using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace hw5.bowden

{

public partial class Help : System.Web.UI.Page

{

//transfer page to InterestCalculator Page

protected void btnOK\_Click(object sender, EventArgs e)

{

Response.Redirect("InterestCalculator.aspx");

}//end btnOK\_Click

}

}

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace hw5.bowden

{

public partial class InterestCalculator : System.Web.UI.Page

{

//class level variables

double loanAmount = 0;

double loanTerm = 0;

double interestRate = 0;

//alert function

private void MessageBoxShow(string message)

{

//write javascript to the client to create an alert

ClientScript.RegisterStartupScript(this.GetType(), "myalert", "alert('" + message + "');", true);

}//end MessageBoxShow

//make sure LoanAmount is a valid double

private string ValidateLoanAmount(string InputString)

{

//main try catch block

try

{

//convert our input string to a double value

loanAmount = Double.Parse(InputString);

//prevent a zero dollar loan amount

if (loanAmount == 0)

{

throw new System.Exception("zero dollar loanAmount");

}

//return an empty string to indicate success.

return "";

}

catch

{

//return an error message

return "Loan Amount is not valid\\n";

}

}//end ValidateLoanAmount

//make sure that InterestRate is valid double

private string ValidateInterestRate(string InputString)

{

//main try catch block

try

{

//convert our input string to a double value

interestRate = Double.Parse(InputString);

//return an empty string to indicate success.

return "";

}

catch

{

//return an error message

return "Interest Rate is not valid\\n";

}

}//end ValidateInterestRate

//make sure LoanTerm is a valid double

private string ValidateLoanTerm(string InputString)

{

//main try catch block

try

{

//convert our input string to a double value

loanTerm = Double.Parse(InputString);

//loanTerm must be greater than zero because it represent a period of time

if(loanTerm<= 0)

{

throw new System.Exception();

}

//return an empty string to indicate success.

return "";

}

catch

{

//return an error message

return "Loan Term is not valid\\n";

}

}//end ValidateLoanTerm

//runs all three validate procedures

private bool ValidateAll()

{

//start with a blank alert message

string alertMessage = "";

//run each individual validation procedure

alertMessage = ValidateLoanAmount(this.txtLoanAmount.Text);

alertMessage += ValidateLoanTerm(this.txtLoanTerm.Text);

alertMessage += ValidateInterestRate(this.txtInterestRate.Text);

//determine if we had an error

if (alertMessage.Length > 0)

{

MessageBoxShow(alertMessage);

return false;

}

else

{

return true;

}

}//end ValidateAll

//transfer page to Help Page

protected void btnHelp\_Click(object sender, EventArgs e)

{

Response.Redirect("Help.aspx?Scr=");

}//end btn Help\_Click

//calculate

protected void btnCalculate\_Click(object sender, EventArgs e)

{

//set the incoming data and validate the values

if (ValidateAll())

{

//perform the loan calculation

double loanM = (interestRate / 1200.0);

double numberMonths = loanTerm \* 12;

double negNumberMonths = 0 - numberMonths;

double monthlyPayment = loanAmount \* loanM / (1 - System.Math.Pow((1 + loanM), negNumberMonths));

//write the payment to the web page

txtMonthlyPayment.Text = String.Format("{0:C2}", monthlyPayment);

}

}//end btn Calculate\_Click

}

}

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Help.aspx.cs" Inherits="hw5.bowden.Help" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head runat="server">

<title></title>

<style type="text/css">

.auto-style1 {

width: 100%;

}

</style>

</head>

<body>

<form id="form1" runat="server">

<div>

<table class="auto-style1">

<tr>

<td style="text-align: center">This is a help page for a financial calculator application.</td>

</tr>

<tr>

<td>&nbsp;</td>

</tr>

<tr>

<td style="text-align: center"><asp:Button ID="btnOK" runat="server" Text="OK" OnClick="btnOK\_Click" /></td>

</tr>

</table>

</div>

</form>

</body>

</html>

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="InterestCalculator.aspx.cs" Inherits="hw5.bowden.InterestCalculator" %>

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<div>

<table class="auto-style1">

<tr>

<td>Loan Amount</td>

<td><asp:TextBox ID="txtLoanAmount" runat="server"></asp:TextBox></td>

</tr>

<tr>

<td>Loan Term In Years</td>

<td><asp:TextBox ID="txtLoanTerm" runat="server"></asp:TextBox></td>

</tr>

<tr>

<td>Interest Rate %</td>

<td><asp:TextBox ID="txtInterestRate" runat="server"></asp:TextBox></td>

</tr>

<tr>

<td><asp:Button ID="btnCalculate" runat="server" Text="Calculate" OnClick="btnCalculate\_Click" /></td>

<td><asp:Button ID="btnHelp" runat="server" Text="Help" OnClick="btnHelp\_Click" /></td>

</tr>

<tr>

<td>Monthly Payment</td>

<td><asp:TextBox ID="txtMonthlyPayment" runat="server" ></asp:TextBox></td>

</tr>

</table>

</div>

</form>

</body>

</html>