Using CRMRestBuilder to query CRM ODATA Service

Objective: Learn how to format requests to retrieve data using a REST endpoint (WebApi)

Goal Description

Use CRMRestBuilder to construct a query to get additional data from CRM

Step1 Add CRMRestBuilder to CRM

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| 1 | Download CRMRestbuilder from <https://github.com/jlattimer/CRMRESTBuilder>  Go to the Releases page and download the solution file below. |
| 2 | Install the solution file into your CRM Trial Instance. |
| 3 | Open CRMRestBuilder from the CRM interface |
| 4 | Construct a query against the Module7Test entity to return the "createdon" date for the current entity.  Set it up to generate a Xrm.WebApi output format. |
| 5 | Copy the generated code and go back to Module7Lab A, the Showdataparams.js file. |
|  | Insert the copied code just before "oTable.appendChild(oTBody);"  Add an additional row to the table with the createdon date for the current entity. Test it. |
|  | Replace Xrm.WebApi with parent.Xrm.WebApi. Test again |

Step 2: Sending get requests to the service

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| 1 | In a different tab/window navigate to Odata.org. Follow the getting started link    The information here will provide you with a quick start to creating clients that can format requests to Odata services. Have a quick read through the basic tutorial area |
| 2 | Back at the global navigation bar at the top of the page under the developers menu item, follow the link named reference services. This area provides various "test" services that comply with different versions of the ODATA protocol. We will be using version 4 |
| 3 | Click on the run in postman link |
| 4 | Postman should open. In the window on the left hand side you will see a series of requests that have been added for you. |
| 5 | The first request issues a get request to retrieve data from an entity called people. Look at the URL of the request and then click on the Send button. You should receive a response similar to the listing seen below. |
| 6 | If you click on the Headers tab you will see that the content-type has been set to application/json |
| 7 | Load the second saved request named Requesting Data/Requesting Single Entity by ID. Send the request and notice that we get the details of just one person. Using the documentation try to modify the existing request so that the only attribute we are asking for is the Emails. |
| 8 | Investigate some of the other requests in particular ones that include the Odata filters $select, $filter and $top. Feel free to make changes to these and view the resulting output. |
| 9 | Using postman to interact with the Dynamics 365 WebAPI endpoint takes a bit more setting up. The link below takes you through the process, but you will need an Azure subscription to set up OAuth on Azure.  http://jopx.blogspot.co.uk/2017/06/using-postman-and-dynamics-365-web-api.html |

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