



CRUD Operation With ASP.NET Core MVC Web App Using ADO.NET



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Updated date Mar 20 2018



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Introduction

In this article, I am going to explain how to create an MVC web application in ASP.NET Core 2.0 using ADO.NET. We will be creating a sample Employee Record Management System and performing CRUD operations on it.

We will be using Visual Studio 2017 (Version 15.3.5 or above) and SQL Server.

Prerequisites

- Install .NET Core 2.0.0 or above SDK from [here](#)
- Install Visual Studio 2017 Community Edition (Version 15.3.5 or above) from [here](#)

Now, we are ready to proceed with the creation of our MVC web application.

Creating Table and Stored Procedures

Open SQL Server and use the following script to create *tblEmployee* table.

```
01. Create table tblEmployee(  
02.     EmployeeId int IDENTITY(1,1) NOT NULL,  
03.     Name varchar(20) NULL,  
04.     City varchar(20) NULL,  
05.     Department varchar(20) NULL,  
06.     Gender varchar(6) NULL  
07. )
```

Now, we will create stored procedures to add, delete, update, and get employee data.

To insert an Employee Record

```
01. Create procedure spAddEmployee  
02. (  
03.     @Name VARCHAR(20),  
04.     @City VARCHAR(20),  
05.     @Department VARCHAR(20),  
06.     @Gender VARCHAR(6)  
07. )  
08. as  
09. Begin  
10.     Insert into tblEmployee (Name, City, Department, Gender)  
11.     Values (@Name, @City, @Department, @Gender)  
12. End
```

To update an Employee Record

```
01. Create procedure spUpdateEmployee  
02. (  
03.     @EmpId INTEGER ,  
04.     @Name VARCHAR(20),  
05.     @City VARCHAR(20),
```

```
08. )
09. as
10. begin
11.     Update tblEmployee
12.     set Name=@Name,
13.     City=@City,
14.     Department=@Department,
15.     Gender=@Gender
16.     where EmployeeId=@EmpId
17. End
```

To delete an Employee Record

```
01. Create procedure spDeleteEmployee
02. (
03.     @EmpId int
04. )
05. as
06. begin
07.     Delete from tblEmployee where EmployeeId=@EmpId
08. End
```

To view all Employee Records

```
01. Create procedure spGetAllEmployees
02. as
03. Begin
04.     select *
05.     from tblEmployee
06. End
```

Now, our Database part has been completed. So, we will proceed to create the MVC application using Visual Studio.

Create MVC Web Application

After selecting the project, a "New Project" dialog will open. Select .NET Core inside Visual C# menu from the left panel. Then, select "ASP.NET Core Web Application" from available project types. Put the name of the project as *MVCDemoApp* and press OK. Refer to this image.

After clicking on OK, a new dialog will open asking to select the project template. You can observe two drop-down menus at the top left of the template window. Select ".NET Core" and "ASP.NET Core 2.0" from these dropdowns. Then, select "Web application(Model-View-Controller)" template and press OK.

Now our project will open. You can observe that we have Models, Views and Controllers folders already created. We will be adding our files to these folders only.

Adding the Controller to the Application

Right click on Controllers folder and select Add >> New Item

An "Add New Item" dialog box will open. Select Web from the left panel, then select "MVC Controller Class" from templates panel, and put the name as *EmployeeController.cs*. Press OK.

Adding the Model to the Application

Right click on *Models* folder and select Add >> Class. Name your class *Employee.cs*. This class will contain our Employee model properties.

Add one more class file to *Models* folder. Name it as *EmployeeDataAccessLayer.cs* . This class will contain our Database related operations.

Now, the Models folder has the following structure.

Open *Employee.cs* and put the following code in it. Since we are adding the required validators to the fields of Employee class, so we need to use `System.ComponentModel.DataAnnotations` at the top.

```
01. using System;
02. using System.Collections.Generic;
03. using System.ComponentModel.DataAnnotations;
04. using System.Linq;
05. using System.Threading.Tasks;
06.
07. namespace MVCDemoApp.Models
08. {
09.     public class Employee
10.     {
11.         public int ID { get; set; }
12.         [Required]
13.         public string Name { get; set; }
14.         [Required]
15.         public string Gender { get; set; }
16.         [Required]
17.         public string Department { get; set; }
```

```
20.     }
21. }
```

Open *EmployeeDataAccessLayer.cs* and put the following code to handle database operations. Make sure to put your connection string.

```
01. using System;
02. using System.Collections.Generic;
03. using System.Data;
04. using System.Data.SqlClient;
05. using System.Linq;
06. using System.Threading.Tasks;
07.
08. namespace MVCDemoApp.Models
09. {
10.     public class EmployeeDataAccessLayer
11.     {
12.         string connectionString = "Put Your Connection string here";
13.
14.         //To View all employees details
15.         public IEnumerable<Employee> GetAllEmployees()
16.         {
17.             List<Employee> lstemployee = new List<Employee>();
18.
19.             using (SqlConnection con = new SqlConnection(connectionString))
20.             {
21.                 SqlCommand cmd = new SqlCommand("spGetAllEmployees", con);
22.                 cmd.CommandType = CommandType.StoredProcedure;
23.
24.                 con.Open();
25.                 SqlDataReader rdr = cmd.ExecuteReader();
26.
27.                 while (rdr.Read())
28.                 {
29.                     Employee employee = new Employee();
30.
```

```
33.         employee.Gender = rdr["Gender"].ToString();
34.         employee.Department = rdr["Department"].ToString();
35.         employee.City = rdr["City"].ToString();
36.
37.         lstemployee.Add(employee);
38.     }
39.     con.Close();
40. }
41. return lstemployee;
42. }

43.
44. //To Add new employee record
45. public void AddEmployee(Employee employee)
46. {
47.     using (SqlConnection con = new SqlConnection(connectionString))
48.     {
49.         SqlCommand cmd = new SqlCommand("spAddEmployee", con);
50.         cmd.CommandType = CommandType.StoredProcedure;
51.
52.         cmd.Parameters.AddWithValue("@Name", employee.Name);
53.         cmd.Parameters.AddWithValue("@Gender", employee.Gender);
54.         cmd.Parameters.AddWithValue("@Department", employee.Department);
55.         cmd.Parameters.AddWithValue("@City", employee.City);
56.
57.         con.Open();
58.         cmd.ExecuteNonQuery();
59.         con.Close();
60.     }
61. }

62.
63. //To Update the records of a particluar employee
64. public void UpdateEmployee(Employee employee)
65. {
66.     using (SqlConnection con = new SqlConnection(connectionString))
67.     {
```

```
70.
71.         cmd.Parameters.AddWithValue("@EmpId", employee.ID);
72.         cmd.Parameters.AddWithValue("@Name", employee.Name);
73.         cmd.Parameters.AddWithValue("@Gender", employee.Gender);
74.         cmd.Parameters.AddWithValue("@Department", employee.Department);
75.         cmd.Parameters.AddWithValue("@City", employee.City);
76.
77.         con.Open();
78.         cmd.ExecuteNonQuery();
79.         con.Close();
80.     }
81. }
82.
83. //Get the details of a particular employee
84. public Employee GetEmployeeData(int? id)
85. {
86.     Employee employee = new Employee();
87.
88.     using (SqlConnection con = new SqlConnection(connectionString))
89.     {
90.         string sqlQuery = "SELECT * FROM tblEmployee WHERE EmployeeID= " + id;
91.         SqlCommand cmd = new SqlCommand(sqlQuery, con);
92.
93.         con.Open();
94.         SqlDataReader rdr = cmd.ExecuteReader();
95.
96.         while (rdr.Read())
97.         {
98.             employee.ID = Convert.ToInt32(rdr["EmployeeID"]);
99.             employee.Name = rdr["Name"].ToString();
100.            employee.Gender = rdr["Gender"].ToString();
101.            employee.Department = rdr["Department"].ToString();
102.            employee.City = rdr["City"].ToString();
103.        }
104.    }
```



```

107.
108.     //To Delete the record on a particular employee
109.     public void DeleteEmployee(int? id)
110.     {
111.
112.         using (SqlConnection con = new SqlConnection(connectionString))
113.         {
114.             SqlCommand cmd = new SqlCommand("spDeleteEmployee", con);
115.             cmd.CommandType = CommandType.StoredProcedure;
116.
117.             cmd.Parameters.AddWithValue("@EmpId", id);
118.
119.             con.Open();
120.             cmd.ExecuteNonQuery();
121.             con.Close();
122.         }
123.     }
124. }
125. }

```

Now, we will proceed to create our Views.

Adding Views to the Application

To add views for our controller class, we need to create a folder inside *Views* folder with the same name as our controller and then add our views to that folder.

Right-click on the *Views* folder, and then Add >> New Folder and name the folder as *Employee*.

Now Right click on the *Views/Employee* folder, and then select Add >> New Item.

An “Add New Item” dialog box will open. Select Web from the left panel, then select “MVC View Page” from templates panel, and put the name as *Index.cshtml*. Press OK.

Thus we have created our first view. Similarly add 4 more views in *Views/Employee* folder, *Create.cshtml*, *Delete.cshtml*, *Details.cshtml*, and *Edit.cshtml*.

Now, our *Views* folder will look like this

Since our Views has been created, we will put codes in View and Controller for performing CRUD operations.

Create View

This view will be used to Add new employee data to the database.

Open *Create.cshtml* and put following code into it.

```
01. @model MVCDemoApp.Models.Employee
02.
03. @{
04.     ViewData["Title"] = "Create";
05. }
06. <h2>Create</h2>
07. <h4>Employees</h4>
08. <hr />
09. <div class="row">
10.     <div class="col-md-4">
11.         <form asp-action="Create">
12.             <div asp-validation-summary="ModelOnly" class="text-danger"></div>
13.             <div class="form-group">
```

```

16.         <span asp-validation-for="Name" class="text-danger"></span>
17.     </div>
18.     <div class="form-group">
19.         <label asp-for="Gender" class="control-label"></label>
20.         <select asp-for="Gender" class="form-control">
21.             <option value="">-- Select Gender --</option>
22.             <option value="Male">Male</option>
23.             <option value="Female">Female</option>
24.         </select>
25.         <span asp-validation-for="Gender" class="text-danger"></span>
26.     </div>
27.     <div class="form-group">
28.         <label asp-for="Department" class="control-label"></label>
29.         <input asp-for="Department" class="form-control" />
30.         <span asp-validation-for="Department" class="text-danger"></span>
31.     </div>
32.     <div class="form-group">
33.         <label asp-for="City" class="control-label"></label>
34.         <input asp-for="City" class="form-control" />
35.         <span asp-validation-for="City" class="text-danger"></span>
36.     </div>
37.     <div class="form-group">
38.         <input type="submit" value="Create" class="btn btn-default" />
39.     </div>
40. </form>
41. </div>
42. </div>
43. <div>
44.     <a asp-action="Index">Back to List</a>
45. </div>
46. @section Scripts {
47.     @{await Html.RenderPartialAsync("_ValidationScriptsPartial");}
48. }

```

To handle database operations, we will create an object of *EmployeeDataAccessLayer* class inside the *EmployeeController* class.

```
03.     EmployeeDataAccessLayer objemployee = new EmployeeDataAccessLayer();
04.
05.     // GET: /<controller>/
06.     public IActionResult Index()
07.     {
08.     }
09. }
```

To handle the business logic of create, open *EmployeeController.cs* and put following code into it.

```
01. [HttpGet]
02. public IActionResult Create()
03. {
04.     return View();
05. }
06.
07. [HttpPost]
08. [ValidateAntiForgeryToken]
09. public IActionResult Create([Bind] Employee employee)
10. {
11.     if (ModelState.IsValid)
12.     {
13.         objemployee.AddEmployee(employee);
14.         return RedirectToAction("Index");
15.     }
16.     return View(employee);
17. }
```

The [Bind] attribute is used with parameter “employee” to protect against over-posting. To know more about over-posting visit [here](#)

Index View

This view will be displaying all the employee records present in the database. Additionally, we will also be providing action methods Edit, Details and Delete on each record.

```
01. @model IEnumerable<MVCDemoApp.Models.Employee>
02.
03. @{
04.     ViewData["Title"] = "Index";
05. }
06. <h2>Index</h2>
07. <p>
08.     <a asp-action="Create">Create New</a>
09. </p>
10. <table class="table">
11.     <thead>
12.         <tr>
13.             <th>
14.                 @Html.DisplayNameFor(model => model.Name)
15.             </th>
16.             <th>
17.                 @Html.DisplayNameFor(model => model.Gender)
18.             </th>
19.             <th>
20.                 @Html.DisplayNameFor(model => model.Department)
21.             </th>
22.             <th>
23.                 @Html.DisplayNameFor(model => model.City)
24.             </th>
25.             <th></th>
26.         </tr>
27.     </thead>
28.     <tbody>
29.         @foreach (var item in Model)
30.         {
31.             <tr>
32.                 <td>
33.                     @Html.DisplayFor(modelItem => item.Name)
34.                 </td>
35.                 <td>
```

```

38.         <td>
39.             @Html.DisplayFor(modelItem => item.Department)
40.         </td>
41.         <td>
42.             @Html.DisplayFor(modelItem => item.City)
43.         </td>
44.         <td>
45.             <a asp-action="Edit" asp-route-id="@item.ID">Edit</a> |
46.             <a asp-action="Details" asp-route-id="@item.ID">Details</a> |
47.             <a asp-action="Delete" asp-route-id="@item.ID">Delete</a>
48.         </td>
49.     </tr>
50. }
51. </tbody>
52. </table>

```

To handle the business logic of Index view, open *EmployeeController.cs* and add following code in Index method.

```

01. public IActionResult Index()
02. {
03.     List<Employee> lstEmployee = new List<Employee>();
04.     lstEmployee = objemployee.GetAllEmployees().ToList();
05.
06.     return View(lstEmployee);
07. }

```

Edit View

This view will enable us to edit an existing employee data.

Open *Edit.cshtml* and put following code into it.

```

01. @model MVCDemoApp.Models.Employee
02.
03.

```

```

06. <h2>Edit</h2>
07. <h4>Employees</h4>
08. <hr />
09. <div class="row">
10.     <div class="col-md-4">
11.         <form asp-action="Edit">
12.             <div asp-validation-summary="ModelOnly" class="text-danger"></div>
13.             <input type="hidden" asp-for="ID" />
14.             <div class="form-group">
15.                 <label asp-for="Name" class="control-label"></label>
16.                 <input asp-for="Name" class="form-control" />
17.                 <span asp-validation-for="Name" class="text-danger"></span>
18.             </div>
19.             <div class="form-group">
20.                 <label asp-for="Gender" class="control-label"></label>
21.                 <select asp-for="Gender" class="form-control">
22.                     <option value="">-- Select Gender --</option>
23.                     <option value="Male">Male</option>
24.                     <option value="Female">Female</option>
25.                 </select>
26.                 <span asp-validation-for="Gender" class="text-danger"></span>
27.             </div>
28.             <div class="form-group">
29.                 <label asp-for="Department" class="control-label"></label>
30.                 <input asp-for="Department" class="form-control" />
31.                 <span asp-validation-for="Department" class="text-danger"></span>
32.             </div>
33.             <div class="form-group">
34.                 <label asp-for="City" class="control-label"></label>
35.                 <input asp-for="City" class="form-control" />
36.                 <span asp-validation-for="City" class="text-danger"></span>
37.             </div>
38.             <div class="form-group">
39.                 <input type="submit" value="Save" class="btn btn-default" />
40.             </div>

```

```
43. </div>
44. <div>
45.     <a asp-action="Index">Back to List</a>
46. </div>
47. @section Scripts {
48.     @{await Html.RenderPartialAsync("_ValidationScriptsPartial");}
49. }
```

To handle the business logic of Edit view, open *EmployeeController.cs* and add following code to it.

```
01. [HttpGet]
02. public IActionResult Edit(int? id)
03. {
04.     if (id == null)
05.     {
06.         return NotFound();
07.     }
08.     Employee employee = objemployee.GetEmployeeData(id);
09.
10.     if (employee == null)
11.     {
12.         return NotFound();
13.     }
14.     return View(employee);
15. }
16.
17. [HttpPost]
18. [ValidateAntiForgeryToken]
19. public IActionResult Edit(int id, [Bind]Employee employee)
20. {
21.     if (id != employee.ID)
22.     {
23.         return NotFound();
24.     }
25.     if (ModelState.IsValid)
```



```
28.         return RedirectToAction("Index");
29.     }
30.     return View(employee);
31. }
```

As you can observe that we have two Edit action methods, one for HttpGet and another for HttpPost. The HttpGet Edit action method will fetch the employee data and populates the fields of edit view. Once the user clicks on Save button after editing the record, a Post request will be generated which is handled by HttpPost Edit action method.

Details View

This view will display the details of a particular employee.

Open *Details.cshtml* and put following code into it.

```
01. @model MVCDemoApp.Models.Employee
02.
03. @{
04.     ViewData["Title"] = "Details";
05. }
06. <h2>Details</h2>
07. <div>
08.     <h4>Employees</h4>
09.     <hr />
10.     <dl class="dl-horizontal">
11.         <dt>
12.             @Html.DisplayNameFor(model => model.Name)
13.         </dt>
14.         <dd>
15.             @Html.DisplayFor(model => model.Name)
16.         </dd>
17.         <dt>
18.             @Html.DisplayNameFor(model => model.Gender)
19.         </dt>
```

```

22.         </dd>
23.         <dt>
24.             @Html.DisplayNameFor(model => model.Department)
25.         </dt>
26.         <dd>
27.             @Html.DisplayFor(model => model.Department)
28.         </dd>
29.         <dt>
30.             @Html.DisplayNameFor(model => model.City)
31.         </dt>
32.         <dd>
33.             @Html.DisplayFor(model => model.City)
34.         </dd>
35.     </dl>
36. </div>
37. <div>
38.     <a asp-action="Edit" asp-route-id="@Model.ID">Edit</a> |
39.     <a asp-action="Index">Back to List</a>
40. </div>

```

To handle the business logic of Details view, open *EmployeeController.cs* and add following code to it.

```

01. [HttpGet]
02. public IActionResult Details(int? id)
03. {
04.     if (id == null)
05.     {
06.         return NotFound();
07.     }
08.     Employee employee = objemployee.GetEmployeeData(id);
09.
10.     if (employee == null)
11.     {
12.         return NotFound();
13.     }

```

Delete View

This view will help us to remove employee data .

Open *Delete.cshtml* and put following code into it.

```
01. @model MVCDemoApp.Models.Employee
02.
03. @{
04.     ViewData["Title"] = "Delete";
05. }
06. <h2>Delete</h2>
07. <h3>Are you sure you want to delete this?</h3>
08. <div>
09.     <h4>Employees</h4>
10.     <hr />
11.     <dl class="dl-horizontal">
12.         <dt>
13.             @Html.DisplayNameFor(model => model.Name)
14.         </dt>
15.         <dd>
16.             @Html.DisplayFor(model => model.Name)
17.         </dd>
18.         <dt>
19.             @Html.DisplayNameFor(model => model.Gender)
20.         </dt>
21.         <dd>
22.             @Html.DisplayFor(model => model.Gender)
23.         </dd>
24.         <dt>
25.             @Html.DisplayNameFor(model => model.Department)
26.         </dt>
27.         <dd>
```

```

30.         <dt>
31.             @Html.DisplayNameFor(model => model.City)
32.         </dt>
33.         <dd>
34.             @Html.DisplayFor(model => model.City)
35.         </dd>
36.     </dl>
37.
38.     <form asp-action="Delete">
39.         <input type="hidden" asp-for="ID" />
40.         <input type="submit" value="Delete" class="btn btn-default" /> |
41.         <a asp-action="Index">Back to List</a>
42.     </form>
43. </div>

```

To handle the business logic of Delete view, open *EmployeeController.cs* and add following code to it.

```

01. [HttpGet]
02. public IActionResult Delete(int? id)
03. {
04.     if (id == null)
05.     {
06.         return NotFound();
07.     }
08.     Employee employee = objemployee.GetEmployeeData(id);
09.
10.     if (employee == null)
11.     {
12.         return NotFound();
13.     }
14.     return View(employee);
15. }
16.
17. [HttpPost, ActionName("Delete")]
18. [ValidateAntiForgeryToken]

```

```
21.         objemployee.DeleteEmployee(id);
22.         return RedirectToAction("Index");
23.     }
```

To complete Delete operation we need two Delete methods accepting same parameter (Employee Id). But two methods with same name and method signature will create a compile time error and if we rename the Delete method then routing won't be able to find it as asp.net maps URL segments to action methods by name. So, to resolve this issue we put `ActionName("Delete")` attribute to the `DeleteConfirmed` method. That attribute performs mapping for the routing system so that a URL that includes `/Delete/` for a POST request will find the `DeleteConfirmed` method.

When we click on Delete link on the Index page, it will send a Get request and return a View of the employee using `HttpGet` Delete method. When we click on Delete button on this view, it will send a Post request to delete the record which is handled by the `HttpPost` `DeleteConfirmed` method. Performing a delete operation in response to a Get request (or for that matter, performing an edit operation, create operation, or any other operation that changes data) opens up a security hole. Hence, we have two separate methods.

And that's it. We have created our first ASP.NET Core MVC web application. Before launching the application, we will configure route URLs. Open *Startup.cs* file to set the format for routing. Scroll down to `app.UseMvc` method, where you can set the route url.

Make sure that your route url is set like this

```
01. app.UseMvc(routes =>
02. {
03.     routes.MapRoute(
04.         name: "default",
05.         template: "{controller=Home}/{action=Index}/{id?}");
06. });
```

This url pattern sets `HomeController` as default controller and `Index` method as default action method, whereas `Id` parameter is optional. Default and optional route parameters need not be present in the URL path for a match. If we do not append any controller

Similarly, if we append only controller name in the URL, it will navigate to index action method of that controller.

Now press F5 to launch the application and navigate to Employee controller by appending */Employee* in the URL.

You can see the page as shown below.

Click on *CreateNew* to navigate to *Create* view. Add a new Employee record as shown in the image below.

If we miss the data in any field while creating employee record, we will get a required field validation error message.

After inserting the data in all the fields, click on "Create" button. The new employee record will be created and you will be redirected to the Index view, displaying records of all the employees. Here, we can also see action methods Edit, Details, and Delete.

If we want to edit an existing employee record, then click Edit action link. It will open Edit View as below where we can change the employee data.

Here we have changed the Department of employee Swati from Finance to HR. Click on "Save" to return to the Index view to see the updated changes as highlighted in the image below.

If we miss any fields while editing employee records, then Edit view will also throw required field validation error message

If you want to see the details of any Employee, then click on Details action link, which will open the Details view, as shown in the image below.

Click on "Back to List" to go back to Index view. Now, we will perform Delete operation on an employee named Venkat. Click on Delete action link which will open Delete view asking for a confirmation to delete.

Once we click on Delete button, it will send HttpPost request to delete employee record and we will be redirected to the Index view. Here, we can see that the employee with name Venkat has been removed from our record.

Conclusion

We have learned about creating a sample MVC web application with ASP.Net Core 2.0 using ADO.NET and SQL server. Please refer to the attached code for better understanding.

See Also

- [CRUD Operations With ASP.NET Core Using Angular 5 And ADO.NET](#)
- [ASP.NET Core - CRUD Using Angular 5 And Entity Framework Core](#)
- [CRUD Operation With ASP.NET Core MVC Using Visual Studio Code And ADO.NET](#)

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[Jason Choo](#)

1881 11 0

1 0 Reply Feb 15, 2019



Hi, thanks for great article. I am new in .net, how i fill connection string?

[Danu Nih](#)

1890 2 0

1 0 Reply Dec 05, 2018



Good article for .Net Core

[Suraj Kumar](#)

215 9.3k 586.4k

1 0 Reply Oct 28, 2018



Hello can this be done for a web api as well? without using entityframeworkcore?

[Edwin Goh Haoyu](#)

1878 14 0

1 0 Reply Jun 22, 2018

Thanks a lot Sharma Sahib , I am new with this technology can you please guide me that how upload file also in database within this project ,
Thanks



Hi Ankit, It is a great article Explaining Aspnet core. I have one query Can we have the Connection string in Configuration file as we used do it in MVC?

Pritesh Bonde

1881 11 0

Feb 11, 2018

1 1 Reply



Please refer to my article (<http://www.c-sharpcorner.com/article/cookie-authentication-with-asp-net-core-2-0/>). In this article i have explained how to read connection string from appsetting.json file. alternatively you can also refer (<https://docs.microsoft.com/en-gb/aspnet/core/fundamentals/configuration/index?tabs=basicconfiguration>)

Ankit Sharma

109 17.8k 2m

Feb 11, 2018

1



Hi, very usefull article. Could you provide some info about using output parameters and or the return value? Thanks in advance.

Eduardo Sánchez

1874 18 0

Jan 17, 2018

1 0 Reply



You can also create this application using Angular 5 as front-end. To know how, refer to my article <http://ankitsharmablogs.com/crud-operations-asp-net-core-using-angular-5-ado-net/>

Ankit Sharma

109 17.8k 2m

Jan 03, 2018

1 0 Reply



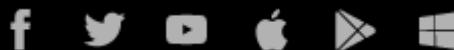
Very good Ankit. Thanks for sharing the article.

Josh Yates

1859 33 0

Oct 31, 2017

1 0 Reply



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