



MVC Web Applications Integration with Business Central SOAP

Business Central supports two types of web services: SOAP and OData. Web services are a lightweight, industry-standard way to make application functionality available to a variety of external systems and users.

SOAP web services allow full flexibility for building operation-centric services. They provide industry standard interoperability.

In this document, we will share information around the following 4 scenarios.

Scenario 1: Fetch all **Companies** names using Business Central Web Services List and display results on a Web Page.

Scenario 2: Read Item List from Business Central Web Services and show results on Web Page.

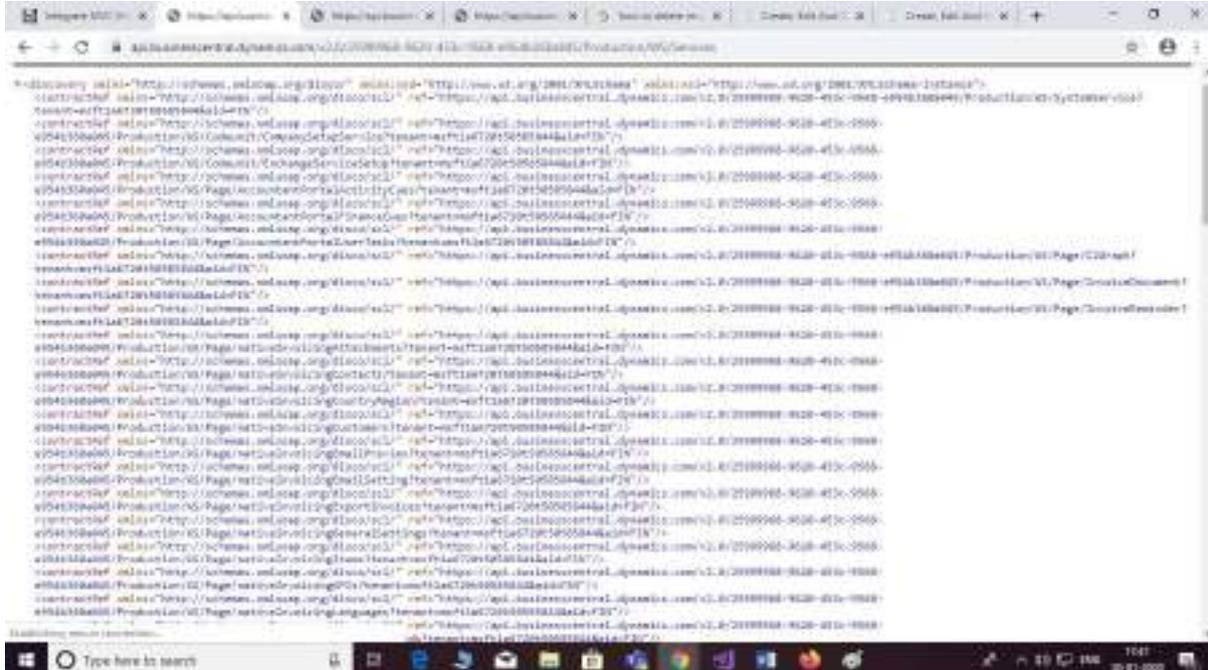
Scenario 3: Insert a New Item from web page into Business Central Item Table via BC Webservice.

Scenario 4: Insert a New Item list from SQL Server database table into Business Central (avoiding duplicacy) using Web and display result on web page.



Below link returns the list of Business Central Soap Web Services available:

<https://api.businesscentral.dynamics.com/v2.0/25999968-9620-453c-9568-e954b360a045/Production/WS/Services>



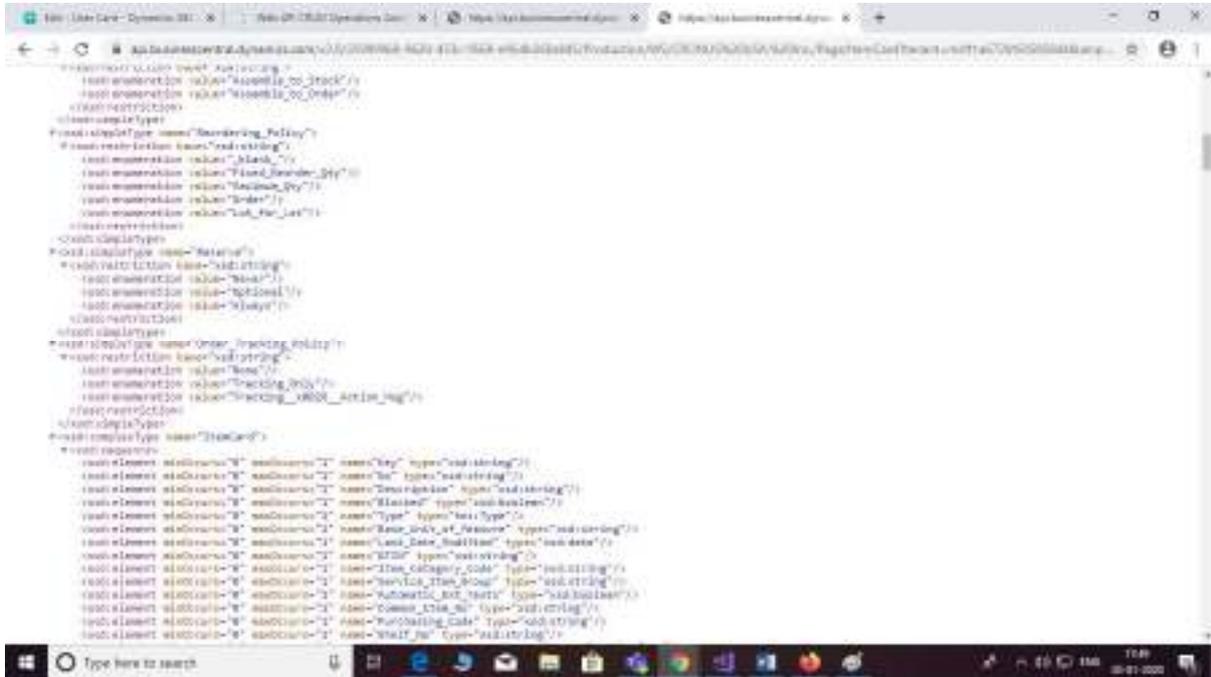
Companies: This web-service returns all the companies

<https://api.businesscentral.dynamics.com/v2.0/25999968-9620-453c-9568-e954b360a045/Production/WS/SystemService?tenant=msft1a6720t50585844&aid=FIN>

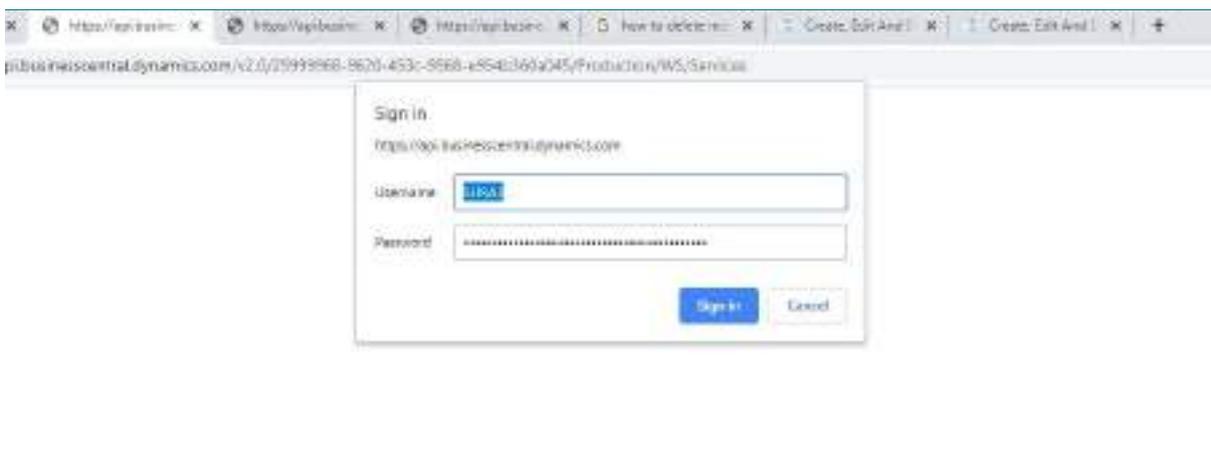


Item Card:

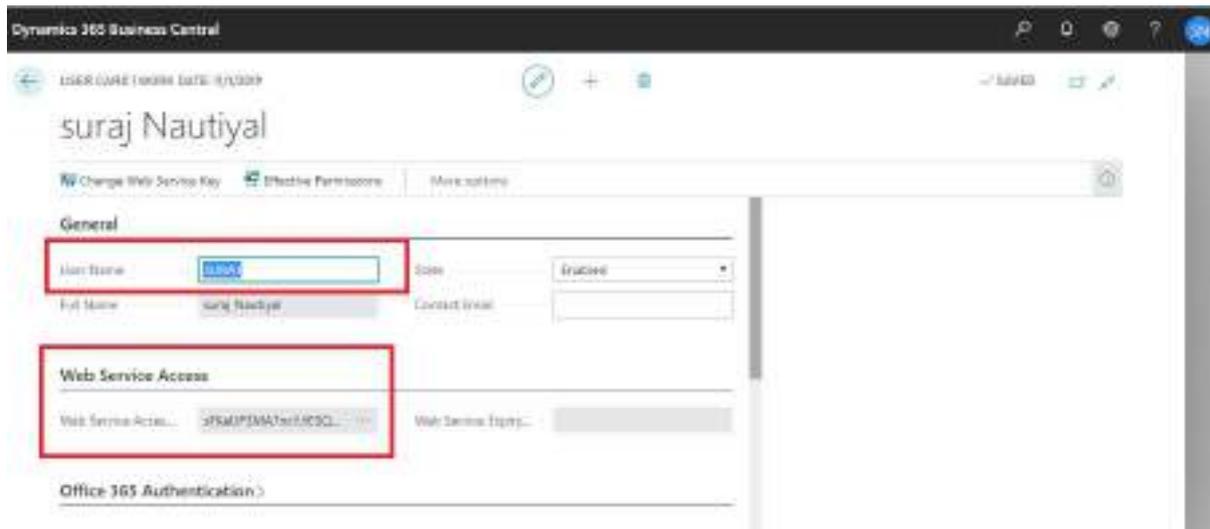
<https://api.businesscentral.dynamics.com/v2.0/25999968-9620-453c-9568-e954b360a045/Production/WS/CRONUS%20USA,%20Inc./Page/ItemCard?tenant=msft1a6720t50585844&aid=FIN>



Note: To access Business Central Web service you need to supply Business Central User name in username and for password you can use Web service access key.

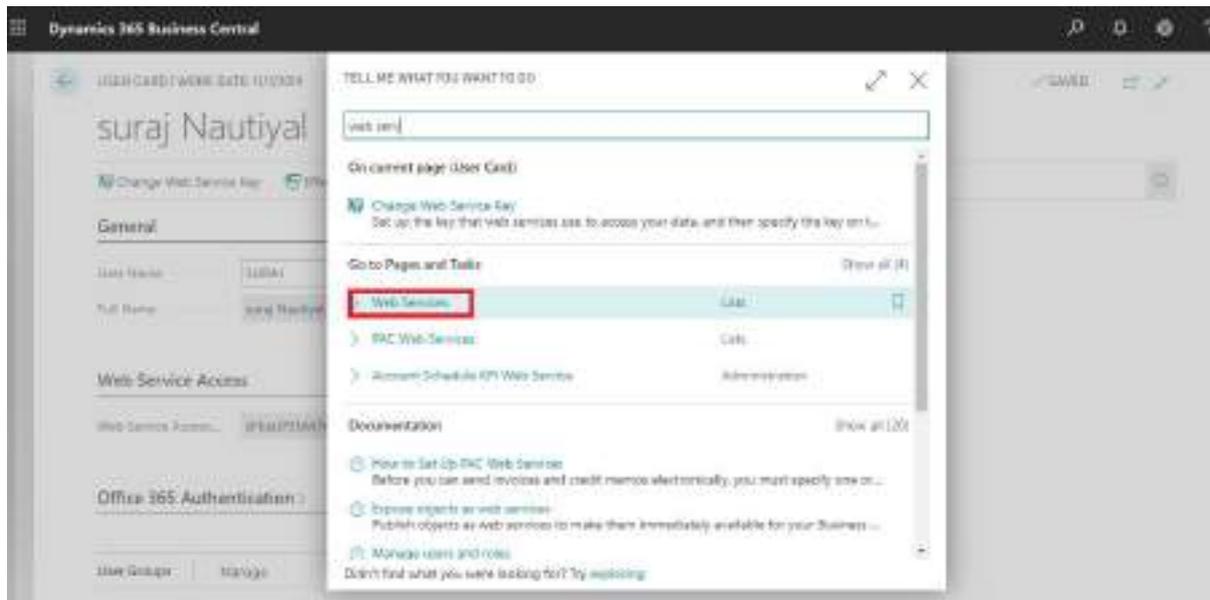


You can find Business Central **user name and web service** access key from business central User section. (Search user in Business Central)



How to find Web Services in Business Central?

Step 1: Open Business Central and search Web Services





Step 2: Select 'item list' and 'item card' web service or any other services that you need from Web Service section.

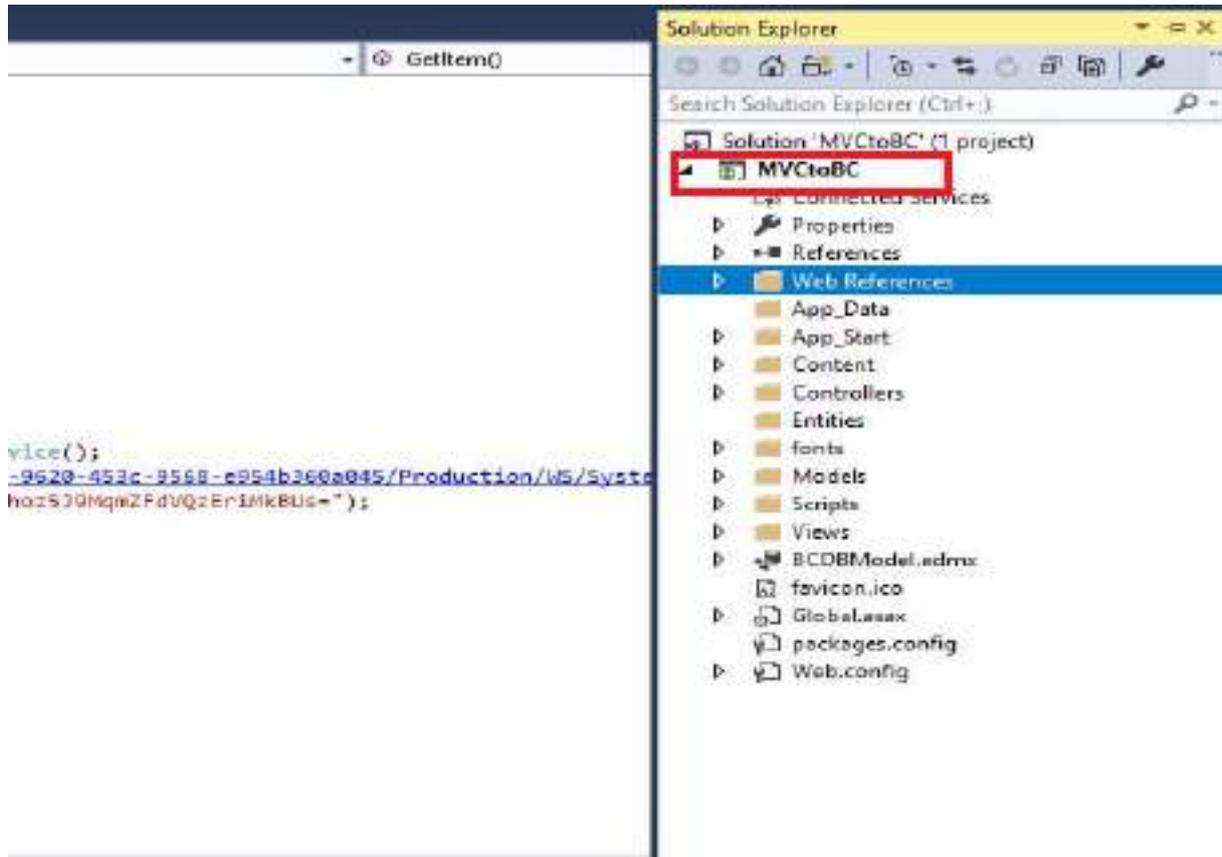
Client Type	Object ID	Object Name	Service Name T	Is Test	Pub.	ODATA
Page	1320	ErclTemplateCompanyInfo	ErclTemplateViewCompanyInf...			HTTP
Page	2200	Sales Invoice Document API	Invoice Document			https
Page	2201	Sales Invoice Reminder API	InvoiceReminder			https
Page	2400	Item Categories	Item_Categories			https
Page	30	Item Card	ItemCard			https
Page	5410	Items	ItemEntity			https
Page	31	Item List	ItemList			https
Page	65	Jobs	Job List			https
Page	1007	Job Planning Lines	Job Planning Lines			https
Page	1002	Job Task Lines	Job Task Lines			https
Page	2820	naWebInvoicingAttachments	naWebInvoicingAttachments			https
Page	2823	naWebInvoicingContacts	naWebInvoicingContacts			https
Page	2385	countryRegions	naWebInvoicingCountryRegion			https
Page	2801	naWebInvoicingCustomers	naWebInvoicingCustomers			https
Page	2825	naWebInvoicingEmailPreview	naWebInvoicingEmailPreview			https

Client Type	Service Name T	Is Test	Pub.	ODATA URL	ODATA URL	SOAP URL
Page	InvoiceDocument			https://api.businesscentral.dyn...	https://api.businesscentral.dyn...	https://api.businesscentral.dyn...
Page	InvoiceReminder			https://api.businesscentral.dyn...	https://api.businesscentral.dyn...	https://api.businesscentral.dyn...
Page	Item_Categories			https://api.businesscentral.dyn...	https://api.businesscentral.dyn...	https://api.businesscentral.dyn...
Page	ItemCard			https://api.businesscentral.dyn...	https://api.businesscentral.dyn...	https://api.businesscentral.dyn...
Page	ItemEntity			https://api.businesscentral.dyn...	https://api.businesscentral.dyn...	https://api.businesscentral.dyn...
Page	ItemList			https://api.businesscentral.dyn...	https://api.businesscentral.dyn...	https://api.businesscentral.dyn...
Page	Job List			https://api.businesscentral.dyn...	https://api.businesscentral.dyn...	https://api.businesscentral.dyn...
Page	Job Planning Lines			https://api.businesscentral.dyn...	https://api.businesscentral.dyn...	https://api.businesscentral.dyn...
Page	Job Task Lines			https://api.businesscentral.dyn...	https://api.businesscentral.dyn...	https://api.businesscentral.dyn...
Page	naWebInvoicingAttachments			https://api.businesscentral.dyn...	https://api.businesscentral.dyn...	https://api.businesscentral.dyn...
Page	naWebInvoicingContacts			https://api.businesscentral.dyn...	https://api.businesscentral.dyn...	https://api.businesscentral.dyn...
Page	naWebInvoicingCountryRegions			https://api.businesscentral.dyn...	https://api.businesscentral.dyn...	https://api.businesscentral.dyn...
Page	naWebInvoicingCustomers			https://api.businesscentral.dyn...	https://api.businesscentral.dyn...	https://api.businesscentral.dyn...
Page	naWebInvoicingEmailPreview			https://api.businesscentral.dyn...	https://api.businesscentral.dyn...	https://api.businesscentral.dyn...
Page	naWebInvoicingEmailSetting			https://api.businesscentral.dyn...	https://api.businesscentral.dyn...	https://api.businesscentral.dyn...



Create project in Asp.net MVC

Step 1: Create a New MVC web application Project “MVctoBC”



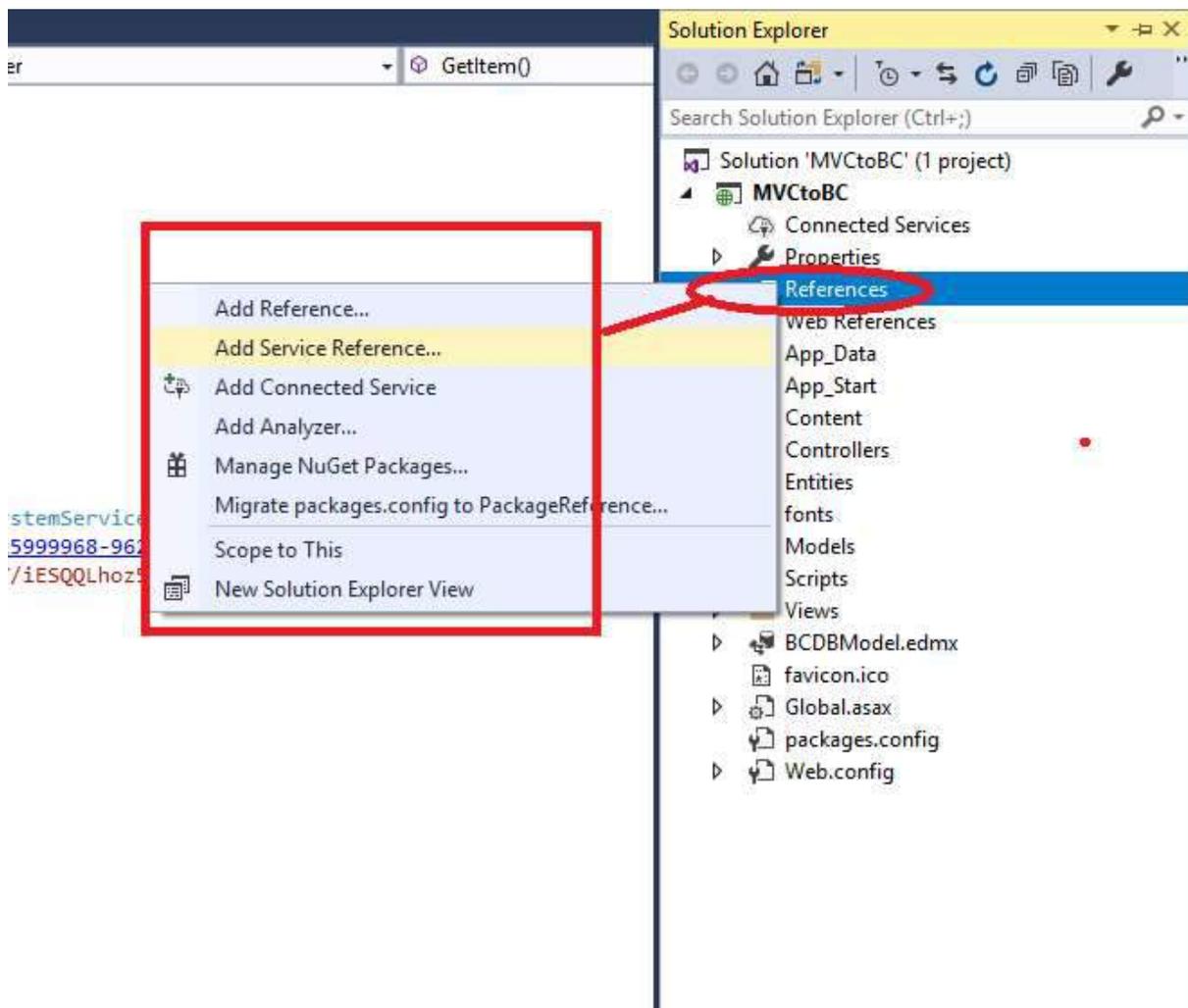


Step 2: Add a Web Reference to Services.

The screenshot displays the Visual Studio IDE. On the left, the code editor shows a partial function call: `ervice();` followed by a URL: `i8-9620-453c-9568-e954b360a045/Production/WS/SystemServiceWS?Lhoz5J9MqmZFdVQzEriMkBUS=");`. On the right, the Solution Explorer shows a project named 'MVCtoBC'. Under the 'References' folder, there is a 'Web References' folder which is highlighted with a red box. This folder contains five items: 'ItemCardSoap' (3), 'ItemCardWS', 'ItemListSoap' (2), 'ItemListWS', and 'SystemServiceWS' (1). The 'Web References' folder is also expanded to show its contents.

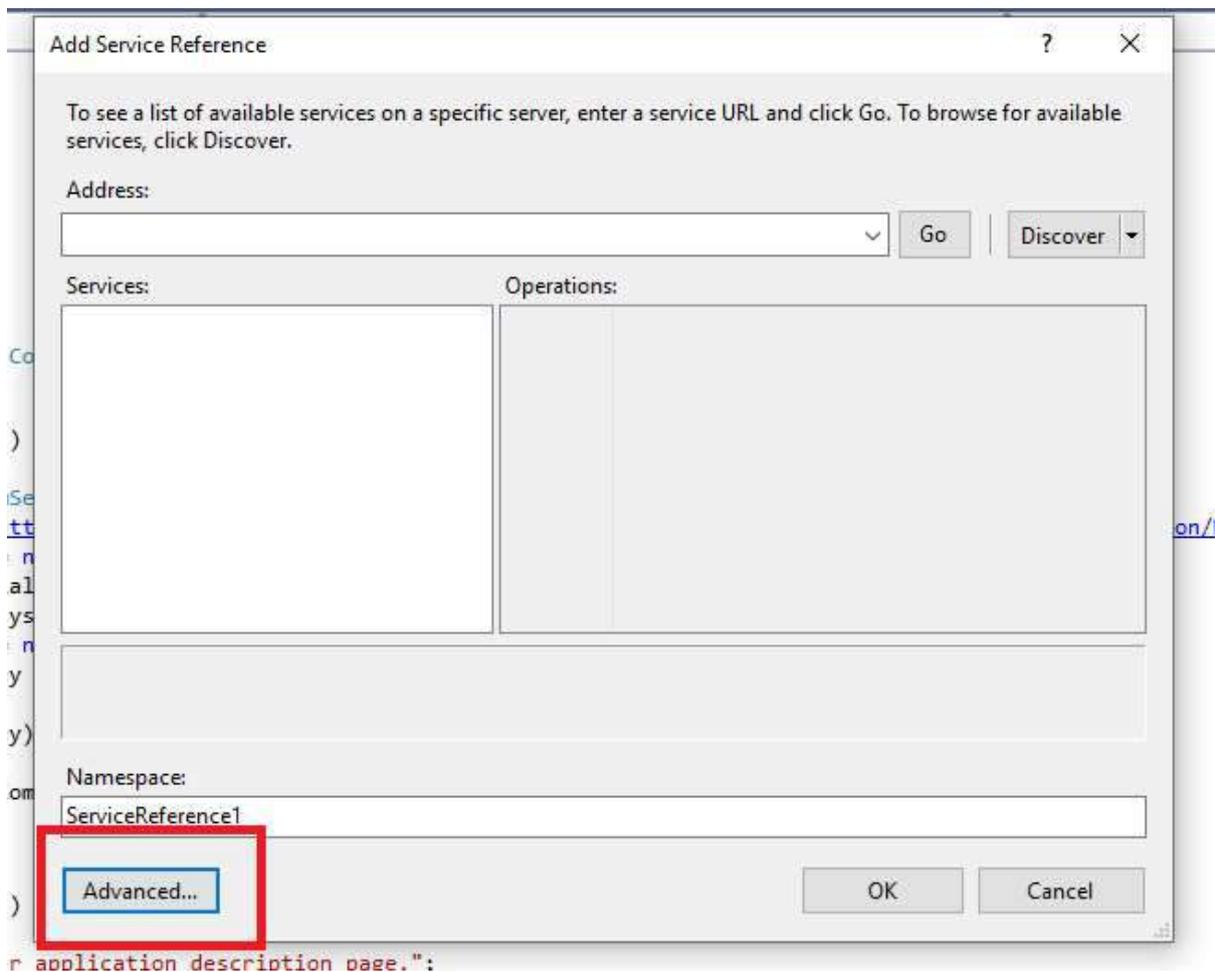


Step 2.1: Add Web Reference, go to Solution Explorer, right click on **Reference**, and select **Add Service Reference -> Select Advanced option -> Select Add Web Reference** option. Then enter your Web Service URI and press enter. You can enter your web reference name.



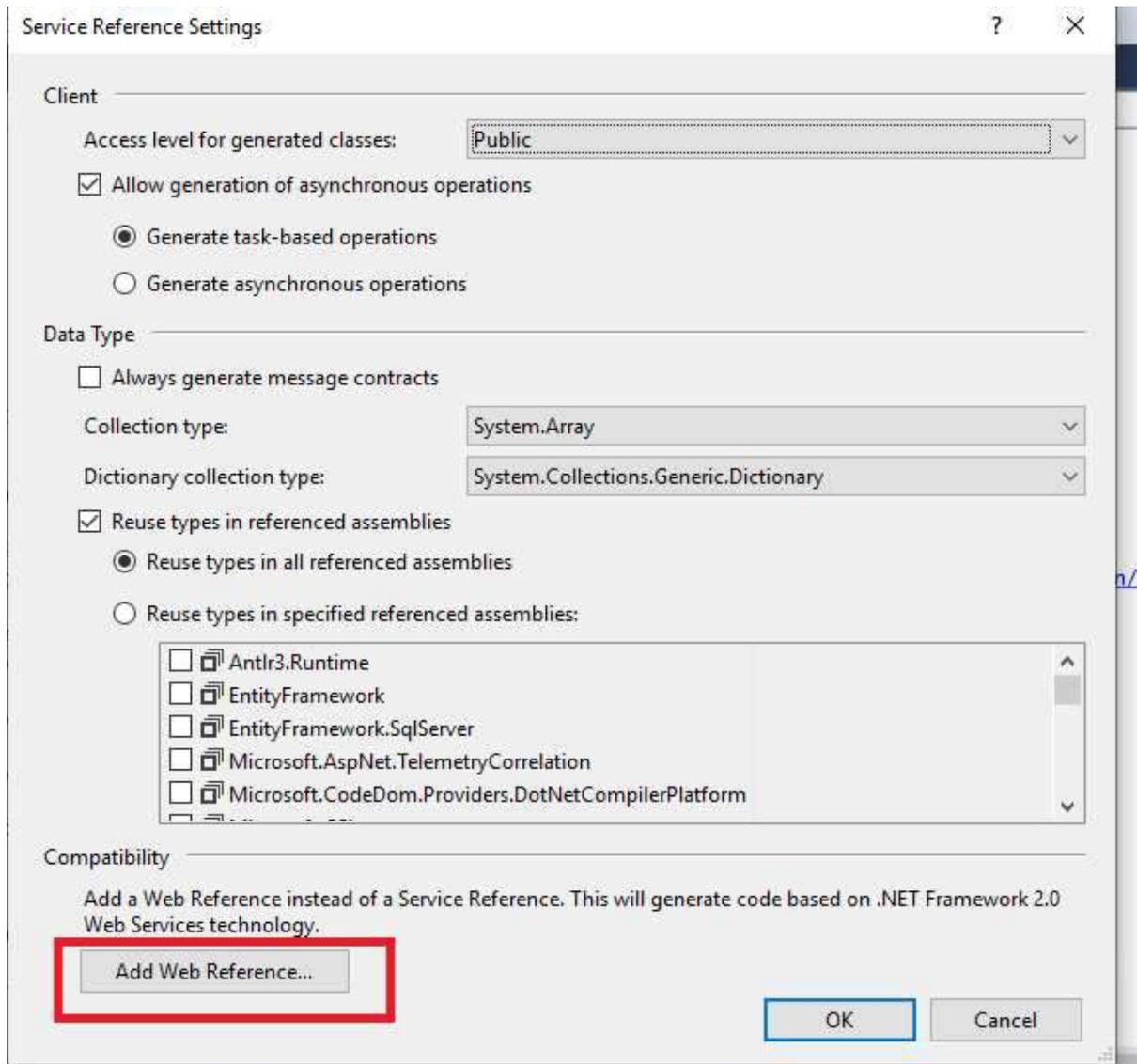


- **Now Select Advanced Option.**



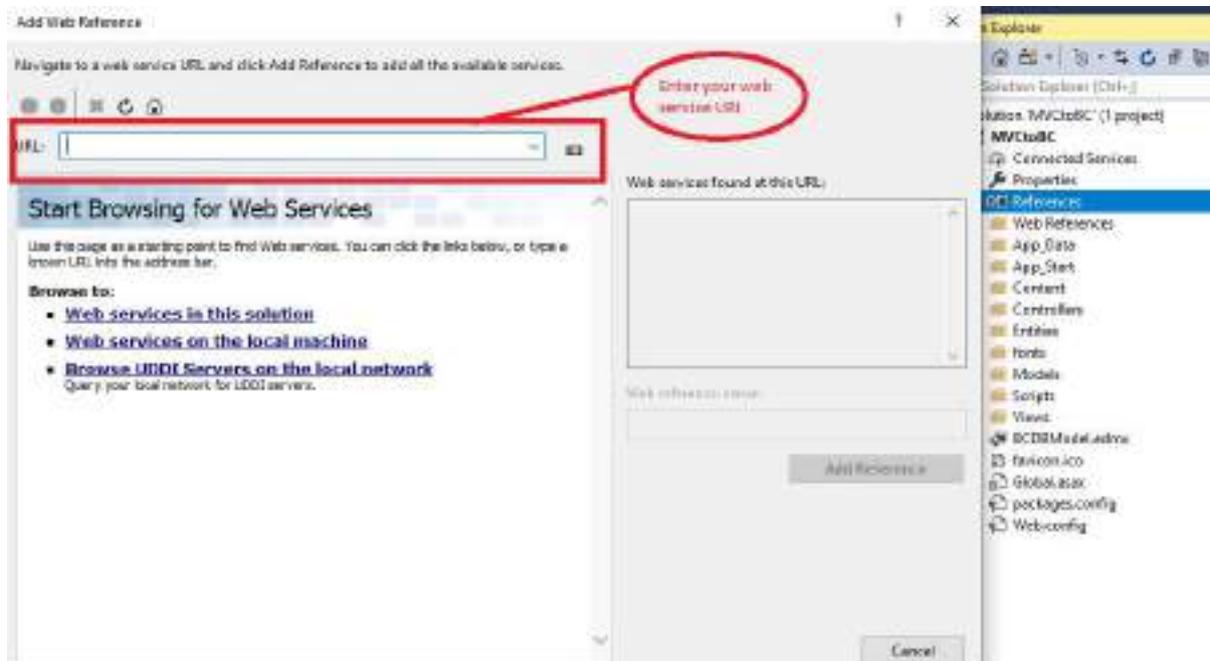


- Select Add Web reference option

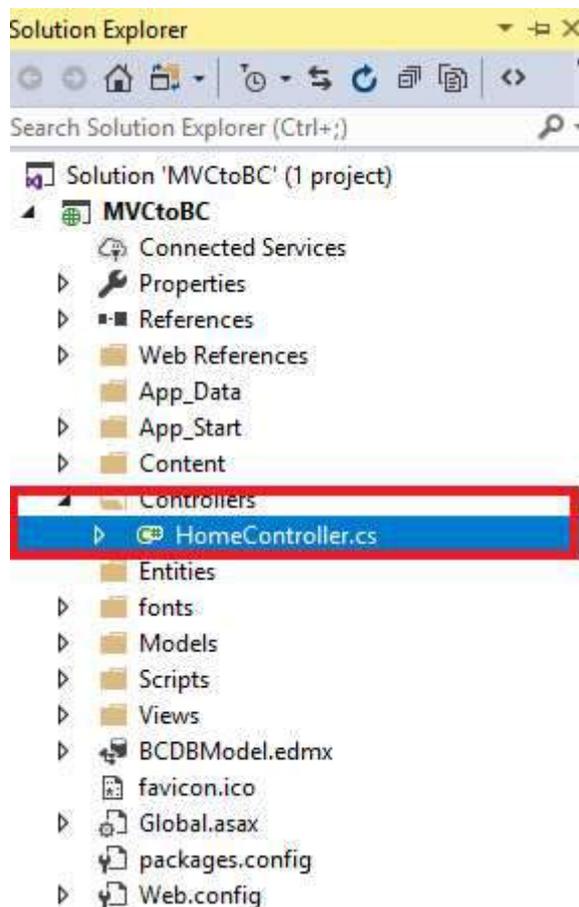


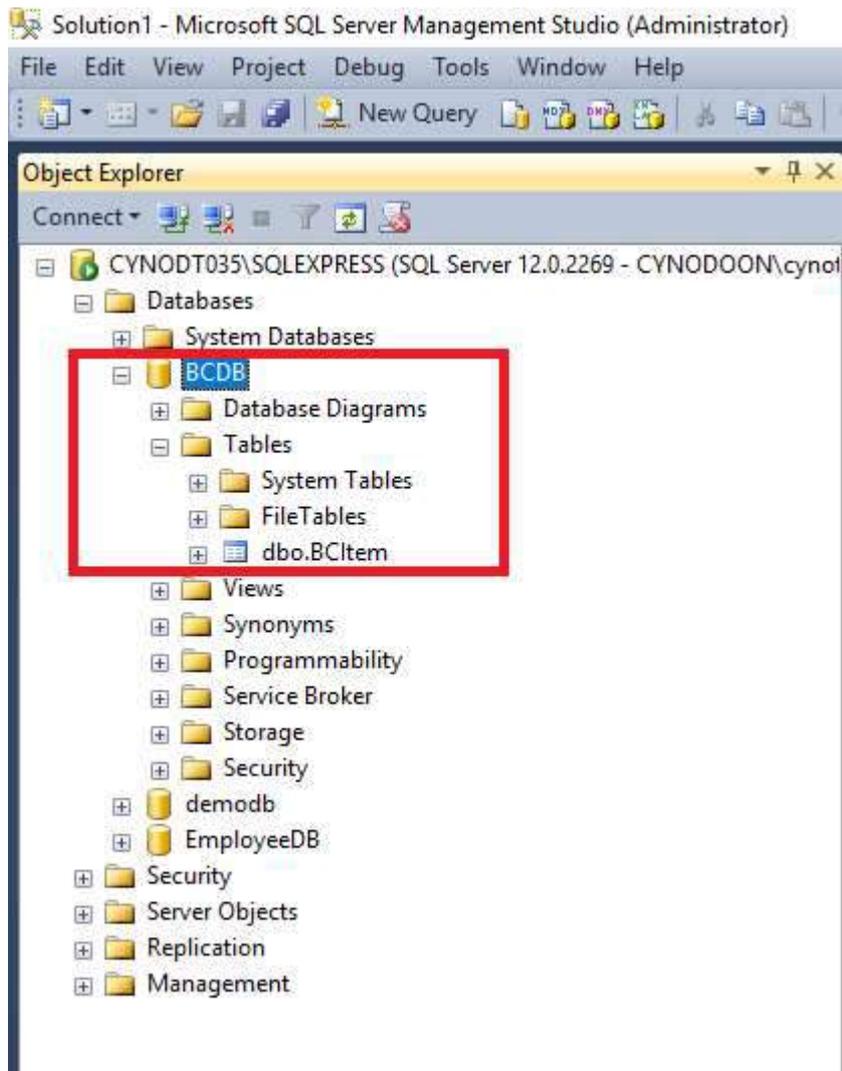


- Enter your Web Service URI in URI section and press enter or arrow key.



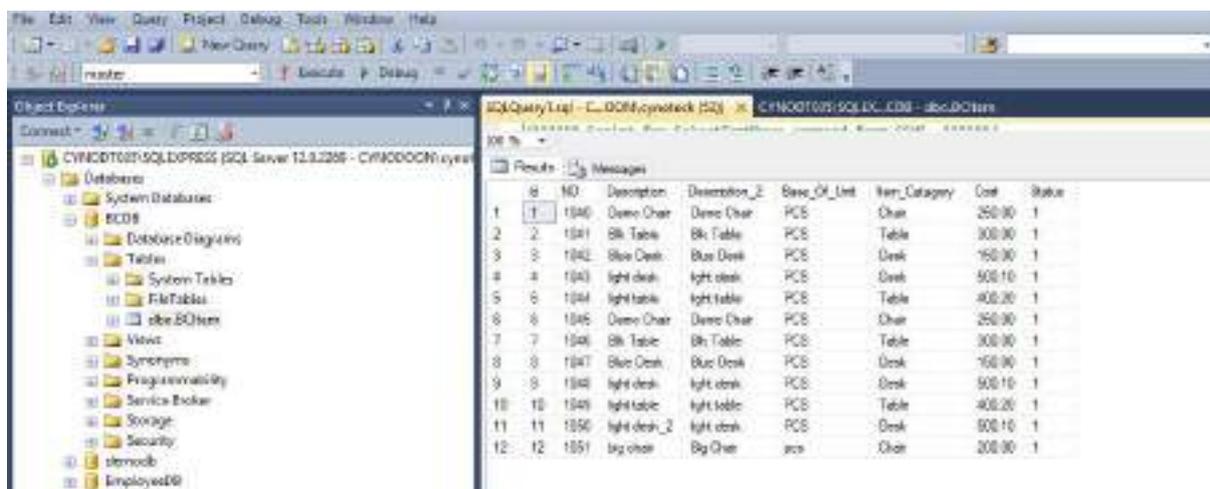
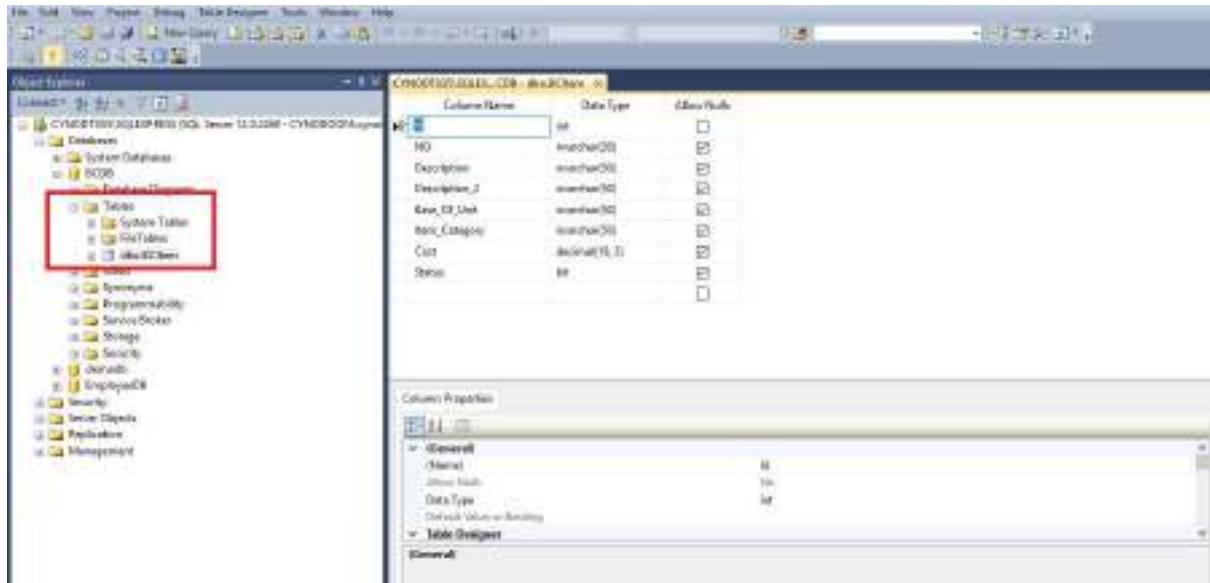
Step 3: Add code in **HomeController** to get BC companies using web services.





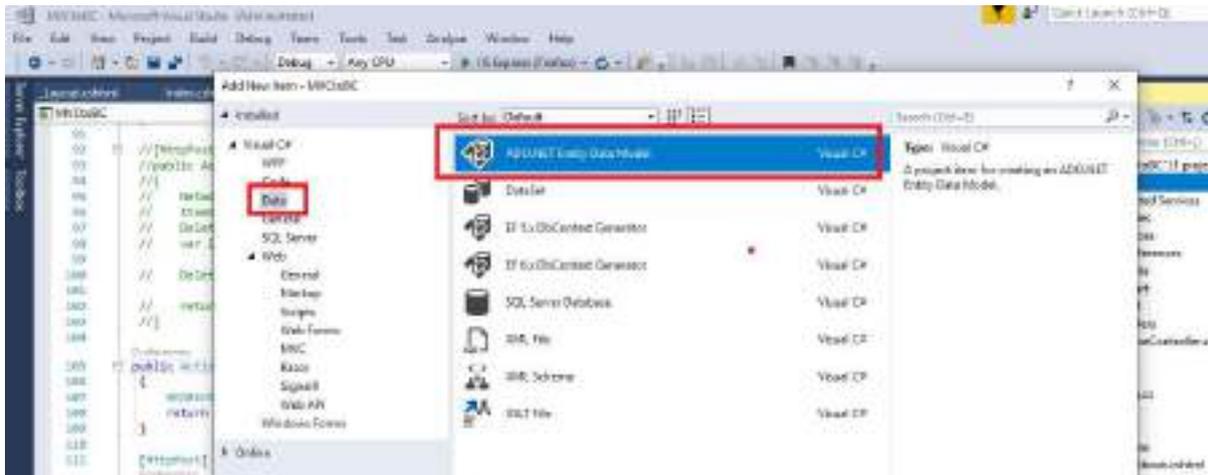


Step 8.1: Create BCItem Table

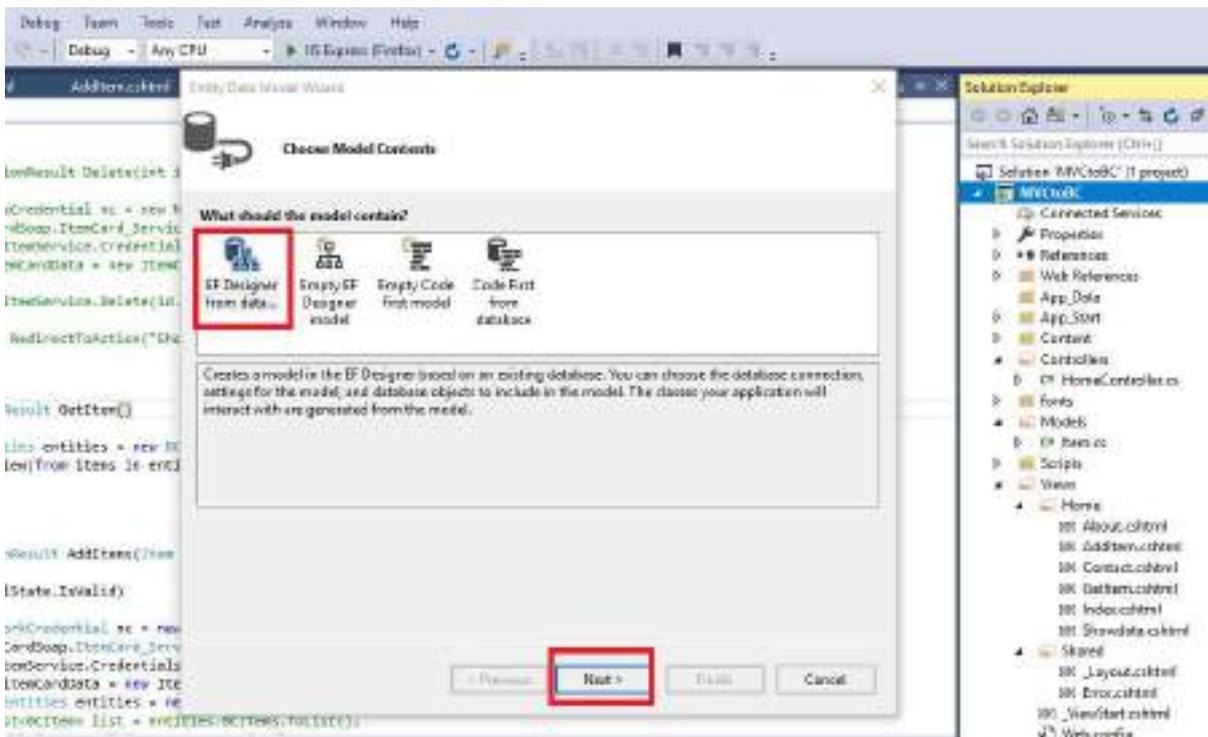


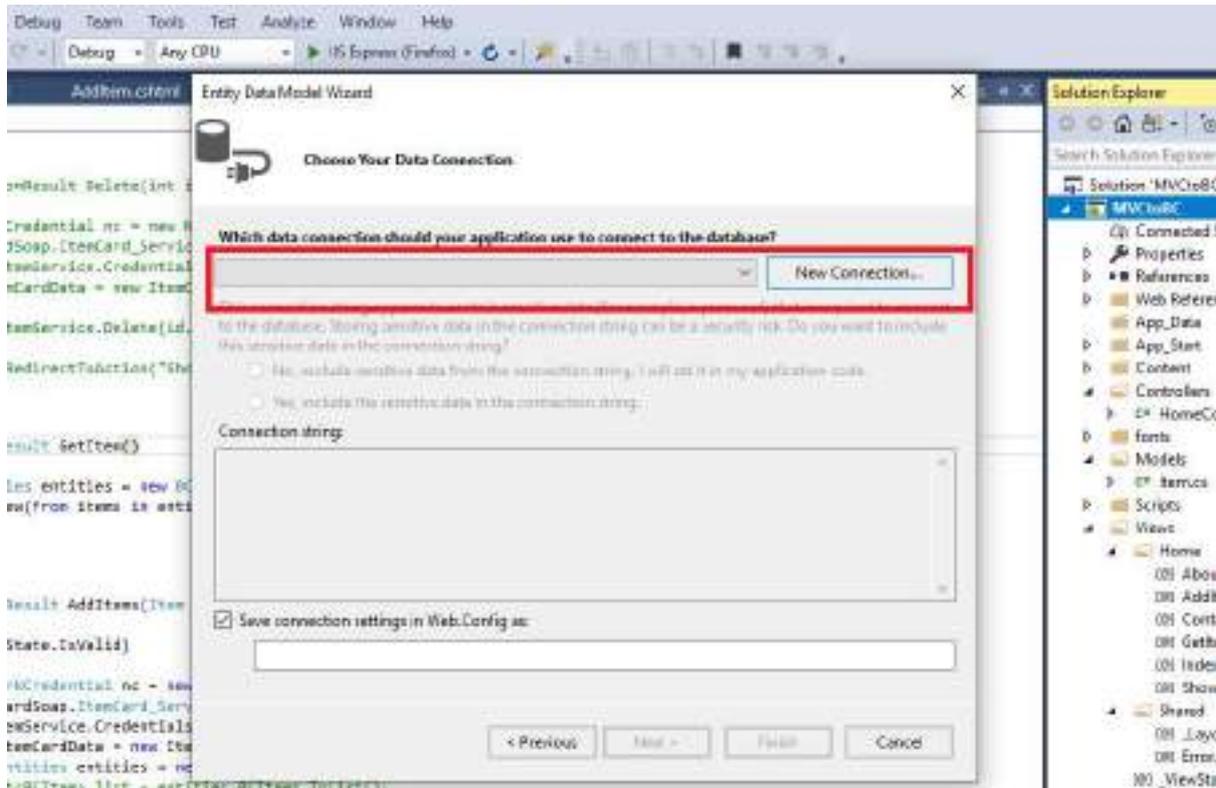


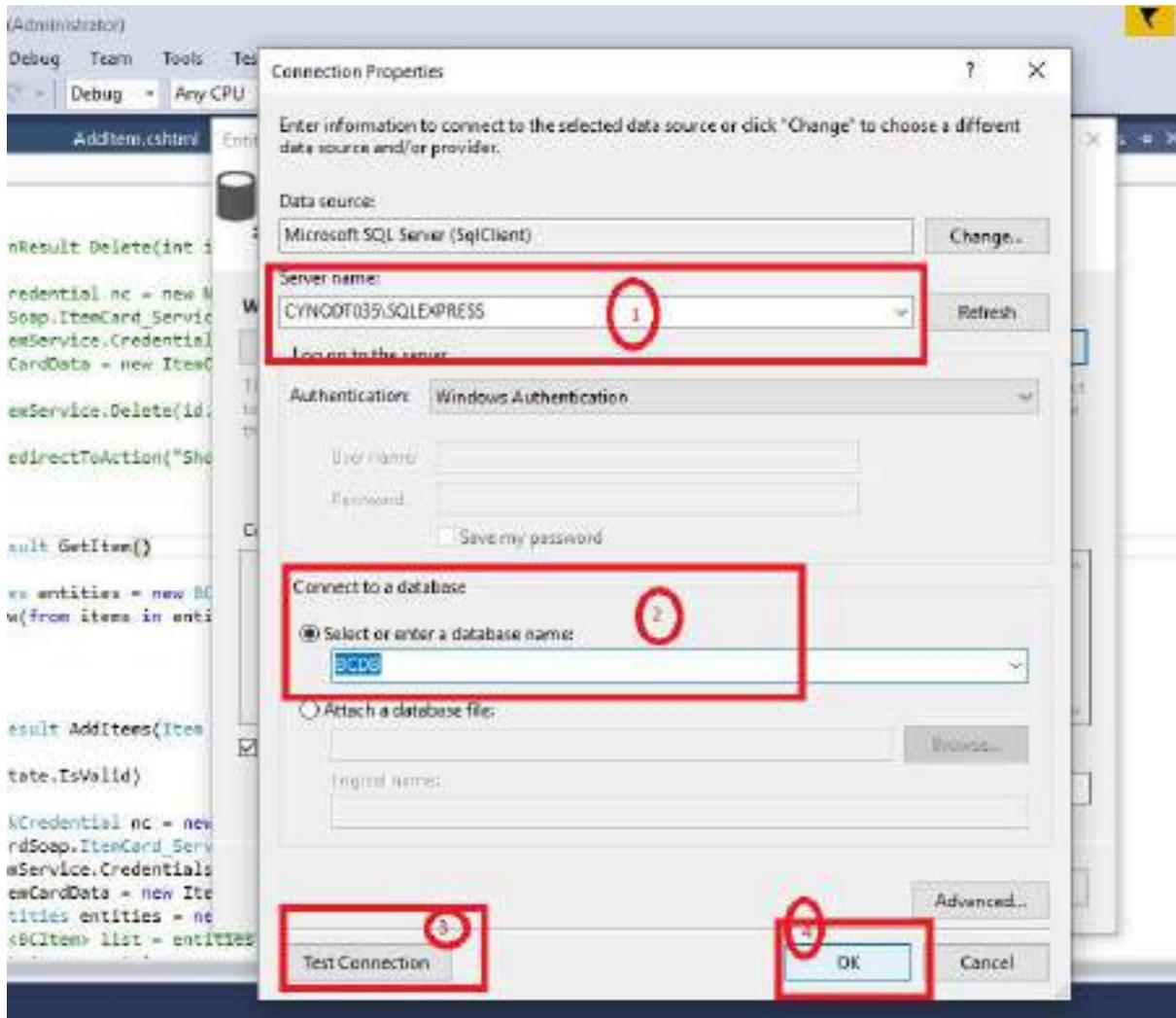
Step 9: Now add BCDBModel.edmx ADO.NET Entity Data Model in visual studio.



Step 10: Now follow the Below steps of screenshots.









Step 13: EditBCItem method to update the status to get only new record (handling data)

```
151 public ActionResult EditBCItem(BCItem item)
152 {
153     if (ModelState.IsValid)
154     {
155         BCDBEntities entities = new BCDBEntities();
156         var itemList = entities.BCItems.Where(e => e.Status == false).ToList();
157         foreach(BCItem bcItem in itemList)
158         {
159             bcItem.Status = true;
160         }
161         // db.Entry(student).State = EntityState.Modified;
162
163         entities.SaveChanges();
164         return RedirectToAction("Index");
165     }
166     return View(item);
167 }
168
169
```

Step 14: Call EditBCItem method in AddItems method to manage already existing data or records.

```
[HttpPost]
public ActionResult AddItems(IEnumerable<Item> items)
{
    if (ModelState.IsValid)
    {
        NetworkCredential nc = new NetworkCredential("CUBAT", "aP0aif3a47ezv/12000:hor63WqsCF4v(nP-DR8Hm");
        ItemCardSoap.ItemCardService addItemService = new ItemCardSoap.ItemCard_Service();
        addItemService.Credentials = nc;
        var itemCardData = new ItemCardSoap.ItemCard();
        BCDBEntities entities = new BCDBEntities();
        //List<BCItem> list = entities.BCItems.ToList();
        var chdList = entities.BCItems.ToList();
        var list = entities.BCItems.Where(e => e.Status == false).ToList();
        int listCount = list.Count;
        if (listCount > 0)
        {
            foreach (BCItem tblItem in list)
            {
                itemCardData.Id = tblItem.WO;
                itemCardData.Description = tblItem.Description;
                itemCardData.Search_Description = tblItem.Description;
                itemCardData.Base_Unit_of_Measure = "PCS";
                itemCardData.Item_Category_Code = tblItem.Item_Category;
                itemCardData.Unit_Cost = tblItem.Cost_Value;
                addItemService.Insert(ref itemCardData);
                EditBCItem(tblItem);
            }
        }
        // return Json(new { ReturnResult = 1 });
        ViewBag.Message = "Items Inserted Successfully";
    }
}
```

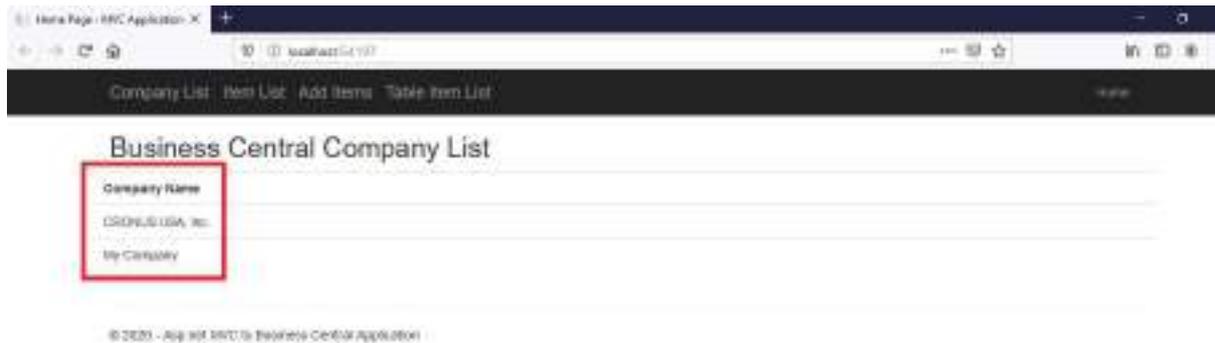
Step 15: Add button in Showdata view page to add table records in Business central

```
<body>
  @using (Html.BeginForm("Index", "Home", FormMethod.Post))
  @using (Html.BeginForm("AddItems", "Home", FormMethod.Post))
  {
    <table>
      <tr>
        <td></td>
        <td><input type="submit" value="Add New Items" class="btn btn-primary mb-1" /></td>
      </tr>
    </table>
  }
</body>
```



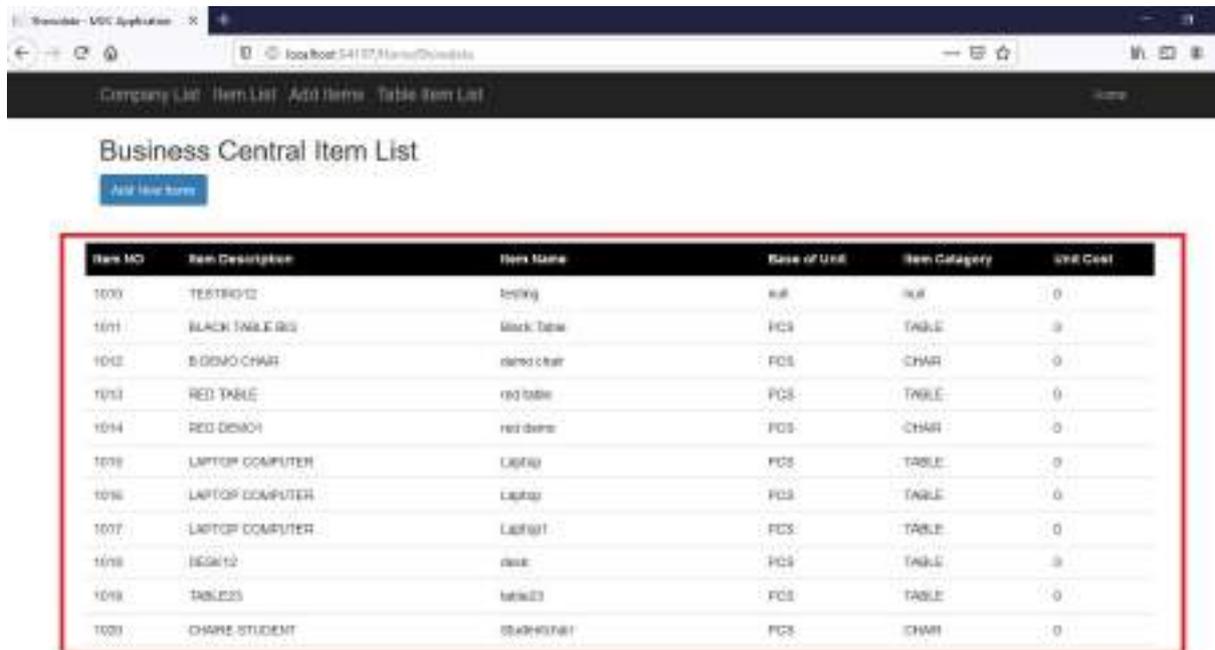
Results: Run your Code

1. Get Company List



The screenshot shows a web browser window displaying the 'Business Central Company List' page. The page has a navigation bar with 'Company List', 'Item List', 'Add Items', and 'Table Item List'. Below the navigation bar, the title 'Business Central Company List' is displayed. A search filter is visible with the text 'Company Name' and a dropdown menu showing 'CROWN USA, Inc.' and 'My Company'. At the bottom of the page, there is a copyright notice: '© 2021 - All rights reserved. Business Central Application'.

2. Get ItemList



The screenshot shows a web browser window displaying the 'Business Central Item List' page. The page has a navigation bar with 'Company List', 'Item List', 'Add Items', and 'Table Item List'. Below the navigation bar, the title 'Business Central Item List' is displayed. A blue button labeled 'Add New Items' is visible. The main content is a table with the following data:

Item ID	Item Description	Item Name	Base of Unit	Item Category	Unit Cost
1000	TESTING 12	testing	EA	EA	0
1001	BLACK TABLE 803	black table	PCS	TABLE	0
1002	EGGNO CHAIR	chairs chair	PCS	CHAIR	0
1003	RED TABLE	red table	PCS	TABLE	0
1004	RED DEMO1	red demo	PCS	CHAIR	0
1005	LAPTOP COMPUTER	Laptop	PCS	TABLE	0
1006	LAPTOP COMPUTER	Laptop	PCS	TABLE	0
1007	LAPTOP COMPUTER	Laptop1	PCS	TABLE	0
1008	DESK 12	desk	PCS	TABLE	0
1009	TABLES	table2	PCS	TABLE	0
1000	CHAIR STUDENT	chairstudent	PCS	CHAIR	0



Item No.	Item Description	Item	Item Category	Unit Cost	
1000-S	ATHENS DESK	ATHENS Desk	PCO	TABLE	780.7
1000-S	PARIS GUEST CHAIR, BLACK	PARIS Guest Chair, black	PCO	CHAIR	100.3
1000-S	ATHENS MOBILE PODIUM	ATHENS Mobile Podium	PCO	TABLE	290.0
1000-S	LONDON SWIVEL CHAIR, BLUE	LONDON Swivel Chair, blue	PCO	CHAIR	140.1
1000-S	AMSTERDAM CONFERENCE TABLE	AMSTERDAM Conference Table	PCO	TABLE	103.4
1000-W	CONFERENCE BUNDLE 1A	Conference Bundle 1A	PCO	nil	0
1000-S	AMSTERDAM LAMP	AMSTERDAM Lamp	PCO	TABLE	42.0
1000-W	CONFERENCE BUNDLE 1B	Conference Bundle 1B	PCO	nil	0
1000-S	BERLIN GUEST CHAIR, YELLOW	BERLIN Guest Chair, yellow	PCO	CHAIR	100.3
1000-W	GUEST SECTION 1	Guest Section 1	PCO	nil	0
1000-S	ROME GUEST CHAIR, GREEN	ROME Guest Chair, green	PCO	CHAIR	100.3
1000-S	TOKYO GUEST CHAIR, BLUE	TOKYO Guest Chair, blue	PCO	CHAIR	100.3
1000-W	CONFERENCE BUNDLE 2A	Conference Bundle 2A	PCO	nil	0
1000-S	MEXICO SWIVEL CHAIR, BLACK	MEXICO Swivel Chair, black	PCO	CHAIR	140.1
1000-W	CONFERENCE PACKAGE 1	Conference Package 1	PCO	nil	0
1000-S	MUNICH SWIVEL CHAIR, YELLOW	MUNICH Swivel Chair, yellow	PCO	CHAIR	100.1
1000-S	MOSCOW SWIVEL CHAIR, RED	MOSCOW Swivel Chair, red	PCO	CHAIR	140.1
1000-S	OSLO GUEST CHAIR, RED	OSLO Guest Chair, red	PCO	CHAIR	100.1

3. Add items

Add Item

Enter your Item Details

Item Name:	<input type="text" value="Office Table"/>
Item Description:	<input type="text" value="Office Table"/>
Item Category:	<input type="text" value="Table"/>

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Business Central Item List

Item No.	Item Description	Item	Item Category	Unit Cost
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Item inserted successfully

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Item NO	Item Description	Item	Item Category	Item Cost
1020	CHASE STUDENT	Chasestud	PCD	CHAIR
1021	CHASE STUDENT	Chasestud	PCD	CHAIR
1022	chair	chair	PCD	chair
1023	chair	chair	PCD	chair
1024	OFFICE ITEM	Office desk	PCD	DESK
1025	OFFICE ITEM	Office desk	PCD	DESK
1026	OFFICE ITEM	office desk	PCD	DESK
1027	OFFICE CHAIR	office chair	PCD	CHAIR
1028	TABLE 101	table 101	PCD	TABLE
1029	OFFICE TABLE	Office Table	PCD	TABLE
1029	BROWN CHAIR	Brown chair	PCD	CHAIR
1029	YELLOW TABLE	yellow table	PCD	TABLE
1029	BROWN CHAIR	Brown chair	PCD	CHAIR
1029	BROWN CHAIR	Brown chair	PCD	CHAIR
1029	YELLOW TABLE	yellow table	PCD	TABLE
1029	DEMO CHAIR	Demo Chair	PCD	CHAIR
1041	BLU TABLE	Blu Table	PCD	TABLE
1042	BLUC DESK	Blu Desk	PCD	DESK

4. Add Items from table to Business Central

Click on Add New Items button to add items from SQL table to Business Central

Business Central Item List

Add New Items

Item NO	Item Description	Item	Item Category	Item Cost
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FORM WANTS TO LOAD DATA

OK



Dynamics BC result

Dynamics 365 Business Central

CROMUS USA, Inc. | France - Cash Management - Sales - Purchasing - Setup & Operations - Intelligent Cloud Insights

Items All - Search - Filter - Columns - Rows - Item - Request Approval - Inventory - Attributes - Page - More options

No. per get the sales forecast updated automatically every week. Set Up Scheduled Processing | Do not edit page

No.	Description	Type	Quantity on Hand	Status	Item	Barcode	Production	Routing No.	Base Unit of Measure	UOM	Unit Cost	Unit Price	Item
1347	Blue Desk	Inventory	0	No	No				PCS	#	100.00	0.00	
1348	light desk	Inventory	0	No	No				PCS	#	100.18	0.00	
1349	light table	Inventory	0	No	No				PCS	#	400.20	0.00	
1350	light desk_2	Inventory	0	No	No				PCS	#	100.18	0.00	
1351	big chair	Inventory	0	No	No				PCS	#	0.00	0.00	
1352	Computer Table	Inventory	0	No	No				PCS	#	0.00	0.00	
1353-0	ATHENS Desk	Inventory	4	No	No				PCS	#	700.18	1000.00	20
1353-1	PARIS Guest Chair, black	Inventory	1	No	No				PCS	#	150.30	150.00	20
1353-2	ATHENS Mobile Pedestal	Inventory	1	No	No				PCS	#	335.20	410.00	30
1353-3	LONDON Swivel Chair, blue	Inventory	3	No	No				PCS	#	145.10	190.10	30
1353-4	ANTWERP Conference Table	Inventory	40	No	No				PCS	#	305.40	347.00	20
1353-40	Conference Bundle 1-8	Inventory	0	No	No				PCS	#	0.00	185.00	

Web page result

Internet - MEC Application

localhost:10101/Items/1352/items

Company List - Item List - Add Items - Table Item List

No.	Description	Type	Quantity on Hand	Status	Item	Barcode	Production	Routing No.	Base Unit of Measure	UOM	Unit Cost	Unit Price	Item
1348	DEMO CHAIR	Inventory	0	No	No				PCS	CHAIR	0		
1348	BLK TABLE	Inventory	0	No	No				PCS	TABLE	300		
1347	BLUE DESK	Inventory	0	No	No				PCS	DESK	90		
1348	LIGHT DESK	Inventory	0	No	No				PCS	DESK	100.1		
1349	LIGHT TABLE	Inventory	0	No	No				PCS	TABLE	400.2		
1350	LIGHT DESK	Inventory	0	No	No				PCS	DESK	100.1		
1351	BIG CHAIR	Inventory	0	No	No				PCS	CHAIR	0		
1352	COMPUTER TABLE	Inventory	0	No	No				PCS	TABLE	0		
1353-0	ATHENS DESK	Inventory	4	No	No				PCS	TABLE	700.7		
1353-1	PARIS GUEST CHAIR, BLACK	Inventory	1	No	No				PCS	CHAIR	150.3		
1353-2	ATHENS MOBILE PEDESTAL	Inventory	1	No	No				PCS	TABLE	335.2		
1353-3	LONDON SWIVEL CHAIR, BLUE	Inventory	3	No	No				PCS	CHAIR	145.1		
1353-4	ANTWERP CONFERENCE TABLE	Inventory	40	No	No				PCS	TABLE	305.4		
1353-10	CONFERENCE BUNDLE 1-8	Inventory	0	No	No				PCS	NULL	0		
1353-5	AMSTERDAM LAMP	Inventory	0	No	No				PCS	ITEM	42.0		
1353-10	CONFERENCE BUNDLE 1-8	Inventory	0	No	No				PCS	NULL	0		
1353-6	BERLIN GUEST CHAIR, YELLOW	Inventory	0	No	No				PCS	CHAIR	100.0		
1353-10	GUEST BUNDLE 1	Inventory	0	No	No				PCS	NULL	0		



5. Get Table Item List

Company List | Item List | Add Items | Table Item List

Table Item List

ItemNo	Description	Description_2	Base_of_unit	Unit Cost
1040	Demo Chair	Demo Chair	PCS	250.00
1041	2k Table	2k Table	PCS	300.00
1042	Blue Desk	Blue Desk	PCS	150.00
1043	light desk	light desk	PCS	100.10
1044	light table	light table	PCS	400.00
1045	Demo Chair	Demo Chair	PCS	250.00
1046	2k Table	2k Table	PCS	300.00
1047	Blue Desk	Blue Desk	PCS	150.00
1048	light desk	light desk	PCS	100.10
1049	light table	light table	PCS	400.00
1050	light desk_2	light desk	PCS	100.10
1051	big chair	big chair	PCS	300.00

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1. **GetCustomerList():**- You can define “GetCustomerList” function in **HomeController** to retrieve data from the CustomerList exposed Web Service.

1.1. **Customer List Web service:**

<https://api.businesscentral.dynamics.com/v2.0/25999968-9620-453c-9568-e954b360a045/Production/WS/CRONUS%20USA,%20Inc./Page/CustomerList?tenant=msft1a6720t50585844&aid=FIN>

1.2. **HomeController:** Add code in HomeController.

```
207     return View(list);
208 }
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```

1.3. **View:** To Display Customer List we used ShowCustomer view

```
1 @model Mvc.Models.CustomerList
2
3 ViewBag.Title = "ShowCustomer";
4
5 <h3>
6     <h4>Business Central Customer List</h4>
7     <link href="~/Content/bootstrap.min.css" rel="stylesheet" />
8     <link href="~/Content/bootstrap.min.css" rel="stylesheet" />
9 </h3>
10 <script src="~/Scripts/jquery-1.10.2.min.js"></script>
11 <link href="~/Scripts/jquery-1.10.2.min.js" rel="stylesheet" />
12 <script type="text/javascript" language="javascript" src="~/Code/JavaScripts/~/Scripts/jquery-1.10.2.min.js"></script>
13
14 <script type="text/javascript">
15 $(document).ready(function () {
16     $.getJSON("/Home/GetCustomerList", function (data) {
17         var table;
18         $.each(data, function (i, item) {
19             table = "<tr>";
20             table = table + "<td>";
21             table = table + item.Name + "</td>";
22             table = table + "<td>";
23             table = table + item.Country_Region_Code + "</td>";
24             table = table + "<td>";
25             table = table + item.Post_Code + "</td>";
26             table = table + "<td>";
27             table = table + item.L1_Short_Name + "</td>";
28             table = table + "</tr>";
29             table = table + "</tr>";
30         });
31         table = table + "</tr>";
32     });
33 });
34
35 </script>
```




2.3. Add code in Home Controller

```
219 //Add Customer info to Database. Desired.
220 //Action
221 public ActionResult AddCustomer()
222 {
223     return View();
224 }
225
226 [HttpPost]
227 //Action
228 public ActionResult AddCustomer(CustomerModel Customer)
229 {
230     if (ModelState.IsValid)
231     {
232         ViewBag.Message = "New Customer Added";
233         CustomerCardShop.Customer_Service.AddCustomer(new CustomerCardShop.Customer_Service());
234         AddCustomer_Credentials = new
235         {
236             CustomerCardData = new CustomerCardShop.Customer_Service(),
237             // new { id = new Guid(), Name = Customer.Name },
238             CustomerCardData.No = Customer.No;
239             CustomerCardData.Name = Customer.Name;
240             CustomerCardData.PanOrCr_MagDoc_Code = Customer.Country;
241             CustomerCardData.PanOrCr_No = Customer.PanOrCr_No;
242             CustomerCardData.Expiry = Customer.Expiry;
243             AddCustomer_Service.Create(new CustomerCardData());
244             ViewBag.Message = "Customer Inserted successfully";
245             return RedirectToAction("Index");
246         }
247     }
248     return RedirectToAction("Index");
249 }
```

2.4. View: Add view to Add Customer

```
1 @model MVCWeb.Models.CustomerModel
2
3 @{
4     ViewBag.Title = "AddCustomer";
5 }
6
7 @Html.ActionView("~/Views/Shared/View.cshtml")
8
9 @Scripts.Render("~/Scripts/jquery-1.10.2.min.js")
10 @Styles.Render("~/Content/css")
11
12 <@page layout="~/Views/Shared/_Layout.cshtml" />
13
14 <@section Title ">
15     <title>Add Customer</title>
16 </@section>
17
18 <@section Body ">
19     <div class="container">
20         <div class="row">
21             <div class="col-md-12">
22                 <div class="panel panel-default">
23                     <div class="panel-heading">
24                         Add Customer
25                     </div>
26                     <div class="panel-body">
27                         <table border="1" class="table">
28                             <thead>
29                                 <tr>
30                                     <th>No</th>
31                                     <th>Name</th>
32                                     <th>Country</th>
33                                     <th>Expiry</th>
34                                     <th>PanOrCr_No</th>
35                                 </tr>
36                             </thead>
37                             <tbody>
38                                 <tr>
39                                     <td><input type="text" value="" /></td>
40                                     <td><input type="text" value="" /></td>
41                                     <td><input type="text" value="" /></td>
42                                     <td><input type="text" value="" /></td>
43                                     <td><input type="text" value="" /></td>
44                                 </tr>
45                             </tbody>
46                         </table>
47                     </div>
48                 </div>
49             </div>
50         </div>
51     </div>
52 </@section>
```



```
33 table th, table td {
34 padding: 5px;
35 border: 1px solid #ccc;
36 }
37
38 table, table table td {
39 border: 1px solid #ccc;
40 }
41
42 input[type=button], select {
43 width: 250px;
44 }
45
46 </tbody>
47 </table>
48
49 <table border="1">
50 <tr>
51 <td>
52 <input type="button" value="Add Customer" class="btn btn-primary btn-2" />
53 </td>
54 </tr>
55 </table>
56
57 </tbody>
58 </table>
```

```
60 <tr>
61 <td>
62 <input type="text" value="" class="form-control" />
63 </td>
64 </tr>
65 </table>
66
67 </tbody>
68 </table>
69
70 <tr>
71 <td>
72 <input type="text" value="" class="form-control" />
73 </td>
74 </tr>
75 </table>
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77 </tbody>
78 </table>
79
80 <tr>
81 <td>
82 <input type="text" value="" class="form-control" />
83 </td>
84 </tr>
85 </table>
86
87 </tbody>
88 </table>
89
90 </tbody>
91 </table>
```

2.5. Web Config:

```
1 <?xml version="1.0" encoding="utf-8" ?>
2 <configuration>
3 <appSettings>
4 <add key="ConnectionString" value="Server=(local)\\.\SQLEXPRESS;Database=Adventureworks;Trusted_Connection=yes;" />
5 </appSettings>
6 <connectionStrings>
7 <add name="Adventureworks" connectionString="Server=(local)\\.\SQLEXPRESS;Database=Adventureworks;Trusted_Connection=yes;" providerName="System.Data.SqlClient" />
8 </connectionStrings>
9 <system.web>
10 <compilation debug="true" />
11 <httpRuntime targetFramework="4.5" />
12 <authentication>
13 <forms loginUrl="~/Account/Login.aspx" />
14 </authentication>
15 <membership>
16 <providers>
17 <add name="AspNetLocalRoleProvider" type="System.Web.Security.AspNetLocalRoleProvider, System.Web.Security, Version=4.0.0.0, Culture=neutral, PublicKeyToken=31bf3856ad364e35" />
18 </providers>
19 <defaultProvider="AspNetLocalRoleProvider" />
20 </membership>
21 <roleManager enabled="true" />
22 </system.web>
23 <system.webServices>
24 <scriptMappings>
25 <add namespace="MicrosoftAjax" path="~/Scripts/Scripts.js" />
26 </scriptMappings>
27 </system.webServices>
28 </configuration>
```



3. **GetSalesOrderList():** You can define “GetSalesOrderList” function in **HomeController** to retrieve data from the SalesOrder List exposed Web Service.

3.1. **Sales Order Web Service:**

<https://api.businesscentral.dynamics.com/v2.0/25999968-9620-453c-9568-e954b360a045/Production/WS/CRONUS%20USA,%20Inc./Page/SalesOrder?tenant=msft1a6720t50585844&aid=FIN>

3.2. **Controller:** Add code in Controller.

```
216     return View(customer);
217 }
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219
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221
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223
224
225
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227
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```

3.3. **View:** Add View to display Sales Orders.

```
1  @model MVCNote.Models.SalesOrderList
2
3  ViewBag.Title = "SalesOrder";
4
5
6
7
8  <div id="SalesOrder">
9
10 <table>
11 <thead>
12 <tr>
13 <th><strong>Sales Order</strong></th>
14 </tr>
15 </thead>
16 <tbody>
17 <tr>
18 <td><strong>Sales Order</strong></td>
19 </tr>
20 </tbody>
21 </table>
22
```




2. Add Customer:

Company List Item List Add Items Table Item List Customer List Add Customer SalesOrder List Add SalesOrder Home

AddCustomer

Enter your Item Details

Customer Name:	<input type="text" value="Ajayk Singh"/>
Country Code:	<input type="text" value="IN"/>
Post Code:	<input type="text" value="248871"/>
E-Mail:	<input type="text" value="ajayk.singh@cynoteck.com"/>

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Company List Item List Add Items Table Item List Customer List Add Customer SalesOrder List Add SalesOrder Home

Business Central Customer List

Customer ID	Customer Name	Country Region	Post Code	E-mail
10001	Aditya Corporation	IN		aditya.corp@aditya.com
20002	Tray Research	IN		tray.res@tray.com
30003	Global of Day Ltd	IN		global.day@global.com
40004	Apex Infotech	IN		apex.inf@apex.com
50005	Hero Aest	IN	31112	hero.aest@hero.com
60006	Good Health	IN	34001	good.health@cynoteck.com

Customer Added Successfully



Company List | Item List | Add Items | Table Item List | Customer List | Add Customer | SalesOrder List | Add SalesOrder

Business Central Customer List

Customer ID	Customer Name	Country/Region	Post Code	E-mail
10000	Acadus Corporation	US	31772	alex.chauhan@cynoteck.com
20000	Tray Research	US	61236	trish.nay@tray.com
30000	School of Fine Art	US	32105	megan.bond@artco.com
40000	Alpine Ski House	US	31772	ian.dobson@artco.com
50000	Relocast	US	31772	jess.horne@ontrak.com
000010	Sung Maatpal	IN	248001	sung.maatpal@cynoteck.com
000020	Kunj	IN	248002	sung.maatpal@cynoteck.com
000030	Abhinav Singh	IN	248001	abhinav.singh@cynoteck.com

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Customer Added in Business Central

CRONUS USA, Inc. | Finance | CRM Management | Sales | Purchasing | Setup & Extensions | Intelligent Cloud Insights

Customers: All | Search | + New | Delete | Process | Report | New Document | Customer | Navigate | Page

No.	Name	Responsibility Center	Custom Code	Phone No.	Contact	Items (B)	Items (L) (B)	Sales (B)
0000	Acadus Corporation				Sarah	0.00	0.00	221,556.40
20000	Tray Research				Patric Fay	3,029.69	3,029.69	38,873.00
30000	School of Fine Art				Megan Bond	5,889.52	5,889.52	221,816.70
40000	Alpine Ski House				Ian Dobson	4,216.52	4,216.52	71,453.00
50000	Relocast				Jesse Horne	8,036.88	8,036.88	46,963.00
000010	Sung Maatpal					0.00	0.00	0.00
000020	Kunj					0.00	0.00	0.00
000030	Abhinav Singh					0.00	0.00	0.00



3. Get Sales Order:

Company List Item List Add Items Table Item List Customer List Add Customer SalesOrder List Add SalesOrder Home

Order NO	Customer NO	Sell to Customer Name	Sell to Address	Sell to Address 2	Sell to City	Sell to County	Sell to Post Code	Sell to Country Region Code	Sell to E-Mail	Document Date	Posting Date	Due Date
S-ORD181081	10000	Adalyn Corporation	102 Market Square	su8	Atlanta	GA	31172	US	robert@wms@cintoso.com	Tue Apr 02 2018	Tue Apr 02 2018	Thu May 02 2018
S-ORD181082	10000	Adalyn Corporation	102 Market Square	su8	Atlanta	GA	31172	US	robert@wms@cintoso.com	Wed May 01 2018	Wed May 01 2018	Sat Jun 01 2018
S-ORD181083	30000	School of Fine Art	30 High Tower Green	su8	Mass	PL	37120	US	robert@wms@cintoso.com	Mon Apr 22 2018	Wed Apr 23 2018	Tue Apr 30 2018
S-ORD181084	40000	Alpine Ski House	10 Deerfield Road	su8	Atlanta	GA	31172	US	lan@elcity@cintoso.com	Mon Mar 12 2018	Wed May 13 2018	Thu Jan 15 2018
S-ORD181085	40000	Alpine Ski House	10 Deerfield Road	su8	Atlanta	GA	31170	US	lan@elcity@cintoso.com	Fri Nov 01 2018	Fri Nov 01 2018	Sat Dec 01 2018