HomeController.cs

**using** **System**;

**using** **System.Collections.Generic**;

**using** **System.Collections.Specialized**;

**using** **System.Diagnostics**;

**using** **System.Linq**;

**using** **System.Web**;

**using** **System.Web.Mvc**;

**namespace** **WebApplication1.Controllers**

{

**public** **class** **HomeController** : Controller

{

*/// <summary>*

*/// Get for index home page*

*/// </summary>*

*/// <returns>View of index home page</returns>*

**public** ActionResult Index()

{

**return** View();

}

*/// <summary>*

*/// Initial get for page one*

*/// </summary>*

*/// <returns>View for page one</returns>*

[HttpGet]

**public** ActionResult PageOne()

{

ViewBag.Rows = 0;

ViewBag.Columns = 0;

**return** (View());

}

*/// <summary>*

*/// Post for the table builder page.*

*/// </summary>*

*/// <param name="form">Used to differentiate with httpget for page one</param>*

*/// <returns>View for page one with information in viewbag</returns>*

[HttpPost]

**public** ActionResult PageOne(FormCollection form)

{

NameValueCollection pairs = Request.Form;

ViewBag.Rows = int.Parse(pairs["Rows"]);

ViewBag.Columns = int.Parse(pairs["Columns"]);

**return** (View());

}

*/// <summary>*

*/// Initial get for progress bar builder page*

*/// </summary>*

*/// <returns>View of progress bar page</returns>*

[HttpGet]

**public** ActionResult PageTwo()

{

ViewBag.BarValue = 0;

string inputVal = Request.QueryString["Value"];

**if** (inputVal != **null**)

{

ViewBag.BarValue = int.Parse(inputVal);

}

**if** (ViewBag.BarValue < 0)

{

ViewBag.BarValue = 0;

}

**if** (ViewBag.BarValue > 100)

{

ViewBag.BarValue = 100;

}

**return** (View());

}

*/// <summary>*

*/// Initial get for loan calculator page*

*/// </summary>*

*/// <returns>Loan calculator page</returns>*

[HttpGet]

**public** ActionResult PageThree()

{

**return** (View());

}

*/// <summary>*

*/// Builds information for loan calculator page*

*/// </summary>*

*/// <param name="LoanAmount">The loan amount</param>*

*/// <param name="InterestRate">The interest rate</param>*

*/// <param name="TermLength">The term length</param>*

*/// <returns>Loan calculator page</returns>*

[HttpPost]

**public** ActionResult PageThree(double? LoanAmount, double? InterestRate, double? TermLength)

{

**if** (LoanAmount == **null** || InterestRate == **null** || TermLength == **null**)

{

ViewBag.Valid = **false**;

}

**else**

{

ViewBag.Valid = **true**;

double payment = (LoanAmount.Value \* (InterestRate.Value / -100.0)) / (1 - Math.Pow((1 + (InterestRate.Value / 100.0)), TermLength.Value));

ViewBag.Payment = payment;

}

**return** (View());

}

}

}

Shared Layout \_Layout.cshtml

<!DOCTYPE html>

**<html>**

**<head>**

**<meta** charset="utf-8" **/>**

**<meta** name="viewport" content="width=device-width, initial-scale=1.0"**>**

**<title>**@ViewBag.Title - My ASP.NET Application**</title>**

**<link** href="~/Content/Site.css" rel="stylesheet" type="text/css" **/>**

**<link** href="~/Content/bootstrap.min.css" rel="stylesheet" type="text/css" **/>**

**<script** src="~/Scripts/modernizr-2.6.2.js"**></script>**

**</head>**

**<body>**

**<div** class="navbar navbar-inverse navbar-fixed-top"**>**

**<div** class="container"**>**

**<div** class="navbar-header"**>**

**<button** type="button" class="navbar-toggle" data-toggle="collapse" data-target=".navbar-collapse"**>**

**<span** class="icon-bar"**></span>**

**<span** class="icon-bar"**></span>**

**<span** class="icon-bar"**></span>**

**</button>**

@Html.ActionLink("Application name", "Index", "Home", new { area = "" }, new { @class = "navbar-brand" })

**</div>**

**<div** class="navbar-collapse collapse"**>**

**<ul** class="nav navbar-nav"**>**

**<li>**@Html.ActionLink("Table Builder", "PageOne", "Home")**</li>**

**<li>**@Html.ActionLink("Progress Bar Builder", "PageTwo", "Home")**</li>**

**<li>**@Html.ActionLink("Page Three", "PageThree", "Home")**</li>**

**</ul>**

**</div>**

**</div>**

**</div>**

**<div** class="container body-content"**>**

@RenderBody()

**<hr** **/>**

**<footer>**

**<p>&copy;** @DateTime.Now.Year - My ASP.NET Application**</p>**

**</footer>**

**</div>**

**<script** src="~/Scripts/jquery-1.10.2.min.js"**></script>**

**<script** src="~/Scripts/bootstrap.min.js"**></script>**

**</body>**

**</html>**

Index.cshtml

@{

ViewBag.Title = "Index";

}

**<h2>**This is the index page**</h2>**

PageOne.cshtml

@{

ViewBag.Title = "PageOne";

}

**<h2>**Table Builder**</h2>**

**<form** method="post"**>**

**<h4>**Rows**</h4>**

**<input** type="number" name="Rows" value="10" **/>**

**<h4>**Columns**</h4>**

**<input** type="number" name="Columns" value="10" **/>**

**<input** type="submit" name="Build" value="Submit" **/>**

**</form>**

**<div** class="row"**>**

**<div** class="col-md-6"**>**

**<table** class="table table-striped"**>**

@for (int row = 0; row **< ViewBag.Rows**; row++)

{

<tr**>**

@for (int col = 0; col **< ViewBag.Columns**; col++)

{

<td**>**Entry**</td>**

}

**</tr>**

}

**</table>**

**</div>**

**</div>**

PageTwo.cshtml

@{

ViewBag.Title = "PageTwo";

}

**<h2>**Progress Bar Builder**</h2>**

**<form** method="get"**>**

**<h4>**Bar Percentage**</h4>**

**<input** type="number" name="Value" value="@ViewBag.BarValue" **/>**

**<input** type="submit" name="Build" value="Submit" **/>**

**</form>**

@if (ViewBag.BarValue != 0)

{

**<p></p>**

**<div** class="progress"**>**

**<div** class="progress-bar" role="progressbar" aria-valuenow="@ViewBag.BarValue" aria-valuemin="0" aria-valuemax="100" style="width: @ViewBag.BarValue%;"**>**

@ViewBag.BarValue

**</div>**

**</div>**

}

PageThree.cshtml

@{

ViewBag.Title = "PageThree";

}

**<h2>**Loan Calculator**</h2>**

@if (ViewBag.Valid != null)

{

if (ViewBag.Valid)

{

**<h1>**Calculated Payment : @ViewBag.Payment**</h1>**

}

else

{

**<h1>**Please enter all the information correctly. Must include all fields and must only input numbers.**</h1>**

}

}

**<form** method="post"**>**

**<h4>**Loan Amount**</h4>**

**<input** type="number" name="LoanAmount" value="LoanAmount" **/>**

**<h4>**Interest Rate**</h4>**

**<input** type="number" name="InterestRate" value="InterestRate" **/>**

**<h4>**Term Length**</h4>**

**<input** type="number" name="TermLength" value="TermLength" **/>**

**<input** type="submit" name="Calculate" value="calculate" **/>**

**</form>**