**Q1.**

**.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

using System.Drawing;

using System.Drawing.Text;

using System.ComponentModel;

namespace Lab3Q1

{

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

{

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

{

if(!this.IsPostBack)

{

string[] color = Enum.GetNames(typeof(KnownColor));

lstBgColor.DataSource = color;

lstBgColor.DataBind();

lstColor.DataSource = color;

lstColor.DataBind();

InstalledFontCollection fonts = new InstalledFontCollection();

foreach(FontFamily font in fonts.Families)

{

lstFont.Items.Add(font.Name);

}

string[] images = { "blue\_bg.jpg", "gradient\_bg.jpg", "wreath\_bg.jpg" };

lstImage.DataSource = images;

lstImage.DataBind();

string[] borders = Enum.GetNames(typeof(BorderStyle));

lstBorder.DataSource = borders;

lstBorder.DataBind();

}

}

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

{

string imageUrl = "BackgroundImages/"+Convert.ToString(lstImage.SelectedValue);

pnlCover.BackImageUrl = imageUrl;

lblCover.Text = txtTitle.Text;

lblCover.Font.Name = lstFont.SelectedItem.Text;

if(txtSize.Text!="")

lblCover.Font.Size = FontUnit.Point(Int32.Parse(txtSize.Text));

lblCover.ForeColor = Color.FromName(lstColor.SelectedItem.Text);

pnlCover.BackColor = Color.FromName(lstBgColor.SelectedItem.Text);

TypeConverter converter = TypeDescriptor.GetConverter(typeof(BorderStyle));

pnlCover.BorderStyle = (BorderStyle)converter.ConvertFromString(lstBorder.SelectedItem.Text);

}

}

}

**.aspx**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="MagzineCover.aspx.cs" Inherits="Lab3Q1.MagzineCover" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div style="width: 267px">

Font Family:&nbsp;&nbsp;

<asp:DropDownList ID="lstFont" runat="server">

</asp:DropDownList>

<br />

Font Color:&nbsp;&nbsp;&nbsp;

<asp:DropDownList ID="lstColor" runat="server">

</asp:DropDownList>

<br />

Size:&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

<asp:TextBox ID="txtSize" runat="server"></asp:TextBox>

<br />

Backgroud Color:&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

<asp:DropDownList ID="lstBgColor" runat="server">

</asp:DropDownList>

<br />

Border:&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

<asp:DropDownList ID="lstBorder" runat="server">

</asp:DropDownList>

<br />

Background Image:

<br />

<asp:ListBox ID="lstImage" runat="server"></asp:ListBox>

<br />

Cover Title:<br />

<asp:TextBox ID="txtTitle" runat="server" Height="80px" Width="169px"></asp:TextBox>

<br />

<br />

<asp:Button ID="btnUpdate" runat="server" Text="Update" OnClick="btnUpdate\_Click" />

</div>

<asp:Panel ID="pnlCover" runat="server" Width="339px" Height="481px" HorizontalAlign="Center" style="position:absolute; top:16px; left:313px;">

<br />

<asp:Label ID="lblCover" runat="server"></asp:Label>

&nbsp;

</asp:Panel>

</form>

</body>

</html>

­­

**Q2.**

**.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Lab3Q1

{

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

{

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

{

if(!this.IsPostBack)

{

string[] emp\_id = { "701", "702", "703", "704" };

lstEmpId.DataSource = emp\_id;

lstEmpId.DataBind();

}

}

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

{

int emp\_id= Convert.ToInt32(lstEmpId.SelectedItem.Text);

string img\_emp = "";

switch(emp\_id)

{

case 701:

img\_emp = "emp1.jpg";

break;

case 702:

img\_emp = "emp2.jpg";

break;

case 703:

img\_emp = "emp3.jpg";

break;

case 704:

img\_emp = "emp4.jpg";

break;

default:

img\_emp = "wreath\_bg.jpg";

break;

}

string emp\_img = "BackgroundImages/" + img\_emp;

imgEmp.ImageUrl = emp\_img;

imgEmp.Visible = true;

}

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

{

if (doj.SelectedDate==null)

{

lblEligible.Text = "Please enter the name and date of joining.";

}

else

{

DateTime zeroTime = new DateTime(1, 1, 1);

DateTime doj1 = doj.SelectedDate;

DateTime now = DateTime.Now;

TimeSpan interval = now - doj1;

int years = (zeroTime + interval).Year - 1;

if (years >= 5)

{

lblEligible.Text = "Yes";

}

else

lblEligible.Text = "No";

}

}

}

}

**.aspx**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Employee.aspx.cs" Inherits="Lab3Q1.Employee" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div>

Employee Id:

<asp:DropDownList ID="lstEmpId" AutoPostBack="true" OnSelectedIndexChanged="lstEmpId\_SelectedIndexChanged" runat="server">

</asp:DropDownList>

<br />

<asp:Image ID="imgEmp" runat="server" Height="98px" Width="104px" />

<br />

Name of the Employee:&nbsp;

<asp:TextBox ID="txtName" runat="server"></asp:TextBox>

<br />

Date of Joining:&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

<asp:Calendar runat="server" ID="doj" ></asp:Calendar>

<br />

<br />

<asp:Button ID="btnCheck" OnClick="btnCheck\_Click" runat="server" Text="Am I eligible for promotion?" />

<br />

<br />

<asp:Label ID="lblEligible" runat="server"></asp:Label>

</div>

</form>

</body>

</html>

**Q3.**

**.cs**

using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Drawing;

using System.Drawing.Text;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace GreetingCard1

{

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

{

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

{

if(!this.IsPostBack)

{

string[] colorArray = Enum.GetNames(typeof(KnownColor));

lstBackColor.DataSource = colorArray;

lstBackColor.DataBind();

//lstBackColor.Items.Add("White");

//lstBackColor.Items.Add("Red");

//lstBackColor.Items.Add("Green");

//lstBackColor.Items.Add("Blue");

//lstBackColor.Items.Add("Yellow");

InstalledFontCollection fonts = new InstalledFontCollection();

foreach (FontFamily family in fonts.Families)

{

lstFontName.Items.Add(family.Name);

}

//lstFontName.Items.Add("Times New Roman");

//lstFontName.Items.Add("Arial");

//lstFontName.Items.Add("Verdana");

//lstFontName.Items.Add("Tahoma");

string[] borderStyleArray = Enum.GetNames(typeof(BorderStyle));

lstBorder.DataSource = borderStyleArray;

lstBorder.DataBind();

//ListItem item = new ListItem();

//item.Text = BorderStyle.None.ToString();

//item.Value = ((int)BorderStyle.None).ToString();

//lstBorder.Items.Add(item);

//item = new ListItem();

//item.Text = BorderStyle.Double.ToString();

//item.Value = ((int)BorderStyle.Double).ToString();

//lstBorder.Items.Add(item);

//item = new ListItem();

//item.Text = BorderStyle.Solid.ToString();

//item.Value = ((int)BorderStyle.Solid).ToString();

//lstBorder.Items.Add(item);

lstBorder.SelectedIndex = 0;

imgDefault.ImageUrl = "defaultpic.jpg";

imgDefault.Visible = false;

}

}

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

{

pnlCard.BackColor = Color.FromName(lstBackColor.SelectedItem.Text);

lblGreeting.Font.Name = lstFontName.SelectedItem.Text;

if(Int32.Parse(txtFontSize.Text)>0)

{

lblGreeting.Font.Size = FontUnit.Point(Int32.Parse(txtFontSize.Text));

}

TypeConverter converter = TypeDescriptor.GetConverter(typeof(BorderStyle));

pnlCard.BorderStyle = (BorderStyle)converter.ConvertFromString(lstBorder.SelectedItem.Text);

//int borderValue = Int32.Parse(lstBorder.SelectedItem.Value);

//pnlCard.BorderStyle = (BorderStyle)borderValue;

if(chkPicture.Checked)

{

imgDefault.Visible = true;

}

else

{

imgDefault.Visible = false;

}

lblGreeting.Text = txtGreeting.Text;

}

}

}

**.aspx**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="GreetingCardMaker.aspx.cs" Inherits="GreetingCard1.GreetingCardMaker" %>

<!DOCTYPE html>

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

<head runat="server">

<title>Greeting Card Maker</title>

</head>

<body>

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

<div>

Choose a background color:<br />

<asp:DropDownList ID="lstBackColor" AutoPostBack="true" OnSelectedIndexChanged="cmdUpdate\_Click" runat="server" Width="194px" Height="22px"/><br /><br />

Choose a font color:<br />

<asp:DropDownList ID="lstFontName" AutoPostBack="true" OnSelectedIndexChanged="cmdUpdate\_Click" runat="server" Width="194px" Height="22px" /><br /><br />

Specify a numeric font size:<br />

<asp:TextBox ID="txtFontSize" OnTextChanged="cmdUpdate\_Click" AutoPostBack="true" runat="server" /><br /><br />

Choose a border style:<br />

<asp:RadioButtonList ID="lstBorder" OnSelectedIndexChanged="cmdUpdate\_Click" AutoPostBack="true" runat="server" Width="177px" Height="59px" /><br /><br />

<asp:CheckBox ID="chkPicture" OnCheckedChanged="cmdUpdate\_Click" AutoPostBack="true" runat="server" Text="Add the default picture" /><br /><br />

Enter the greeting text below:<br />

<asp:TextBox ID="txtGreeting" OnTextChanged="cmdUpdate\_Click" AutoPostBack="true" runat="server" Width="240px" Height="85px" TextMode="MultiLine" /><br /><br />

<asp:Button ID="cmdUpdate" OnClick="cmdUpdate\_Click" runat="server" Width="71px" Height="24px" Text="Update" />

</div>

<asp:Panel ID="pnlCard" runat="server" Width="339px" Height="481px" HorizontalAlign="Center" style="position:absolute; top:16px; left:313px;">

<br /> &nbsp;

<asp:Label ID="lblGreeting" Width="256px" Height="150px" runat="server" /><br /><br /><br />

<asp:Image ID="imgDefault" runat="server" Width="212px" Height="160px" />

</asp:Panel>

</form>

</body>

</html>

**Q4.**

**.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Lab3Q1

{

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

{

private string[] captchaImgs = { "captcha1.jpg", "captcha2.jpeg", "captcha3.png" };

private string[] captcha = { "qGphJD", "RecAptChA", "MY5N5" };

private int r;

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

{

if(!this.IsPostBack)

{

ViewState["Counter"] = 0;

Random rnd = new Random();

r= rnd.Next(0, 3);

imgCaptcha.ImageUrl = "BackgroundImages/" + captchaImgs[r];

ViewState["index"] = r;

}

}

protected void Button1\_Click(object sender, EventArgs e)

{

if (txtResponse.Text == captcha[(int)ViewState["index"]])

{

lblMsg.Text = "Correct!";

}

else

{

ViewState["Counter"] = (int)ViewState["Counter"] + 1;

lblMsg.Text=”Try Again”;

if((int)ViewState["Counter"]>3)

{

lblMsg.Text = "More than 3 invalid attempts.";

txtResponse.Enabled = false;

}

}

}

}

}

**.aspx**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="CaptchaChecker.aspx.cs" Inherits="Lab3Q1.CaptchaChecker" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div>

Enter the letters you see below:<br />

<asp:TextBox ID="txtResponse" runat="server"></asp:TextBox>

<br />

<br />

<asp:Image ID="imgCaptcha" runat="server" Height="74px" Width="174px" />

&nbsp;&nbsp;

<asp:Label ID="lblMsg" runat="server"></asp:Label>

<br />

<br />

<asp:Button ID="Button1" runat="server" OnClick="Button1\_Click" Text="Submit" />

<br />

<br />

</div>

</form>

</body>

</html>