**Q1 MVC App**

**Model class**

using System;

using System.Collections.Generic;

using System.ComponentModel.DataAnnotations;

using System.Linq;

using System.Web;

namespace ExamWebAppShivamMogal.Models

{

public class Product

{

[Required (ErrorMessage ="ProudctId is Required ! ")]

[Display (Name ="Product Id")]

public int ProductId { set; get; }

[Required(ErrorMessage = "ProductName is Required ! ")]

[Display(Name = "Product Name")]

public string ProductName { set; get; }

[Required(ErrorMessage = "ProductName is Required ! ")]

[Display(Name = "Rate")]

public decimal Rate { set; get; }

[Required(ErrorMessage = "Discription is Required ! ")]

[Display(Name = "Discription")]

public string Discription { set; get; }

[Required(ErrorMessage = "CategoryName is Required ! ")]

[Display(Name = "Category Name")]

public string CategoryName { set; get; }

}

}

**Controller**

using ExamWebAppShivamMogal.Models;

using System;

using System.Collections.Generic;

using System.Data.SqlClient;

using System.Linq;

using System.Web;

using System.Web.Mvc;

namespace ExamWebAppShivamMogal.Controllers

{

public class ProductsController : Controller

{

// GET: Products

public ActionResult Index()

{

List<Product> lst = new List<Product>();

SqlConnection cn = new SqlConnection();

cn.ConnectionString = @"Data Source=(localdb)\MSSQLLocalDB;Initial Catalog=JkJan22;Integrated Security=True;Connect Timeout=30;Encrypt=False;TrustServerCertificate=False;ApplicationIntent=ReadWrite;MultiSubnetFailover=False";

cn.Open();

SqlCommand cmd = new SqlCommand();

cmd.Connection = cn;

cmd.CommandType = System.Data.CommandType.StoredProcedure;

cmd.CommandText = "GetAllProducts";

SqlDataReader dr=null;

try

{

dr = cmd.ExecuteReader();

while (dr.Read())

{

lst.Add(new Product {ProductId=dr.GetInt32(0),ProductName=dr.GetString(1),Rate=dr.GetDecimal(2),Discription=dr.GetString(3),CategoryName=dr.GetString(4) });

}

}

catch (Exception ex)

{

}

finally

{

dr.Close();

cn.Close();

}

return View(lst);

}

// GET: Products/Edit/5

public ActionResult Edit(int id)

{

return View();

}

// POST: Products/Edit/5

[HttpPost]

public ActionResult Edit(int id, Product prod)

{

SqlConnection cn = new SqlConnection();

cn.ConnectionString = @"Data Source=(localdb)\MSSQLLocalDB;Initial Catalog=JkJan22;Integrated Security=True;Connect Timeout=30;Encrypt=False;TrustServerCertificate=False;ApplicationIntent=ReadWrite;MultiSubnetFailover=False";

cn.Open();

SqlCommand cmd = new SqlCommand();

cmd.Connection = cn;

cmd.CommandType = System.Data.CommandType.StoredProcedure;

cmd.CommandText = "UpdateProduct";

cmd.Parameters.AddWithValue("@ProductId", id);

cmd.Parameters.AddWithValue("@ProductName", prod.ProductName);

cmd.Parameters.AddWithValue("@Rate", prod.Rate);

cmd.Parameters.AddWithValue("@Description", prod.Discription);

cmd.Parameters.AddWithValue("@CategoryName", prod.CategoryName);

try

{

// TODO: Add update logic here

cmd.ExecuteNonQuery();

return RedirectToAction("Index");

}

catch

{

cn.Close();

return View();

}

}

}

}

**View- Index**

@model IEnumerable<ExamWebAppShivamMogal.Models.Product>

@{

ViewBag.Title = "Index";

Layout = "~/Views/Shared/\_CustomLayout.cshtml";

}

<h2>Index</h2>

<p>

@Html.ActionLink("Create New", "Create")

</p>

<table class="table">

<tr>

<th>

@Html.DisplayNameFor(model => model.ProductId)

</th>

<th>

@Html.DisplayNameFor(model => model.ProductName)

</th>

<th>

@Html.DisplayNameFor(model => model.Rate)

</th>

<th>

@Html.DisplayNameFor(model => model.Discription)

</th>

<th>

@Html.DisplayNameFor(model => model.CategoryName)

</th>

<th></th>

</tr>

@foreach (var item in Model)

{

<tr>

<td>

<a href="Edit">@Html.DisplayFor(modelItem => item.ProductId) </a>

</td>

<td>

@Html.DisplayFor(modelItem => item.ProductName)

</td>

<td>

@Html.DisplayFor(modelItem => item.Rate)

</td>

<td>

@Html.DisplayFor(modelItem => item.Discription)

</td>

<td>

@Html.DisplayFor(modelItem => item.CategoryName)

</td>

<td>

@Html.ActionLink("Edit", "Edit", new { id = item.ProductId }) |

@Html.ActionLink("Details", "Details", new { id = item.ProductId }) |

@Html.ActionLink("Delete", "Delete", new { id = item.ProductId })

</td>

</tr>

}

</table>

@Html.Partial("PartialView")

**View- Edit**

@model ExamWebAppShivamMogal.Models.Product

@{

ViewBag.Title = "Edit";

Layout = "~/Views/Shared/\_CustomLayout.cshtml";

}

<h2>Edit</h2>

@using (Html.BeginForm())

{

@Html.AntiForgeryToken()

<div class="form-horizontal">

<h4>Product</h4>

<hr />

@Html.ValidationSummary(true, "", new { @class = "text-danger" })

@Html.HiddenFor(model => model.ProductId)

<div class="form-group">

@Html.LabelFor(model => model.ProductId, htmlAttributes: new { @class = "control-label col-md-2" })

<div class="col-md-10">

@Html.DisplayFor(model => model.ProductId)

@Html.ValidationMessageFor(model => model.ProductId, "", new { @class = "text-danger" })

</div>

</div>

<div class="form-group">

@Html.LabelFor(model => model.ProductName, htmlAttributes: new { @class = "control-label col-md-2" })

<div class="col-md-10">

@Html.EditorFor(model => model.ProductName, new { htmlAttributes = new { @class = "form-control" } })

@Html.ValidationMessageFor(model => model.ProductName, "", new { @class = "text-danger" })

</div>

</div>

<div class="form-group">

@Html.LabelFor(model => model.Rate, htmlAttributes: new { @class = "control-label col-md-2" })

<div class="col-md-10">

@Html.EditorFor(model => model.Rate, new { htmlAttributes = new { @class = "form-control" } })

@Html.ValidationMessageFor(model => model.Rate, "", new { @class = "text-danger" })

</div>

</div>

<div class="form-group">

@Html.LabelFor(model => model.Discription, htmlAttributes: new { @class = "control-label col-md-2" })

<div class="col-md-10">

@Html.EditorFor(model => model.Discription, new { htmlAttributes = new { @class = "form-control" } })

@Html.ValidationMessageFor(model => model.Discription, "", new { @class = "text-danger" })

</div>

</div>

<div class="form-group">

@Html.LabelFor(model => model.CategoryName, htmlAttributes: new { @class = "control-label col-md-2" })

<div class="col-md-10">

@Html.EditorFor(model => model.CategoryName, new { htmlAttributes = new { @class = "form-control" } })

@Html.ValidationMessageFor(model => model.CategoryName, "", new { @class = "text-danger" })

</div>

</div>

<div class="form-group">

<div class="col-md-offset-2 col-md-10">

<input type="submit" value="Update" class="btn btn-default" />

</div>

</div>

</div>

}

<div>

@Html.ActionLink("Back to Index", "Index")

</div>

@Html.Partial("PartialView")

**Custom Layout**

@{

Layout = null;

}

<!DOCTYPE html>

<html>

<head>

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

<title>\_CustomLayout</title>

</head>

<body>

<div>

<div class="bg-dark text-light " style="height:150px">

<h1> Custom Layout Page </h1>

</div>

@RenderBody()

<div class="bg-dark text-light" style="height:150px">

<h3> Thank You </h3>

</div>

</div>

</body>

</html>

**Partial View**

<div style="border:3px solid green; margin-top:25px; margin-bottom:25px">

<div> <h3>Partial View</h3></div>

<div>

<h4> Created By-Shivam Mogal</h4>

<h5> Center = Juhu</h5>

<h5> Roll Number = 210940520089</h5>

</div>

</div>