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AspNet mvc listbox single select

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CodeProject, 20 Bay Street, 11th Floor Toronto, Ontario, Canada M5J 2N8 +1 (416) 849-8900 17 Feb 2022 2 minutes to read The ListBox provides support to select an item or a group of item by mouse or keyboard action. There are two selection modes available in list box. Single - To select single item in the list box. Multiple - To select multiple items in the list box. On selection of each list box item, change event is triggered. Single selection To enable single selection in the list box, mode should be set as Single in selectionSettings property. @Html.EJS(0,ListBox("listbox").DataSource((IEnumerable)ViewBag.data).SelectionSettings=new Syncfusion.EJ2.DropDowns.ListBoxSelectionSettings { Mode = Syncfusion.EJ2.DropDowns.SelectionMode.Single}).Render() using System; using System.Collections.Generic; using System.Linq; using System.Threading.Tasks; using Microsoft.AspNetCore.Mvc; using WebApplication1.Models; namespace WebApplication1.Controllers { public class ListBoxController : Controller { public IActionResult selection() { ViewBag.data = new string[] { "BadmHennessey Venominton", "Bugatti Chiron", "Bugatti Veyron Super Sport", "SSC Ultimate Aero", "Koenigsegg CCR", "McLaren F1", "Aston Martin One- 77", "Jaguar XJ220" }; return View(); } } } Multiple selection To enable multiple selection in the list box, mode should be set as Multiple in selectionSettings property. To select multiple items, use the SHIFT, CTRL, and arrow keys to make selections. By default, the selection mode is set as Multiple. @Html.EJS(0,ListBox("listbox").DataSource((IEnumerable)ViewBag.data).SelectionSettings=new Syncfusion.EJ2.DropDowns.ListBoxSelectionSettings { Mode = Syncfusion.EJ2.DropDowns.SelectionMode.Multiple}).Render() using System; using System.Collections.Generic; using System.Linq; using System.Threading.Tasks; using Microsoft.AspNetCore.Mvc; using WebApplication1.Models; namespace WebApplication1.Controllers { public class ListBoxController : Controller { public IActionResult selection() { ViewBag.data = new string[] { "BadmHennessey Venominton", "Bugatti Chiron", "Bugatti Veyron Super Sport", "SSC Ultimate Aero", "Koenigsegg CCR", "McLaren F1", "Aston Martin One- 77", "Jaguar XJ220" }; return View(); } } } To select all the items in the list box, showSelectAll method can also be used. In this chapter, you will learn: What is Html.ListBoxFor Extension Methods? Html.ListBoxFor Example How Bind Html.ListBoxFor with a Model How to display List item in Html.ListBoxFor control How to send ListBoxFor Value to Controller Html.Attributes of Html.ListBoxFor Html.ListBoxFor Extension Method creates ListBox control and allows users to select multiple options in one go. It is very useful when you want to get multiple options for the users. The benefit of using ListBoxFor is, all the options visually appear and a user has the option to select one option as well as more than one options. Here, in this tutorial, I will explain, how to create ListBox in ASP.NET MVC using List Items and then post selected items to controllers. You can define this control as follows: @Html.ListBoxFor(model => model.property, ItemList, object HtmlAttribute) Model => model.property: It contains the ID of selected items ItemList: It is a list of items Object HtmlAttributes: It sets extra attributes to ListBox Control Here, I am going to create a TeaList and later I will use this TeaList to show in ListBox and ask the user to select their choice. Model: UserModel.cs using System.Collections.Generic; using System.Web.Mvc; namespace HtmlHelperDemo.Models { public class UserModel { public int[] SelectedTealds { get; set; }; public IEnumerable TeaList { get; set; }; } } Controller: HomeController.cs using System.Web.Mvc; using HtmlHelperDemo.Models; using System.Collections.Generic; using System.Linq; namespace HtmlHelperDemo.Controllers { public class HomeController : Controller { public ActionResult Index() { var model = new UserModel { SelectedTealds = new[] { 2 }, TeaList = GetAllTeaTypes() }; return View(model); } [HttpPost] public ActionResult Index(UserModel model) { model.TeaList = GetAllTeaTypes(); if(model.SelectedTealds!=null) { List selectedItems = model.TeaList.Where(p => model.SelectedTealds.Contains(int.Parse(p.Value))).ToList(); foreach (var Tea in selectedItems) { Tea.Selected = true; ViewBag.Message += Tea.Text + " | "; } } return View(model); } public List GetAllTeaTypes() { List items = new List(); items.Add(new SelectListItem { Text = "General Tea", Value = "1" }); items.Add(new SelectListItem { Text = "Coffee", Value = "2" }); items.Add(new SelectListItem { Text = "Green Tea", Value = "3" }); items.Add(new SelectListItem { Text = "Black Tea", Value = "4" }); return items; } } } View: Index.cshtml @using HtmlHelperDemo.Models @model UserModel
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@using (Html.BeginForm("Index", "Home", FormMethod.Post)) { Select Tea Type: @Html.ListBoxFor(x => x.SelectedTealds, Model.TeaList, new { style="width:200px"}) } You Selected Tea Type: @ViewBag.Message Output: Html Attributes set Html Properties for input control like width, color, value, CSS class etc. Attributes provide additional information about elements and always comes with name="value" pair. @Html.ListBoxFor(x => x.SelectedTealds, Model.TeaList, new { @style = "width:200px; background-color:yellow; padding:15px"; @title = "Select Multiple Options", @align = "left", }) Html Output General Tea Coffee Green Tea Black Tea In this chapter, you learned Html.ListBoxFor() Helper Extension method in ASP.NET MVC 5 with complete programming example. I kept this chapter simple, short and easy so hopefully you will not get any problem in understanding this chapter. In the next chapter, you will learn Html.Hidden() extension method. Page 2 In this chapter, you will learn: What is Html.Hidden and Html.HiddenFor method? What is the difference between Html.Hidden and Html.HiddenFor method? Html.Hidden Example Html.HiddenFor Example How Bind Html.HiddenFor with a Model How to display List item in Hidden How to send Hidden Value to Controller Html.Attributes of Html.Hidden Html.Hidden() field is same as other input control like Html.TextBox but there are some special features in Html.Hidden that is listed below: It is hidden field, means the control will not be visible to user. User cannot interact with this control. This control is used for storing and sending extra information to server or next page. It sends additional information that user doesn't know or isn't interested in. It maintains data even in Postback. The Hidden Field data can be read by client side script like JavaScript and JQuery. What is the purpose of using Hidden() Field in Html? Let's understand it with a real world example. You created a form, and asked users to fill some information. In the behind, you also want to collect some user information and send those information to server when user click submit button. These information might be: 1. IP address of User's Machine 2. Which browser user is using 3. Which Operating system user is using; Android, iOS, Linux or Windows 7, etc 4. Security Token 5. Submission Date 6. Etc. So, when user will fill the form, meanwhile you can collect all the above information and keep them into a hidden field. Html.Hidden() is a basic typed helper method or loosely typed helper method, that isn't bounded with any model. It contains 2 parameters; Hidden Field Name and Hidden Field Value. Define: MvcHtmlString Html.Hidden(string name, object value, object htmlAttributes) Easy way Example: @Html.Hidden("Hidden_Field_Name","Value") Html.HiddenFor() is a strongly typed method that is bounded with model class. It communicates and send/receive value to model class properties. Generally it contains 2 parameters; Hidden Field Name which is a model property and Value for Hidden Field. Define: MvcHtmlString Html.HiddenFor(Expression> expression) Easy Way Example: @Html.HiddenFor(m => m.UserId, new { Value = "1" }) Programming Example Here, I am giving a basic Html.Hidden and Html.HiddenFor example. In this following example, I have tried to explain following thing: 1. Creating and Defining Basic and Strongly typed hidden field. 2. Assigning Value to hidden field using Controller. 3. Displaying Hidden Field Value in View Page. Model: UserModel.cs namespace HtmlHelperDemo.Models { public class UserModel { public int UserId { get; set; } @Html.HiddenFor(m=>m.UserName, new { Value = "Steven Clark" }) } } Html.Hidden - Basic Type Value: @ViewBag.basicaName @Html.HiddenFor - Strongly Type ID: @ViewBag.id Name: @ViewBag.name Controller: HomeController.cs using System.Web.Mvc; using HtmlHelperDemo.Models; namespace HtmlHelperDemo.Controllers { public class HomeController : Controller { public ActionResult Index() { return View(); } [HttpPost] public ActionResult Index(FormCollection fc, UserModel um) { ViewBag.basicaName = fc["BasicHiddenName"]; ViewBag.id = um.UserId; ViewBag.name = um.UserName; return View(um); } } } Html Output: In order to see the output, click on submit button and then go to source page by pressing Ctrl + U in your browser. Assigning Value to Html.Hidden Field using Controller Model: UserModel.cs namespace HtmlHelperDemo.Models { public class UserModel { public int UserId { get; set; }; public string UserName { get; set; }; } } View: Index.cshtml @using HtmlHelperDemo.Models @model UserModel Html.Hidden Example @using (Html.BeginForm()) { //Basic Hidden Field @Html.Hidden("BasicHiddenName", null, new { @id = "BasicHiddenName" }) //Strongly Typed Hidden Field @Html.HiddenFor(m => m.UserId, new { id = "UserId" }) @Html.HiddenFor(m=>m.UserName, new { id = "UserName" }) } } Html.Hidden - Basic Type Value: @ViewBag.basicaName @Html.HiddenFor - Strongly Type ID: @ViewBag.id Name: @ViewBag.name Controller: HomeController.cs using System.Web.Mvc; using HtmlHelperDemo.Models; namespace HtmlHelperDemo.Controllers { public class HomeController : Controller { public ActionResult Index() { UserModel um = new UserModel(); um.UserId = 2; um.UserName = "Jack Martin"; ViewBag.BasicHiddenName = "Jack Martin"; return View(um); } [HttpPost] public ActionResult Index(FormCollection fc, UserModel um) { ViewBag.basicaName = fc["BasicHiddenName"]; ViewBag.id = um.UserId; ViewBag.name = um.UserName; return View(um); } } } Html Output In this chapter, I have tried to teach you how to use Html.Hidden Field in ASP.Net MVC 5. It is pretty easy to learn this control with the help of mentioned programming example in this article. Page 3 In this chapter, you will learn: What is Html.Password and Html.PasswordFor Helper Class? What is the difference between Html.Password and Html.PasswordFor method? Define Html.password class How to Validate PasswordFor field? How to send data from Password to Controller Html.Password Helper class generates password input fields in a web form that is used to ask and validate user password. The characters entered in password field is masked with special character * (asterisk) or whatever you set on it. Difference between Html.Password and Html.PasswordFor both generates the password input field but still, they are different in nature. Html.Password is a basic type, loosely typed Helper class that is not bounded with the model property. Html.PasswordFor is a strongly typed class that is bounded by the model property. It is always advisable to use Html.PasswordFor class because it is secure, error-free, check errors on compile time and easy to use. Define Html.Password Html.Password(string name, object value, object htmlAttributes) Easy Example @Html.Password("BasicPassword") Html.PasswordFor(Html.PasswordFor(Expression expression, object htmlAttributes) Easy Example @Html.PasswordFor(m => m.ConfirmPassword) Model: UserModel.cs using System.ComponentModel.DataAnnotations; namespace HtmlHelperDemo.Models { public class UserModel { public int UserId { get; set; }; public string UserName { get; set; }; [Required(ErrorMessage = "Password is Required.")] public string Password { get; set; }; [Required(ErrorMessage = "Confirmation Password is Required")] [Compare("Password", ErrorMessage = "Password Must Match")] public string ConfirmPassword { get; set; }; } } View: Index.cshtml @using HtmlHelperDemo.Models @model UserModel //Strongly Typed Hidden Field @Html.PasswordFor(m => m.Password) @Html.ValidationMessageFor(m=>m.Password, "", new { @class = "error" }) @Html.PasswordFor(m => m.ConfirmPassword) @Html.ValidationMessageFor(m => m.ConfirmPassword, "", new { @class = "error" })
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} Value: @ViewBag.BasicPassword Value: @ViewBag.StrongPassword Controller: HomeController.cs using System.Web.Mvc; using HtmlHelperDemo.Models; namespace HtmlHelperDemo.Controllers { public class HomeController : Controller { public ActionResult Index() { return View(); } [HttpPost] public ActionResult Index(FormCollection fc, UserModel um) { if (ModelState.IsValid) { ViewBag.BasicPassword = fc["BasicPassword"]; ViewBag.StrongPassword = um.ConfirmPassword; return View(um); } else { return View(); } } } } Html Output
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Password Must Match

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In this tutorial, you learned how to use Html.Password Helper class for generating Password input box in a web form. You also learned how to validate password field and send data back to the controller. In the next chapter, you will learn Html.Display Helper Class. Page 4 In this chapter, you will learn: What is Html.Display and Html.DisplayFor How to define Html.Display Helper Method How to Bind Html.DisplayFor to a Model How to Display TextBox string into Html.Display Method Programming Example of Html.DisplayFor Html.Display and Html.DisplayFor both are used to print string value to the screen. However, you can also use plain HTML tag for displaying text on the screen but Html.Display Extension Method provides more formatting option. Html.Display is loosely typed method whereas Html.DisplayFor is strongly typed method. Programming Example Model: UserModel.cs namespace HtmlHelperDemo.Models { public class UserModel { public string UserName { get; set; }; } } View: Index.cshtml @using HtmlHelperDemo.Models @model UserModel Html.DisplayFor Example @using (Html.BeginForm("Index", "Home", FormMethod.Post)) { Enter Your Name: @Html.TextBoxFor(m => m.UserName) } Strongly Typed Value: @Html.DisplayFor(m => m.UserName) Loosely Typed Value: @Html.Display("UserName") Controller: HomeController.cs using System.Web.Mvc; using HtmlHelperDemo.Models; namespace HtmlHelperDemo.Controllers { public class HomeController : Controller { public ActionResult Index() { return View(); } [HttpPost] public ActionResult Index(FormCollection fc, UserModel um) { if (ModelState.IsValid) { um.UserName = fc["UserName"]; return View(um); } else { return View(); } } } } Output Page 5 In this chapter, you will learn: What is Html.BeginForm? How to Create Html.BeginForm How to Pass Form Data to Controller Complete Programming Example Html.BeginForm is the Html Helper Extension Method that is used for creating and rendering the form in HTML. This method makes your job easier in creating form. Here, is the method to create a form using Html.BeginForm extension method in ASP.NET MVC5. Html.BeginForm("ActionMethod", "ControllerName", "GetPost Method") Generally, 3 parameters are used when creating Html.BeginForm ActionMethod - It defines which action method is look for when submit button is clicked. ControllerName - It defines, which controller keeps the defined action method. GetPost Method - It defines the method you want to use to send data from form to controller. Programming Example: Model: UserModel.cs namespace HtmlHelperDemo.Models { public class UserModel { public string UserName { get; set; }; public int Age { get; set; }; public string City { get; set; }; } } View: Index.cshtml @using HtmlHelperDemo.Models @model UserModel Html.DisplayFor Example @using (Html.BeginForm("Index", "Home", FormMethod.Post)) { Enter Your Name: @Html.TextBoxFor(m => m.UserName) Enter Your City: @Html.TextBoxFor(m => m.City) } User Name: @Html.DisplayFor(m => m.UserName) User Age: @Html.DisplayFor(m => m.Age) User City: @Html.DisplayFor(m => m.City) Controller: HomeController.cs namespace HtmlHelperDemo.Controllers { public class HomeController : Controller { public ActionResult Index() { return View(); } [HttpPost] public ActionResult Index(UserModel um) { return View(um); } } } However, there is a lot thing to learn in WebForms but this chapter focuses on simple understanding on how Html.BeginForm can be created. I added the simple but complete programming example that will surely help you to create a form using Html.BeginForm Extension Method. However, I have also written some advanced topic on WebForms and if you want to learn more about this, please visit the following article. More Examples Page 6 In this tutorial, you will learn: What is Html.NameFor helper method? How to Use Html.NameFor Method in MVC? Programming Example Html.NameFor extension method prints the name of model properties. Model: UserModel.cs namespace HtmlHelperDemo.Models { public class UserModel { public string UserName { get; set; }; public int Age { get; set; }; public string City { get; set; }; } } View: Index.cshtml @using HtmlHelperDemo.Models @model UserModel Html.NameFor Example @using (Html.BeginForm("Index", "Home", FormMethod.Post)) { @Html.NameFor(m => m.UserName) @Html.TextBoxFor(m => m.UserName) @Html.NameFor(m => m.Age) @Html.TextBoxFor(m => m.Age) @Html.NameFor(m => m.City) @Html.TextBoxFor(m => m.City) } Output
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