   <table id="dataGrid" class="table table-striped table-bordered"></table>
4 </div>
5
6 var gridData = [];
7
8 // Member DataTable Binding
9 var populateDataGrid = function() {
10   $('#dataGridContainer').html('<table id="dataGrid" class="table table-striped table-bordered"></table>');
11   dtGrid = $('#dataGrid').DataTable({
12     //paging: false,
13     //bFilter: false,
14     //bSort: false,
15     //bInfo: false,
16     data: gridData,
17     columns: [
18       { title: 'Member Id', data: 'MemberId' },
19       { title: 'Member Type', data: 'MemberType' },
20       { title: 'Member Class', data: 'MemberClass' },
21       { title: 'Display Name', data: 'DisplayName' },
22       { title: 'Common Name', data: 'CommonName' },
23       { title: 'Given Name', data: 'GivenName' },
24       { title: 'Other Name', data: 'OtherName' },
25       { title: 'Partition', data: 'Partition' },
26       { title: 'Source', data: 'Source' },
27       { title: 'Surrogate Key', data: 'SurrogateKey' },
28       { title: 'Read Only', data: 'ReadOnly' },
29       { title: 'Is Hidden', data: 'IsHidden' },
30       { title: 'Last Modified Uts', data: 'LastModifiedUts' },
31     ],
32     columnDefs: [{
33       targets: 0,
34       searchable: true,
35       orderable: true,
36       //className: "text-center",

```

// End of Screen Captures of Working SDK Prototype





My Prototype of W2UI – Simple Documentation. I am looking into creating a state factory to manage how your containers unfold based on user preference. I am also going to switch over to css sensitive SVG iconography with png fallback as well as a theme engine that supports (MS Cobalt, Amazon, Google Material, GitHub, Bootstrap and Twitter styles) as well as design templates that are maintained in a CMS (Content Management System). Basically, eventually the CMS component will spit out docs like this with even more component options as well as serve as the basis for auto generated application interfaces using pure JSON. Even cooler is these docs will be able to stand alone with static json options or run with live db connections via rest. Everything you saw in the SDK is going into w2ui

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## A2ZDB Object Modeling Principles

Document Revision: 1.0 - 03/30/2018  
Author(s): Sean McNeill

The A2Z object model is first and foremost designed for an enterprise perspective that can be described as a holistic top-down logical model commonly referred to as *Entity Attribute Value* or EAV model. What this means is the model is created with a different, perhaps more abstract approach than one would likely encounter with a traditional *View Integration Model*. As a result, it allows you to sustain and build upon your domain taxonomy from a holistic perspective that will provide maximum scalability and efficiency into your problem domain through natural software accreation and data federation.

The benefit of using this top-down approach is how well the model itself flexes toward your domain of interest without the need for refactoring callstacks into data storage mediums because a column, table, property or new document was added or changed. We have all experienced this problem one time or another. The reason this benefit can be realized is because the physical objects and attributes that transport the data do not describe the data the same way one might find in traditional *View Integration Models*.

The following example illustrates this EAV principle at it's core.

### Top-Down Logical Model

### EAV: Father of All Object Models

- Everything is an "ENTITY"
- All "ENTITY" data has an "ENTITY\_TYPE"
- An "ENTITY" can have a "RELATIONSHIP" with another "ENTITY"
- All "RELATIONSHIPS" have a "RELATIONSHIP\_TYPE"
- An "ENTITY" can have one or more "ATTRIBUTES"
- An "ATTRIBUTE" has an "ATTRIBUTE\_TYPE"
- An "ATTRIBUTE" can have one or more "ATTRIBUTE\_VALUES"

Reference: [EAV Modeling](#) for a broader understanding and appeal.

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- CMS - Content Management System Model
- COM - Community Object Model
- DEV - DevOps Object Model
- DNA - Dashboard Normilization and Archive
- EAV - Entity Attribute Value Object Model
- GEO - Geographic Data Object Model
- MDR - Metadata Repository Object Model
- MSG - Message Delivery Object Model
- OPS - Operations & Management Object Model

Storage Options

Related Articles

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COM: Community Object Model

The Community Object Model is a core taxonomy schema as this is where member's of the community are identified, archetyped and extended. The Community Object Model is the who's who of A2ZDB taxonomy. For an in-depth review of this model, please refer to the article titled "Anatomy of a Taxonomy Schema". Like metadata, Member data is often extended into just about every other taxonomy schema A2ZDB supports.

```
graph TD
    COM_OBJECT_NOTATION --> COM_MEMBER
    COM_MEMBER --> COM_RELATIONSHIP
    COM_MEMBER --> COM_MEMBER_DOCUMENT
    COM_MEMBER --> COM_CONTACT
    COM_MEMBER --> COM_ROLE
    COM_MEMBER --> COM_LOCATION
    COM_MEMBER --> COM_STRUCTURE
```

**COM\_OBJECT\_NOTATION**

- NOTATION\_ID
- MEMBER\_ID (FK)
- NOTATION\_TYPE (FK)
- NOTATION\_CLASS
- NOTATION\_LEXICON
- CLASS\_TYPE
- JSON\_STRING
- PRIVACY\_SETTING
- IS\_READ\_ONLY
- IS\_HIDDEN
- LAST\_MODIFIED\_UTC
- OWNER\_ID

**COM\_MEMBER**

- MEMBER\_ID
- MEMBER\_TYPE (FK)
- MEMBER\_CLASS
- DISPLAY\_NAME
- COMMON\_NAME
- GIVEN\_NAME
- OTHER\_NAME
- PARTITION
- SOURCE
- PRIVACY\_SETTING
- IS\_READ\_ONLY
- IS\_HIDDEN
- LAST\_MODIFIED\_UTC
- OWNER\_ID (FK)

**COM\_RELATIONSHIP**

- RELATIONSHIP\_ID
- RELATED\_FROM\_MEMBER (FK)
- RELATED\_TO\_MEMBER (FK)
- RELATIONSHIP\_TYPE (FK)
- RELATIONSHIP\_CLASS
- RELATIONSHIP\_LEXICON
- IS\_ACTIVE
- START\_UTC
- END\_UTC
- LAST\_MODIFIED\_UTC

**COM\_MEMBER\_DOCUMENT**

- DOCUMENT\_ID
- MEMBER\_ID (FK)
- DOCUMENT\_TYPE (FK)
- DOCUMENT\_CLASS
- DOCUMENT\_STATUS
- DOCUMENT\_TITLE
- DOCUMENT\_WEB\_PATH
- DOCUMENT\_MARK\_UP
- DOCUMENT\_AUTHOR
- NOTATION\_ID (FK)
- CONTAINER\_ID (FK)
- PRIVACY\_SETTING
- IS\_READ\_ONLY
- IS\_HIDDEN
- LAST\_MODIFIED\_UTC
- OWNER\_ID

**COM\_CONTACT**

- CONTACT\_ID
- MEMBER\_ID (FK)
- CONTACT\_TYPE (FK)
- CONTACT\_CLASS
- CONTACT\_LEXICON
- CONTACT\_VALUE
- PRIVACY\_SETTING
- IS\_READ\_ONLY
- IS\_HIDDEN
- LAST\_MODIFIED\_UTC
- OWNER\_ID

**COM\_ROLE**

- ROLE\_ID
- MEMBER\_ID (FK)
- ROLE\_TYPE (FK)
- ROLE\_CLASS
- ROLE\_LEXICON
- SHORT\_DESC
- SURROGATE\_KEY
- IS\_ACTIVE
- START\_UTC
- END\_UTC
- LAST\_MODIFIED\_UTC

**COM\_LOCATION**

- LOCATION\_ID
- MEMBER\_ID (FK)
- LOCATION\_TYPE (FK)
- LOCATION\_CLASS
- LOCATION\_LEXICON
- COUNTRY\_CODE
- REGION\_CODE
- METRO\_CODE
- POSTAL\_CODE
- MUNICIPALITY
- LOCATION\_LINE1

**COM\_STRUCTURE**

- STRUCTURE\_ID
- MEMBER\_ID (FK)
- LOCATION\_ID (FK)
- STRUCTURE\_TYPE (FK)
- STRUCTURE\_CLASS
- STRUCTURE\_LEXICON

Integration Definition

Member Metadata Repository

- MDR\_MEMBER
- MDR\_MEMBER\_TAG

Community Object Model

- COM\_MEMBER
- COM\_CONTACT
- COM\_LOCATION
- COM\_RELATIONSHIP
- COM\_ROLE
- COM\_MEMBER\_DOCUMENT
- COM\_OBJECT\_NOTATION

Related Definitions

Metadata Taxonomy Definitions

- Member Entity Taxonomy
- Contact Entity Taxonomy
- Location Entity Taxonomy

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Storage Options

- Relational Data Storage Options**
- Dimensional Storage Options
- Hybrid Storage Options

Related Articles

- Anotomy of the Community Object Model
- Keeping Geography Current
- Working with Relational & Dimensional Objects

Introducing Arizona

- An Introduction to Arizona

A2Z Relational Database Support

Commentary required