# Contact Editor Creation steps

**Dynamics CRM Development Task** 

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# ÍNDICE

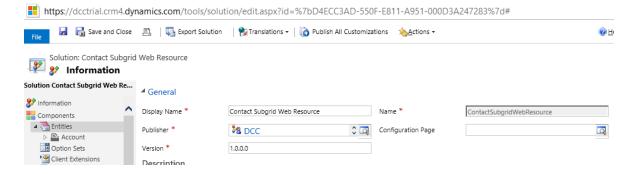
1.	Introduction	3
	CRM	
3.	Visual Studio 2015	3
4.	The Task	3
	4.1 Task Level 1	4
	4.2 Task Level 2	
	4.3 Task Level 3	

## 1. Introduction

The objective of this document is to summarize the steps I followed to complete the Dynamics CRM Task.

### 2. CRM

- I created my own Dynamics 365 trial environment.
- I created a solution "" with my own publisher DCC "dcc\_".
- I added the Account form to this solution.



### 3. Visual Studio 2015

- I created a new solution in VS with a CRM Web Resource Project, where I created the .html,
   .js, .css.
- I added JQuery using NuGet Package Manager.
- I used Developer Extensions Tool to deploy these component into CRM.

### 4. The Task

Although the task has three levels, but I did not create three different html web resources. I create just one, and I added the functionality required in the following levels.

### Contacts



- The contacts full name is a hyperlink to open the contact record.
- First Name, Last Name and Preferred Contact Method are editable fields, and with the bottom Save the changes can be saved to update the contact information.
- Last Name field is required; an alert message appears if you try to save a contact without this field filled.
  - The + button allows to create a new contact record using the Quick Create form.
- Preferred Contact Method is multilingual, its values will be shown always in the user CRM selected language.

### 4.1 Task Level 1

These are the steps I followed to create the Contact editor web resource.

Create an HTML Web Resource that:

### • Can be placed on an Account Form :

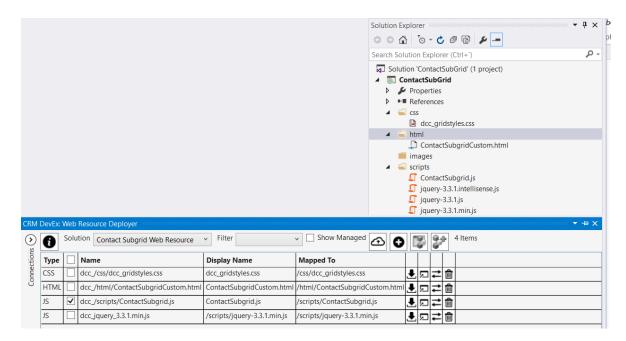
- I inserted a new Tab, new section, and a web resource into the Account main form.
- Shows a grid of Contacts that are associated with the parent Account (a similar UI Style to the standard sub-grid):
  - o I created a table in html.
  - Using javascript and web API, I created a function to retrieve the contacts related with the current account. (function GetContact(successCallback))
  - I created a .css file, trying to copy the CRM styles.

### Allows selecting and opening of a contact form from the grid :

- Using javascript, each cell in the column Full Name is a hyperlink to open the contact.
- Allows adding new contacts using a '+' button.
  - I added an image as a button to open Contact Quick Create Form. When the quick create form is opened, the parent account field is informed.
  - I used an image that already exists in CRM.

### Create a Visual Studio solution to deploy the HTML Web Resource

 I created a solution in VS, and I used Developer Extensions Tools to deploy each web resource into my CRM solution.

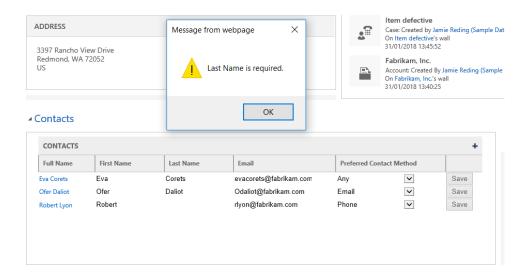


### 4.2 Task Level 2

I modified the web resource created for the level 1.

Create an HTML Web Resource that additionally:

- Allows inline grid editing of the fields:
  - First Name
  - Last Name
  - Preferred Contact Method (As a drop down)
  - I update my javascript function to retrieve these fields.
  - I added new columns in the html table and edit their properties.
  - I created a function to update entities with javascript and web API.( function UpdateEntity(clientURL, entityId, entityType, entityTobeUpdated, apiVersion) {)
  - To show Preferred Contact Method I created a <select> component. To set the selected value I use the retrieved data.
- The Last Name must be a mandatory field and cannot be blank.
  - I created a javascript validation to control the Last Name is filled before the update can be saved.



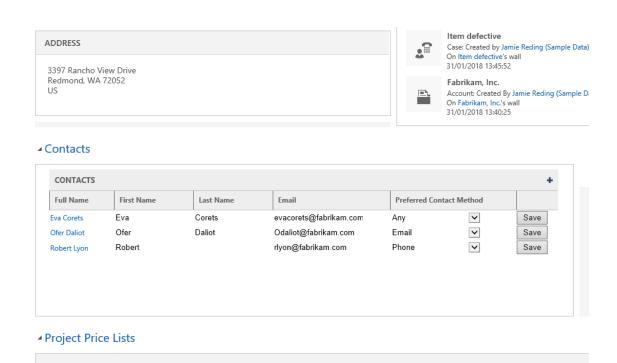
### 4.3 Task Level 3

I modified the web resource created for the level 2.

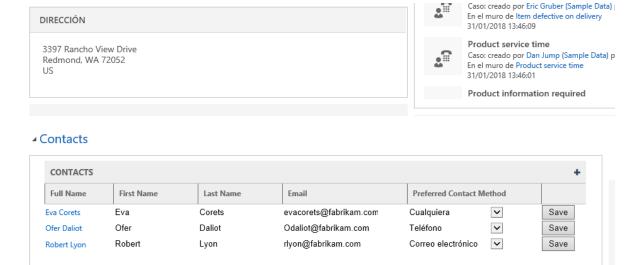
Create an HTML Web Resource that additionally:

- Load option set values and labels from the CRM Metadata rather than hard code
- I created a javascript function to retrieve the metadata of the option set. Another function get the information retrieved and create a html <select> component dynamically, using the current crm user language. (function GetMetadataByName(entityLogName, attLogName, successCallback))
- Provide Multi-Language support for English and Spanish (Grid Labels and Drop Down Values etc.) based on the user's language preference
- The function that creates the select component uses the UserLocalizedLabel, to show the labels in the user language.

### **English:**



### Spanish:



Note: I did not translate the title of the columns or the value of the button Save, although the information is available in the javascript code.