How to use JQuery DataTables in ASP.NET MVC

In this article, I want to describe How to use JQuery DataTables in ASP.NET MVC application. Before starting describes How to use JQuery DataTables in ASP.NET MVC, I would like to say something about JQuery DataTables. So let try to know what JQuery DataTables is.

The JQuery DataTables plug-in is an excellent client-side component that can be used to create rich-functional tables in the web browser. This plug-in adds lot of functionalities to the plain HTML tables that are placed in web pages such as filtering, paging, sorting, changing page length, etc. you can get more about by this link.

Now time to start How to use JQuery DataTables in ASP.NET MVC application. I am trying to descried step by step; I hope it will be helpful for use. So we should follow step properly.

Step 1:

I am going to introduce with you JQuery DataTables, that how to use JQuery DataTables in ASP.NET MVC application. So At first take an ASP.NET MVC Project. Then added JQuery DataTables package by Nuget Manager Console like below:

PM> Install-Package jquery.datatables

Step 2:

After completed added JQuery DataTables package to you project, then you will see following folder like below:

==========image

Step 3:

Then you have to add references some files which need to use JQuery DataTables in the Layout View page. The files are like below:

==========code

Step 4:

I am trying to show Product List of Data to JQuery DataTables. So I created my needed Model for Product List of Data. I added a Product Controller for Product Index rezor view page. I Create an Index.cshtml Page for display Product List of Data by JQuery DataTables.

It is possible to implement client-server interaction by configuring JQuery DataTables to query the server via AJAX calls in order to fetch the required data. In this case, table that is generated on the client side in Index.cshtml is initially empty like below:

==========code

Notice, this "table" do not have any rows in it. In order to apply the plugin to this "table" you will need to call something like below:

==========code

In this JQuery code is used many properties of JQuery DataTables. You can get more about by this link.

I am going to describe most common properties like the server-side processing mode by setting the bServerSide parameter to true. In this mode, JQuery DataTables plugin will load table data from the remote URL using the Ajax request. The second parameter defines to what URL JQuery DataTables plugin should send Ajax request in order to load the data into the table. I am using sAjaxSource as URL that should be used for providing data to the DataTable, we need to implement an AjaxHandler action in the Product controller that will react to the /Product/GetProducts calls like below:

==========code

Above in the code, I return Json data for Index.cshtml rezor view page table. You can see a parameter Object which name is DataTableParamModel. This object I created for filtering, sorting, paging etc. DataTableParamModel have some properties like below:

==========code

Notice, Parameters name must be same of JQuery DataTables exiting parameters name.

The JQuery DataTables plug-in may send some additional parameters, but for most purposes, the mentioned parameters should be enough. You can get more about JQuery DataTables parameters by this link.

If you followed all step properly, I hope it will work properly.

JQuery DataTables show details in ASP.NET MVC