Online Test Website in ASP.NET using C# and SQL Server Database

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**Default.aspx page design code:**

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs" Inherits="\_Default" %>

<!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>Online Test </title>

<script src="http://ajax.googleapis.com/ajax/libs/jquery/1.7/jquery.min.js" type="text/javascript"></script>

<script>

function StartTest(popUpPage) {

window.open(popUpPage, 'null', 'toolbar=0,scrollbars=1,location=0,statusbar=0,menubar=0,resizable=0,fullscreen=yes');

}

</script>

</head>

<body>

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

<div style=" text-align :center; width:100%">

<table width="1000" border="2" cellpadding="10" style="height: 272px" >

<tr>

<td style="text-align:center;">

<b>

<asp:Label ID="lbstatus" runat="server"

BackColor="Black" BorderColor="Red" Font-Bold="True"

Font-Size="16pt"

ForeColor="#0066FF">CODER BABA Online Test</asp:Label>

</b>

</td>

</tr>

<tr>

<td style="text-align:center;"><b>Start You online Asp.Net Test</b></td>

</tr>

<tr>

<td style="text-align: center;">

<asp:Button ID="btnStartTest" Text="Start Test" runat="server"

OnClientClick="return StartTest('default2.aspx');"

BorderColor="#FF6600" BorderWidth="4px" Height="43px" Width="142px" />

</td>

</tr>

</table>

</div>

</form>

</body>

</html>

**Default.aspx.cs (page C# code):**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

public partial class \_Default : System.Web.UI.Page

{

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

{

if (Request.QueryString["timeout"] != null)

{

lbstatus.Text = "You test time expired, please try again!";

}

}

}

Default2.aspx page:

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default2.aspx.cs" Inherits="Default2" %>

<!DOCTYPE html>

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

<head id="Head1" runat="server">

<title></title>

<script src="http://ajax.googleapis.com/ajax/libs/jquery/1.7/jquery.min.js" type="text/javascript"></script>

</head>

<body oncontextmenu="return false" style=" background: #cccca0;">

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

<asp:ScriptManager ID="ScriptManger" runat="server"></asp:ScriptManager>

<div style="background: #ddffca;margin:0 auto; width:1000px;">

<asp:UpdatePanel ID="updPanel" runat="server" UpdateMode="Always">

<ContentTemplate>

<table style="width: 100%;">

<tr>

<td>

<table style="width: 100%;">

<tr>

<td style="float: left;"><b><span id="timerText"></span><span id="spnthankyou"></span></b></td>

<td style="float: right; background-color: yellow; color: black;"><b><span id="lbresult"></span></b></td>

</tr>

</table>

</td>

</tr>

<tr>

<td>

<asp:GridView ID="grdquestions" runat="server" AutoGenerateColumns="false" OnRowDataBound="grdquestions\_RowDataBound" DataKeyNames="QuestionId" Width="100%">

<Columns>

<asp:TemplateField HeaderText="Asp .Net Online Test">

<ItemTemplate>

<table class="tableclass" id='<%#Eval("QuestionId") %>'>

<tr>

<td><b>Question <%#Eval("QuestionId") %> -: <%#Eval("Question") %></b>

<asp:HiddenField ID="hdnquestionId" runat="server"/>

</td>

</tr>

<tr>

<td>

<table>

<tr>

<td>

<table class="tblOptions">

<tr>

<td>

<asp:RadioButton ID="rdOption1" runat="server" Text='<%#Eval("Option1") %>' GroupName='<%#Eval("QuestionId") %>' />

</td>

</tr>

<tr>

<td>

<asp:RadioButton ID="rdOption2" runat="server" Text='<%#Eval("Option2") %>' GroupName='<%#Eval("QuestionId") %>' />

</td>

</tr>

<tr>

<td>

<asp:RadioButton ID="rdOption3" runat="server" Text='<%#Eval("Option3") %>' GroupName='<%#Eval("QuestionId") %>' /></td>

</tr>

<tr>

<td>

<asp:RadioButton ID="rdOption4" runat="server" Text='<%#Eval("Option4") %>' GroupName='<%#Eval("QuestionId") %>' /></td>

</tr>

<tr>

<td>

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

</td>

</tr>

<tr>

<td class="correctAnswer">Correct Answer Is -:

<asp:Label ID="lbAnswer" runat="server" Text='<%#Eval("QuestionAnswer") %>'></asp:Label>

</td>

</tr>

</table>

</td>

</tr>

</table>

</td>

</tr>

</table>

</ItemTemplate>

</asp:TemplateField>

</Columns>

</asp:GridView>

</td>

</tr>

<tr>

<td>

<asp:Button ID="btnSubmit" runat="server" Text="Submit" CssClass="btn" OnClientClick="return CheckIfAllQuestionAnswerHasBeenSubmitted()" />

</td>

</tr>

</table>

</ContentTemplate>

</asp:UpdatePanel>

<script>

//Set the number of minutes you need

var mins = 1;

var secs = mins \* 60;

var currentSeconds = 0;

var currentMinutes = 0;

var ourtimer;

function StartCountDown() {

ourtimer = setTimeout(Decrement, 1000);

}

function EndCountDown() {

clearTimeout(ourtimer);

}

$(document).ready(function () { StartCountDown(); }); //start the countdown

function Decrement() {

currentMinutes = Math.floor(secs / 60);

currentSeconds = secs % 60;

if (currentSeconds <= 9) currentSeconds = "0" + currentSeconds;

secs--;

document.getElementById("timerText").innerHTML = "Time Remaining " + currentMinutes + ":" + currentSeconds;

if (secs !== -1) {

setTimeout('Decrement()', 1000);

}

else {

window.location.href = "default.aspx?timeout=1"

}

}

function CheckIfAllQuestionAnswerHasBeenSubmitted() {

var numItems = $('.tblOptions').length;

var flagtocheckcount = 0;

$(".tblOptions").each(function () {

var groupname = $('input[type=radio]:first', this).attr('name');

if (!$("input[name='" + groupname + "']:checked").val()) {

$(this).parents(".tableclass").addClass("border");

var tableid = $(this).closest('table [class^="tableclass"]').attr("id");

}

else {

flagtocheckcount = flagtocheckcount + 1;

}

})

if (parseInt(flagtocheckcount) == parseInt(numItems)) {

var CountFinalResult = 0;

$(".tblOptions").each(function () {

var groupname = $('input[type=radio]:first', this).attr('name');

var radioId = $("input[name='" + groupname + "']:checked").attr("id")

var UserSelectedAnswer = $("label[for='" + radioId + "']").text();

var CorrectAnswer = $('span:last-child', this).text();

var CorrectAnswerSpanId = $('span:last-child', this).attr("id");

var QuestionStatus = $("span:nth-last-child(1)", this).attr("id");

if (CorrectAnswer == UserSelectedAnswer) {

$("#" + QuestionStatus).text("Correct Answer").css("color", "green");

$('td.correctAnswer').find("td.correctAnswer", this).css("display", "none");

CountFinalResult = CountFinalResult + 1;

}

else {

//$('table.tblOptions tbody tr td:last-child').addClass("incorrect");

$('span:last-child', this).css({ 'display': 'inline-flex' });

$("#" + QuestionStatus).text("InCorrect Answer").css({ 'color': 'Red' });

$('td.correctAnswer', this).css({ "display": "block", "background-color": "yellow", "color": "red" });

}

});

$("#lbresult").text("Final Result-:" + CountFinalResult + "/7");

$("#btnSubmit").attr("disabled", "disabled"); //disable button if all questions answer has been given

$("#btnSubmit").removeClass("btn");

$("#btnSubmit").addClass("btndiabled");

EndCountDown();

$("#timerText").css("display", "none");

$("#spnthankyou").append("Thank You for submitting your test.")

$("input[type=radio]").attr('disabled', true); //disable all radio button after test submitted by user

return false;

}

else {

return false;

}

}

var CountCheckCheckQuestion = 0; //following function will work on every radio button click

var TotalQuestions = 0;

$("input[type=radio]").click(function () {

var groupname = $(this).attr("name");

$(this).parents(".tableclass").removeClass("border");

CheckTheCountOfQuestionHasBeenAnswered(); //this function to check if all the answer given while selecting radio button you don't need..

// to click on submit button

if (parseInt(CountCheckCheckQuestion) == parseInt(TotalQuestions)) {

CheckIfAllQuestionAnswerHasBeenSubmitted();

}

});

function CheckTheCountOfQuestionHasBeenAnswered() {

TotalQuestions = $('.tblOptions').length;

var TotalGivenAnswerCount = 0;

var flagtocheckcount = 0;

$(".tblOptions").each(function () {

var groupname = $('input[type=radio]:first', this).attr('name');

if (!$("input[name='" + groupname + "']:checked").val()) {

}

else {

TotalGivenAnswerCount = TotalGivenAnswerCount + 1;

}

})

CountCheckCheckQuestion = TotalGivenAnswerCount;

}

</script>

<style>

.border {

border-color: red;

border-width: 2px;

border-style: solid;

width: 100%;

}

.correctAnswer {

display: none;

width: 950px!important;

}

.tblOptions {

width: 100%;

}

.btn {

background: #000000;

background-image: -webkit-linear-gradient(top, #000000, #2980b9);

background-image: -moz-linear-gradient(top, #000000, #2980b9);

background-image: -o-linear-gradient(top, #000000, #2980b9);

background-image: linear-gradient(to bottom, #000000, #2980b9);

-webkit-border-radius: 0;

-moz-border-radius: 0;

border-radius: 6px;

font-family: Arial;

color: #ffffff;

font-size: 19px;

padding: 3px 20px;

text-decoration: none;

}

.btn:hover {

background: #261c61;

background-image: -webkit-linear-gradient(top, #261c61, #3498db);

background-image: -moz-linear-gradient(top, #261c61, #3498db);

background-image: -o-linear-gradient(top, #261c61, #3498db);

background-image: linear-gradient(to bottom, #261c61, #3498db);

text-decoration: none;

cursor: pointer;

}

.btndiabled {

background: #bdb3bd;

background-image: -webkit-linear-gradient(top, #bdb3bd, #757575);

background-image: -moz-linear-gradient(top, #bdb3bd, #757575);

background-image: -o-linear-gradient(top, #bdb3bd, #757575);

background-image: linear-gradient(to bottom, #bdb3bd, #757575);

-webkit-border-radius: 0;

-moz-border-radius: 0;

border-radius: 6px;

font-family: Arial;

color: #ffffff;

font-size: 19px;

padding: 3px 20px;

text-decoration: none;

cursor: none;

}

</style>

</div>

</form>

</body>

</html>

Default2.aspx.cs (page 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.Configuration;

using System.Data;

using System.Data.SqlClient;

public partial class Default2 : System.Web.UI.Page

{

DataTable dt = new DataTable();

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

{

if (!IsPostBack)

{

BindGrid();

}

}

public void BindGrid()

{

SqlDataAdapter adp = new SqlDataAdapter("select \* from tblQuestions", ConfigurationManager.ConnectionStrings["con"].ToString());

adp.Fill(dt);

grdquestions.DataSource = dt;

grdquestions.DataBind();

}

protected void grdquestions\_RowDataBound(object sender, GridViewRowEventArgs e)

{

if (e.Row.RowType == DataControlRowType.DataRow)

{

RadioButtonList rdlstOptions = (RadioButtonList)e.Row.FindControl("rdlstOptions");

HiddenField hdnquestionId = (HiddenField)e.Row.FindControl("hdnquestionId");

if (rdlstOptions != null && hdnquestionId != null)

{

DataRow[] result = dt.Select("questionid=" + (Convert.ToInt32(hdnquestionId.Value)));

DataView view = new DataView();

view.Table = dt;

view.RowFilter = "questionid=" + (Convert.ToInt32(hdnquestionId.Value));

if (view.Table.Rows.Count > 0)

{

DataTable dt1 = new DataTable();

dt1 = view.ToTable();

}

}

}

}

}