C# Code

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

using System.Globalization;

namespace NadimRifaiiProject\_I3332

{

public partial class WebForm1 : System.Web.UI.Page

{

private static double numCustomers=0, totalAmount = 0;

protected void Page\_Load(object sender, EventArgs e)

{

if (!IsPostBack)

{

Session["numCustomers"] = 0;

Session["totalAmount"] = 0;

}

else {

Session["numCustomers"] = numCustomers;

Session["totalAmount"] = totalAmount;

}

numCustomers = Convert.ToDouble(Session["numCustomers"]);

totalAmount = Convert.ToDouble(Session["totalAmount"]);

DateValidator.ValueToCompare = DateTime.Today.ToShortDateString();

change();

Page.MaintainScrollPositionOnPostBack = true;

}

protected void RadioButtonList1\_SelectedIndexChanged(object sender, EventArgs e)

{

change();

Page.MaintainScrollPositionOnPostBack = true;

}

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

{

DateValidator.ValueToCompare = DateTime.Today.ToShortDateString();

change();

Page.MaintainScrollPositionOnPostBack = true;

}

protected void Types\_SelectedIndexChanged(object sender, EventArgs e)

{

change();

Page.MaintainScrollPositionOnPostBack = true;

}

protected void CardNumber\_TextChanged(object sender, EventArgs e) {

change();

Page.MaintainScrollPositionOnPostBack = true;

}

protected void change()

{

string selectedType = Types.SelectedItem.Text;

if (selectedType.CompareTo("Master Card") == 0)

{

CardValidator.ValidationExpression = "^(5[1-5][0-9]{14})$";

CardValidator.ErrorMessage = "Master Card Should start with number between 51 and 55 with length of 16";

}

else if (selectedType.CompareTo("Visa Card") == 0)

{

CardValidator.ValidationExpression = "^4[0-9]{12}([0-9]{3})?$";

CardValidator.ErrorMessage = "Visa Card Should start with 4 and it's length is 13 or 16";

}

else if (selectedType.CompareTo("American Express") == 0)

{

CardValidator.ValidationExpression = "^(34|37)[0-9]{13}";

CardValidator.ErrorMessage = "American Express Should start with 34 or 37 with length of 13";

}

else

{

CardValidator.ValidationExpression = ".";

CardValidator.ErrorMessage = "Invalid";

}

}

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

{

if (List.Items.Count>0) {

if (List.SelectedItem != null)

{

if (List.SelectedIndex == -1) { }

numCustomers--;

Num.Text = numCustomers.ToString();

string[] parts = List.SelectedItem.Text.Split(';');

double am = Convert.ToDouble(parts[1]);

totalAmount -= am;

Am.Text = totalAmount.ToString();

List.Items.Remove(List.SelectedItem);

}

}

Page.MaintainScrollPositionOnPostBack = true;

}

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

{

if (!IsPostBack)

{

return;

}

if (List.SelectedIndex>0) {

string name = List.SelectedItem.Text.Split(';')[0];

string amount = List.SelectedItem.Text.Split(';')[1];

if (List.SelectedIndex !=0)

{

List.SelectedItem.Text = List.Items[List.SelectedIndex - 1].Text;

List.Items[List.SelectedIndex - 1].Text = name + ";" + amount;

List.SelectedIndex--;

}

}

Page.MaintainScrollPositionOnPostBack = true;

}

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

{

if (!IsPostBack)

{

return;

}

if (List.SelectedIndex < numCustomers) {

string name = List.SelectedItem.Text.Split(';')[0];

string amount = List.SelectedItem.Text.Split(';')[1];

if (List.SelectedIndex + 1 < numCustomers) {

List.SelectedItem.Text = List.Items[List.SelectedIndex + 1].Text;

List.Items[List.SelectedIndex + 1].Text = name + ";" + amount;

List.SelectedIndex++;

}

}

Page.MaintainScrollPositionOnPostBack = true;

}

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

{

if (!IsPostBack)

{

return;

}

string format = Name.Text + ";" + Amount.Text;

List.Items.Add(format);

numCustomers += 1;

Num.Text = numCustomers.ToString();

totalAmount += Convert.ToDouble(Amount.Text);

Am.Text = totalAmount.ToString();

Page.MaintainScrollPositionOnPostBack = true;

}

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

{

if (!IsPostBack)

{

return;

}

Name.Text = "";

Password.Text = "";

RePassword.Text = "";

Email.Text = "";

Age.Text = "";

Address.Text = "";

Postal.Text = "";

CardNumber.Text = "";

ExpiryDate.Text = "";

Key.Text = "";

Amount.Text = "";

Page.MaintainScrollPositionOnPostBack = true;

}

}}

HTML code

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs" Inherits="NadimRifaiiProject\_I3332.WebForm1" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

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

<head runat="server">

<title></title>

<style type="text/css">

table

{

width: 866px;

margin:auto;

}

.style2

{

width: 268px;

}

.style3

{

width: 124px;

}

.style4

{

width: 525px;

}

.style5

{

width: 866px;

margin:auto;

}

.style6

{

width: 177px;

}

.style7

{

width: 292px;

}

.style8

{

width: 866px;

margin:auto;

}

.style9

{

width: 147px;

}

.style10

{

width: 433px;

}

.style11

{

width: 866px;

margin:auto;

}

.style12

{

width: 287px;

}

.style13

{

width: 283px;

}

.style14

{

width: 147px;

height: 29px;

}

.style15

{

width: 433px;

height: 29px;

}

.style16

{

height: 29px;

}

.style17

{

width: 866px;

margin:auto;

}

.style17

{

width:fit-content;

}

.style30

{

}

.style32

{

width: 114px;

}

.style35

{

width: 37px;

}

.style36

{

width: 120px;

}

.style37

{

width: 243px;

}

</style>

</head>

<body>

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

<h1 style="text-align:center" >Connection Information</h1>

<table class="style1">

<tr>

<td class="style2">

E\_Mail:</td>

<td class="style3">

<asp:TextBox ID="Email" runat="server" Width="322px"></asp:TextBox>

</td>

<td class="style4">

<asp:RequiredFieldValidator ID="RequiredFieldValidator8" runat="server"

ControlToValidate="Email" Display="Dynamic" ErrorMessage="Required Field"

ForeColor="Red"></asp:RequiredFieldValidator>

<asp:RegularExpressionValidator ID="RegularExpressionValidator1" runat="server"

ControlToValidate="Email" Display="Dynamic"

ErrorMessage="Should be of the form email@hote.domain" ForeColor="Red"

ValidationExpression="\w+([-+.']\w+)\*@\w+([-.]\w+)\*\.\w+([-.]\w+)\*"

SetFocusOnError="False" ValidationGroup="ValidationGroup1"></asp:RegularExpressionValidator>

</td>

</tr>

<tr>

<td class="style2">

Password:</td>

<td class="style3">

<asp:TextBox ID="Password" runat="server" Width="322px" AutoPostBack="False"

TextMode="Password"></asp:TextBox>

</td>

<td class="style4">

<asp:RegularExpressionValidator ID="RegularExpressionValidator2" runat="server"

ControlToValidate="Password" Display="Dynamic"

ErrorMessage="Should be at least 8 characters" ForeColor="Red"

ValidationExpression="\w{8,}"></asp:RegularExpressionValidator>

<asp:RequiredFieldValidator ID="RequiredFieldValidator9" runat="server"

ControlToValidate="Password" Display="Dynamic" ErrorMessage="Required Field"

ForeColor="Red"></asp:RequiredFieldValidator>

</td>

</tr>

<tr>

<td class="style2">

Re-Write Password:</td>

<td class="style3">

<asp:TextBox ID="RePassword" runat="server" style="margin-right: 3px"

Width="323px" TextMode="Password"></asp:TextBox>

</td>

<td class="style4">

<asp:CompareValidator ID="CompareValidator1" runat="server"

ControlToCompare="Password" ControlToValidate="RePassword" Display="Dynamic"

ErrorMessage="Passwords should match" ForeColor="Red"></asp:CompareValidator>

</td>

</tr>

</table>

<br />

<h1 style="text-align:center" >Personal Information</h1>

<table class="style5">

<tr>

<td class="style6">

Name:</td>

<td class="style7">

<asp:TextBox ID="Name" runat="server" Width="322px"></asp:TextBox>

</td>

<td>

<asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server"

ControlToValidate="Name" Display="Dynamic" ErrorMessage="Required Field"

ForeColor="Red"></asp:RequiredFieldValidator>

</td>

</tr>

<tr>

<td class="style6">

Age:</td>

<td class="style7">

<asp:TextBox ID="Age" runat="server" Width="322px"></asp:TextBox>

</td>

<td>

<asp:CompareValidator ID="AgeValidator" runat="server" ControlToValidate="Age"

Display="Dynamic" ErrorMessage="Should be &gt;=18" ForeColor="Red"

Operator="GreaterThanEqual" Type="Integer" ValueToCompare="18"></asp:CompareValidator>

<asp:RequiredFieldValidator ID="RequiredFieldValidator2" runat="server"

ControlToValidate="Age" Display="Dynamic" ErrorMessage="Required Field"

ForeColor="Red"></asp:RequiredFieldValidator>

</td>

</tr>

<tr>

<td class="style6">

Address</td>

<td class="style7">

<asp:TextBox ID="Address" runat="server" TextMode="MultiLine" Width="322px"></asp:TextBox>

</td>

<td>

<asp:RequiredFieldValidator ID="RequiredFieldValidator10" runat="server"

ControlToValidate="Address" Display="Dynamic" ErrorMessage="Required Field"

ForeColor="Red"></asp:RequiredFieldValidator>

</td>

</tr>

<tr>

<td class="style6">

Postal Code:</td>

<td class="style7">

<asp:TextBox ID="Postal" runat="server" Width="322px"></asp:TextBox>

</td>

<td>

<asp:RegularExpressionValidator ID="RegularExpressionValidator3" runat="server"

ControlToValidate="Postal" Display="Dynamic"

ErrorMessage="Should be composed of 5 digits" ForeColor="Red"

ValidationExpression="\d{5}"></asp:RegularExpressionValidator>

<asp:RequiredFieldValidator ID="RequiredFieldValidator3" runat="server"

ControlToValidate="Postal" Display="Dynamic" ErrorMessage="Required Field"

ForeColor="Red"></asp:RequiredFieldValidator>

</td>

</tr>

</table>

<h1 style="text-align:center">Credit Card Details</h1>

<br />

<table class="style8">

<tr>

<td class="style9">

Type of card:</td>

<td class="style10">

<asp:RadioButtonList ID="Types" runat="server"

RepeatDirection="Horizontal" Width="410px" AutoPostBack="True" onselectedindexchanged="Types\_SelectedIndexChanged"

>

<asp:ListItem Selected="True" Value="m" >Master Card</asp:ListItem>

<asp:ListItem Value="v">Visa Card</asp:ListItem>

<asp:ListItem Value="a">American Express</asp:ListItem>

</asp:RadioButtonList>

</td>

<td>

&nbsp;</td>

</tr>

<tr>

<td class="style14">

Card Number:</td>

<td class="style15">

<asp:TextBox ID="CardNumber" runat="server" Width="322px"

ontextchanged="CardNumber\_TextChanged"></asp:TextBox>

</td>

<td class="style16">

<asp:RegularExpressionValidator ID="CardValidator" runat="server"

ControlToValidate="CardNumber" ForeColor="Red" Display="Dynamic"></asp:RegularExpressionValidator>

<asp:RequiredFieldValidator ID="RequiredFieldValidator11" runat="server"

ControlToValidate="CardNumber" Display="Dynamic" ErrorMessage="RequiredField"

ForeColor="Red"></asp:RequiredFieldValidator>

</td>

</tr>

<tr>

<td class="style9">

Expiry Date:</td>

<td class="style10">

<asp:TextBox ID="ExpiryDate" runat="server" Height="24px" Width="322px"></asp:TextBox>

</td>

<td>

<asp:CompareValidator ID="DateValidator" runat="server"

ControlToValidate="ExpiryDate"

ErrorMessage="Should be greater than current date" ForeColor="Red"

Operator="GreaterThan" Type="Date"></asp:CompareValidator>

<asp:RequiredFieldValidator ID="RequiredFieldValidator5" runat="server"

ControlToValidate="ExpiryDate" ErrorMessage="Required Field" ForeColor="Red"></asp:RequiredFieldValidator>

</td>

</tr>

<tr>

<td class="style9">

Key:</td>

<td class="style10">

<asp:TextBox ID="Key" runat="server" Width="322px"></asp:TextBox>

</td>

<td>

<asp:RegularExpressionValidator ID="RegularExpressionValidator4" runat="server"

ControlToValidate="Key" Display="Dynamic"

ErrorMessage="Should be an integer of 4 digits" ForeColor="Red"

ValidationExpression="\d{4}"></asp:RegularExpressionValidator>

<asp:RequiredFieldValidator ID="RequiredFieldValidator6" runat="server"

ControlToValidate="Key" ErrorMessage="Required Field" ForeColor="Red"></asp:RequiredFieldValidator>

</td>

</tr>

<tr>

<td class="style9">

Amount:</td>

<td class="style10">

<asp:TextBox ID="Amount" runat="server" Width="322px"></asp:TextBox>

</td>

<td>

<asp:CompareValidator ID="CompareValidator2" runat="server"

ControlToValidate="Amount" Display="Dynamic"

ErrorMessage="Should be a positive integer" ForeColor="Red"

Operator="GreaterThan" Type="Integer" ValueToCompare="0"></asp:CompareValidator>

<asp:RequiredFieldValidator ID="RequiredFieldValidator7" runat="server"

ControlToValidate="Amount" ErrorMessage="Required Field" ForeColor="Red"></asp:RequiredFieldValidator>

</td>

</tr>

</table>

<table class="style11">

<tr>

<td class="style12">

<asp:Button ID="Validate" runat="server" onclick="Validate\_Click"

Text="Validate" />

</td>

<td class="style13">

<asp:Button ID="Add" runat="server" Text="Add" onclick="Add\_Click" />

</td>

<td>

<asp:Button ID="Clear" runat="server" Text="Clear" onclick="Clear\_Click"

CausesValidation="False" />

</td>

</tr>

</table>

<h1 style="text-align:center">Customer List</h1>

<table class="style17">

<tr>

<td>

<asp:ListBox ID="List" runat="server" Width="295px"></asp:ListBox>

</td>

<td class="style30" colspan="4">

Nb Customer:<asp:Label ID="Num"

runat="server" Text="0"></asp:Label>

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

Total Amount:<asp:Label ID="Am" runat="server" Text="0"></asp:Label>

</td>

</tr>

<tr>

<td>

<asp:Button ID="Delete" runat="server" onclick="Delete\_Click" Text="Delete"

CausesValidation="False" />

</td>

<td class="style32">

<asp:Button ID="Up" runat="server" onclick="Up\_Click" Text="Up"

CausesValidation="False" UseSubmitBehavior="False" />

</td>

<td class="style35">

&nbsp;</td>

<td class="style36">

<asp:Button ID="Down" runat="server" onclick="Down\_Click" Text="Down"

CausesValidation="False" UseSubmitBehavior="False" />

</td>

<td class="style37">

&nbsp;</td>

</tr>

</table>

<br />

<br />

<br />

<br />

<br />

</form>

</body>

</html>