

Practical 6

Q1. Create an MVC application to demonstrate ViewBag Object.

RouteConfig.cs:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Mvc;
using System.Web.Routing;

namespace MVCFirstApp
{
    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 }
            );
        }
    }
}
```

HomeController.cs:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Mvc;
using System.Web.Routing;

namespace MVCFirstApp
{
    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 }
                );
            }
        }
    }
}
```

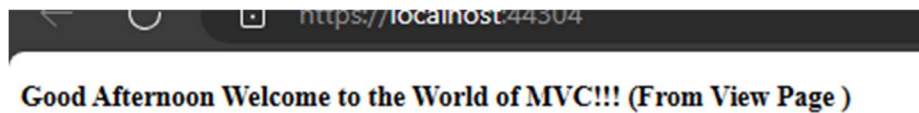
Index.cshtml:

```
@{
    Layout = null;
}

<!DOCTYPE html>

<html>
<head>
    <meta name="viewport" content="width=device-width" />
    <title>Index</title>
</head>
<body>
    <div>
        <h3>@ViewBag.Greeting Welcome to the World of MVC!!! (From View Page )</h3>
    </div>
</body>
</html>
```

Output:



Q2. Create an MVC application to accept Customer details and display the same using views. Use automatically implemented properties, strongly typed HTML Input helpers methods.

RouteConfig.cs:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Mvc;
using System.Web.Routing;

namespace CustomerMVC
{
    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 }
            );
        }
    }
}
```

Customer.cs:

```
using System;
using System.Collections.Generic;
using System.ComponentModel.DataAnnotations;
using System.Linq;
using System.Web;

namespace CustomerMVC.Models
{
    public class Customer
    {
        [Required(ErrorMessage = "It's Madantory! ID")]
        public int CustId { get; set; }
        [Required(ErrorMessage = "It's Madantory! Name")]
        public string CustName { get; set; }
        [Required(ErrorMessage = "It's Madantory! Address")]
        public string CustAdd { get; set; }
    }
}
```

HomeController:

```
using CustomerMVC.Models;
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Mvc;
```

```
namespace CustomerMVC.Controllers
{
    public class HomeController : Controller
    {
        // GET: Home
        public ActionResult Index()
        {
            return View();
        }

        [HttpGet]
        public ActionResult CustomerInput()
        {
            return View();
        }

        [HttpPost]
        public ViewResult CustomerInput(Customer c1)
        {
            if(ModelState.IsValid)
            {
                return View("CustomerDisplay",c1);
            }
            else
            {
                return View();
            }
        }
    }
}
```

```
    }  
  }  
}
```

Index.cshtml:

```
@{
```

```
    Layout = null;
```

```
}
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
    <meta name="viewport" content="width=device-width" />
```

```
    <title>Index</title>
```

```
    <link href="~/Content/bootstrap.css" rel="stylesheet" />
```

```
    <link href="~/Content/bootstrap-theme.css" rel="stylesheet" />
```

```
    <style>
```

```
        .btn a {
```

```
            color: white;
```

```
            text-decoration: none
```

```
        }
```

```
        body {
```

```
            background-color: #F1F1F1;
```

```
        }
```

```
    </style>
```

```
</head>
<body>
  <div>
    <div class="text-center">
      <p><h1>Customer Information System </h1><br /> </p>
      <div class="btn btn-success">
        @Html.ActionLink("Add Customer Details", "CustomerInput")
      </div>
    </div>
  </div>
</body>
</html>
```

CustomerInput.cshtml:

```
@model CustomerMVC.Models.Customer
```

```
@{
    Layout = null;
}
```

```
<!DOCTYPE html>
```

```
<html>
<head>
  <meta name="viewport" content="width=device-width" />
  <title>CustomerInput</title>
  <style>
    .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;
}
```

```
</style>
```

```
<link href="../../Content/bootstrap.css" rel="stylesheet" />
```

```
<link href="../../Content/bootstrap-theme.css" rel="stylesheet" />
```

```
</head>
```

```
<body>
```

```
<div class="panel panel-success">
```

```
<div class="panel-heading text-center">
```

```
<h4>
    Customer Information
    System
</h4>
</div>
```

```
@using (Html.BeginForm())
{
    @Html.ValidationSummary()
    <p>Customer ID:    @Html.TextBoxFor(x => x.CustId) </p> <br />
    <p>Customer Name:  @Html.TextAreaFor(x => x.CustName)</p><br />
    <p>Customer Address: @Html.TextAreaFor(x => x.CustAdd)</p><br />
    <div class="btn btn-sucess">
        <input type="submit" value="SubmitData" />
    </div>
}
</div>
</body>
</html>
```

CustomerDisplay.cshtml:

```
@model CustomerMVC.Models.Customer

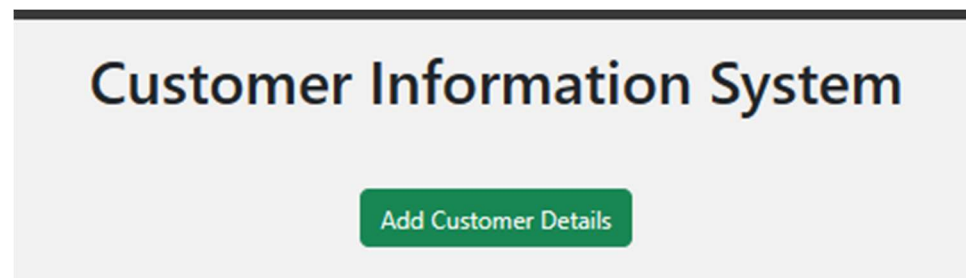
@{
    Layout = null;
}

<!DOCTYPE html>
```

```
<html>
<head>
  <meta name="viewport" content="width=device-width" />
  <title>CustomerDisplay</title>
</head>
<body>
  <div>
    <h3>Customer Information System</h3>
    <p>Customer Id:   @Model.CustId</p> <br />
    <p>Customer Name: @Model.CustName</p> <br />
    <p>Customer Address: @Model.CustAdd</p> <br />

  </div>
</body>
</html>
```

Output:



Customer Information System

Customer ID:

Customer Name:

Customer Address:

Customer Information System

Customer Id: 1

Customer Name: Devyani

Customer Address: Ratnagiri

Q3. Create an MVC application to demonstrate extension methods and use layout.

RoteConfig.cs:

```
using System.Web.Mvc;
using System.Web.Routing;

namespace MVCApp3
{
    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 = "UseExtension", id =
UrlParameter.Optional }
            );
        }
    }
}
```

Product.cs:

```
namespace MVCApp3.Models
{
    public class Product
```

```
{  
    public int ProductID { get; set; }  
    public string Name { get; set; }  
    public decimal Price { get; set; }  
}  
}
```

ShoppingCart.cs:

```
using System.Collections.Generic;
```

```
namespace MVCApp3.Models  
{  
    public class ShoppingCart  
    {  
        public List<Product> Products { get; set; }  
    }  
}
```

MyExtensionMethod.cs:

```
namespace MVCApp3.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;
}
}
}

```

HomeController.cs:

```

using MVCApp3.Models;
using System;
using System.Collections.Generic;
using System.Web.Mvc;
namespace MVCApp3.Controllers
{
    public class HomeController : Controller
    {
        // GET: Home
        public ActionResult Index()
        {
            return View();
        }
        public ViewResult UseExtension()
        {
            ShoppingCart cart = new ShoppingCart
            {
                Products = new List<Product>
                {
                    new Product {ProductID=1, Name="Kayak", Price=275M},

```

```

        new Product {ProductID=2, Name="LifeJacket", Price=48.95M},
        new Product {ProductID=3, Name="Soccer Ball", Price=19.50M},
        new Product {ProductID=4, Name="Corner Flag", Price=34.95M},
    }
};
decimal cartTotal = cart.TotalPrices();
return View("Result", (object)String.Format("Total: {0:c}", cartTotal));
}
}
}

```

_LayoutPage1.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="http://flipkart.com">flipkart</a></h2>

</body>

```


</html>

Output:

Product Information

Total: \$378.40

Visit [flipkart](#)