# FINOLEX ACADEMY OF MANAGEMENT AND TECHNOLOGY, RATNAGIRI

# **DEPARTMENT OF MCA**

### PRACTICAL NO. 06

# **ASP.NET MVC**

- 1. Create an MVC application to demonstrate ViewBag Object.
  - Ans:
    - Code:

#### HomeController.cs

#### Index.cshtml

```
@{
    Layout = null;
}
<!DOCTYPE html>
<html>
    <head>
        <meta name="viewport" content="width=device-width" />
        <title>Index</title>
</head>
<body>
        <div>
            @ViewBag.Greeting (from the view)
            </div>
        </body>
</body>
```

</html>
Output:

Good Morning!! (from the view)

2. Create an MVC application to accept Customer details and display the same using views. Use automatically implemented properties, strongly typed HTML Input helpers methods.

Ans:

• Code: HomeController.cs

```
using CustomerApplication.Models;
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Mvc;
namespace CustomerApplication.Controllers
  public class HomeController: Controller
    // GET: Home
    public ActionResult Index()
       return View();
    [HttpGet]
    public ViewResult CustomerInput()
       return View();
    [HttpPost]
    public ViewResult CustomerInput(Customer c1)
       if (ModelState.IsValid)
         return View("CustomerDisplay", c1);
       { //There is validation error
         return View();
               Indesx.cshtml
  Layout = null;
<!DOCTYPE html>
```

```
<html>
<head>
  <meta name="viewport" content="width=device-width" />
  <link href="~/Content/bootstrap.css" rel="stylesheet" />
  k href="~/Content/bootstrap-theme.css" rel="stylesheet" />
  <title>Customer Information System</title>
  <style>
    .btn a {
      color: white;
      text-decoration: none
    body {
      background-color: #F1F1F1;
  </style>
</head>
<body>
  <div class="text-center">
    Customer information system allows to store retrive customer details 
    <div class="btn btn-success">
      @Html.ActionLink("Add Customer Details", "CustomerInput")
    </div>
</body>
               </html>
               CustomerInput.cshtml
@model CustomerApplication.Models.Customer
(a){
  Layout = null;
<!DOCTYPE html>
<html>
<head>
  <link href="~/Content/bootstrap.css" rel="stylesheet" />
  <link href="~/Content/bootstrap-theme.css" rel="stylesheet" />
  <meta name="viewport" content="width=device-width" />
  k rel="stylesheet" type="text/css" href="~/Content/StyleSheet1.css" />
  <title>CustomerInput</title>
</head>
<body>
  <div class="panel panel-success">
    <div class="panel-heading text-center">
       < h4>
         Customer Information
         System
      </h4>
    </div>
    <div class="panel-body">
       @using (Html.BeginForm())
```

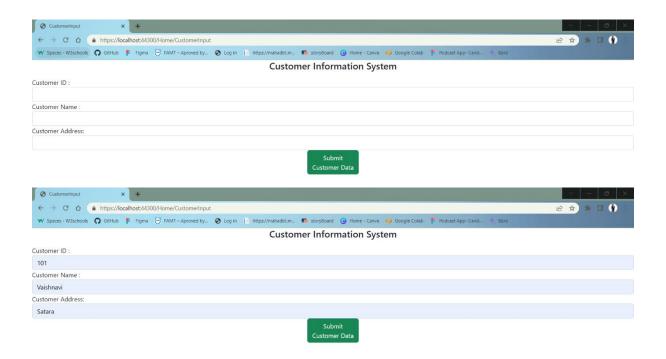
```
@Html.ValidationSummary()
         <div class="form-group">
           <label>Customer ID :</label>@Html.TextBoxFor(x => x.CustID, new{ @class = "form-
control" })
         </div>
                 <div class="form-group">
                    <label>Customer Name :</label>@Html.TextBoxFor(x =>x.CustName, new {
@class = "form-control" })
                 </div><div class="form-group">
                    <label>Customer Address:/label>@Html.TextBoxFor(x =>x.CustAdd, new {
@class = "form-control" })
                  </div>
                   <div class="text-center">
                    <input class="btn btn-success" type="submit" value="Submit Customer Data"</pre>
/>
                          </div>
    </div>
  </div>
</body>
              </html>
              CustomerDisplay.cshtml
@model CustomerApplication.Models.Customer
@{
  Layout = null;
<!DOCTYPE html>
<html>
<head>
  <link href="~/Content/bootstrap.css" rel="stylesheet" />
  <link href="~/Content/bootstrap-theme.css" rel="stylesheet" />
  <meta name="viewport" content="width=device-width" />
  <title>CustomerDisplay</title>
  <style>
    body {
      background-color: #F1F1F1;
  </style>
</head>
<body>
  <div class="text-center">
    <h1>Customer Information System</h1>
    Customer ID : @Model.CustID
    Customer Name : @Model.CustName
    Customer Address : @Model.CustAdd
  </div>
</body>
</html>
              Customer.cs
```

```
using System;
using System.Collections.Generic;
using System.ComponentModel.DataAnnotations;
using System.Linq;
using System.Web;
namespace CustomerApplication.Models
  public class Customer
    [Required(ErrorMessage = "Please enter Customer ID!")]
    public int CustID { get; set; }
    [Required(ErrorMessage = "Please enter Customer Name!")]
    public string CustName { get; set; }
    [Required(ErrorMessage = "Please enter Customer Address!")]
    public string CustAdd { get; set; }
               StyleSheet1.css
body {
  .field-validation-error
  color: #f00;
.field-validation-valid {
  display: none;
.input-validation-error {
  border: 1px solid #f00;
  background-color: #fee;
.validation-summary-errors {
  font-weight: bold;
  color: #f00;
}
.validation-summary-valid {
  display: none;
```

### Output:

Customer information system allows to store retrive customer details

Add Customer Details



# **Customer Information System**

Customer ID: 101

Customer Name: Vaishnavi

Customer Address: Satara

# 3. Create an MVC application to demonstrate extension methods and use layout. Ans:

• Code:

#### HomeController.cs

```
using ProductMVCApplication.Models;
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Web;
using System.Web.Mvc;
namespace ProductMVCApplication.Controllers
  public class HomeController: Controller
    // GET: Home
    public ViewResult AutoProperty()
       Product p1 = new Product();
       p1.Name = "Kayak";
       string pName = p1.Name;
       return View("AutoProperty", (object)String.Format("Product name: {0}", pName));
    public ViewResult CreateProduct()
       Product p1 = new Product();
       p1.ProductID = 100;
       p1.Name = "Kayak";
       p1.Price = 1500;
       return View("AutoProperty", (object)String.Format("Price: {0}", p1.Price));
    public ViewResult CreateCollection()
       string[] stringArray = { "apple", "orange", "plum" };
       List<int> intList = new List<int> { 10, 20, 30, 40 };
       Dictionary<string, int> myDict = new Dictionary<string, int>
{ { "apple", 10 }, { "orange", 20 }, { "plum", 30 } };
       return View("Result", (object)stringArray[1]);
    public ViewResult UseExtension()
       ShoppingCart cart = new ShoppingCart
         Products = new List<Product>
              new Product {Name = "Kayak", Price = 275M},
              new Product {Name = "Lifejacket", Price = 48.95M},
              new Product {Name = "Soccer ball", Price = 19.50M},
              new Product {Name = "Corner flag", Price = 34.95M}
```

```
}
       };
       decimal cartTotal = cart.TotalPrices();
       return View("Result", (object)String.Format("Total: {0:c}", cartTotal));
    public ViewResult CreateAnonArray()
       var oddsAndEnds = new[]
         new { Name = "MVC", Category = "Pattern" },
         new { Name = "Hat", Category = "Clothing" },
         new { Name = "Apple", Category = "Fruit" }
       StringBuilder result = new StringBuilder();
       foreach (var item in oddsAndEnds)
         result.Append(item.Name).Append(" ");
       return View("Result", (object)result.ToString());
    Product myProduct = new Product
       ProductID = 1,
       Name = "Kayak",
       Description = "A boat for one person",
       Category = "Watersports",
       Price = 275M
    public ActionResult Index()
       return View(myProduct);
  }
}
               Product.cs
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
namespace ProductMVCApplication.Models
  public class Product
    public int ProductID { get; set; }
    public string Name { get; set; }
    public string Description { get; set; }
    public decimal Price { get; set; }
    public string Category { set; get; }
```

**ShoppingCart.cs** 

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
namespace ProductMVCApplication.Models
  public class ShoppingCart
    public List<Product> Products { get; set; }
               MyExtensionMethods.cs
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
namespace ProductMVCApplication.Models
  public static class MyExtensionMethods
    public static decimal TotalPrices(this ShoppingCart cartParam)
      decimal total = 0;
      foreach (Product prod in cartParam.Products)
       { total += prod.Price; }
      return total;
    }
               AutoProperty.cshtml
@model String
(a)
  Layout = null;
<!DOCTYPE html>
<html>
<head>
  <meta name="viewport" content="width=device-width" />
  <title>AutoProperty</title>
</head>
<body>
  < div >
    @Model
  </div>
</body>
</html>
```

#### Index.cshtml

```
@model ProductMVCApplication.Models.Product
@{
  ViewBag.Title = "Product Name";
  Layout = "~/Views/ BasicLayout.cshtml";
<!DOCTYPE html>
<html>
<head>
  <meta name="viewport" content="width=device-width" />
  <title>Index</title>
</head>
<body>
  <div>
    Product Name = @Model.Name<br/>>br/>
    Product Price=@Model.Price
  </div>
</body>
</html>
        Result.cshtml
@model String
(a)
  Layout = null;
<!DOCTYPE html>
<html>
<head>
  <meta name="viewport" content="width=device-width" />
  <title>Result</title>
</head>
<body>
  <div>
    @Model
  </div>
</body>
</html>
              _BasicLayout.cshtml
<!DOCTYPE html>
<html>
<head>
  <meta name="viewport" content="width=device-width" />
  <title>@ViewBag.Title</title>
</head>
```

```
<body>
  <h1>Product Information</h1>
  <div style="padding: 20px; border: solid medium black; font-size: 20pt">
    @RenderBody()
  </div>
  <h2>Visit <a href="https://www.snapdeal.com/">Snapdeal</a></h2>
</body>
</html>
RouteConfig.cs
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Mvc;
using System. Web. Routing;
namespace ProductMVCApplication
  public class RouteConfig
    public static void RegisterRoutes(RouteCollection routes)
       routes.IgnoreRoute("{resource}.axd/{*pathInfo}");
      routes.MapRoute(
         name: "Default",
         url: "{controller}/{action}/{id}",
         defaults: new { controller = "Home", action = "Index", id = UrlParameter.Optional }
      );
 }
```

### • Output:



Visit Snapdeal

Product Name = Kayak Product Price=275

