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Project Name – Library Management System

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Topic Introduction:

A Library Management System is a software built to handle the primary housekeeping functions of a library. Librariesrely on library management systems to manage asset collections as well as relationships with their members. Library management systems help libraries keep track of the books and their checkouts, as well as members' subscriptions and profiles.

Library management systems also involve maintaining the database for entering new books and recording books that have been borrowed with their respective Publisher.

Introduction to ASP.Net

- ASP.NET is a web development platform, which provides a programming model, a comprehensive software infrastructure and various services required to build up robust web applications for PC, as well as mobile devices.
- ASP.NET is a part of Microsoft .Net platform. ASP.NET applications are compiled codes, written using the extensible and reusable components or objects present in .Net framework. These codes can use the entire hierarchy of classes in .Net framework.

The ASP.NET application codes can be written in any of the following
languages:
□ C #
☐ Visual Basic.Net
□ Jscript
□ J#
•

ASP.NET is used to produce interactive, data-driven web applications over the internet. It consists of a large number of controls such as text boxes, buttons, and labels for assembling, configuring, and manipulating code to create HTML pages.

Why do we use C#?

Programming in C#: Since the C# is a lot similar to other widely used languages syntactically, it is easier to code and learn in C#. Programs can be written in C# in any of the widely used text editors like Notepad++, gedit, etc. or on any of the compilers. After writing the program save the file with the extension .cs

Feature

Easy to start: C# is a high-level language so it is closer to other popular programming languages like C, C++, and Java

Widely used for developing Desktop and Web Application: It is one of the most popular languages that is used in professional desktop. If anyone wants to create Microsoft apps, C# is their first choice.

Community : C# has a large community so the developments are done to make it exist in the system and not become extinct.

Game Development: C# integrates with Microsoft and thus has a large target audience. The C# features such as Automatic Garbage Collection, interfaces, object-oriented, etc. make C# a popular game developing language

What is ASPX used for?

Default.aspx - The default webpage loaded when a client browser requests a Web server directory on a Microsoft IIS-based server that uses ASP.NET. For example, when a client requests http://www.sampledomain.com/, the server loads http://www.sampledomain.com/Default.aspx, unless it is configured to load a different file.

Using Default.aspx in our project we Designing our web page

What is Default. aspx. cs used for?

The **Default**. **aspx**. **cs** page allow programmer to write c# programming code to develop website application.

What is the purpose of master page?

- Master pages allow you to create a consistent look and behavior for all the pages (or group of pages) in your web application.
- A master page provides a template for other pages, with shared layout and functionality. The master page defines placeholders for the content, which can be overridden by content pages. The output result is a combination of the master page and the content page.
- The content pages contain the content you want to display.
- When users request the content page, ASP.NET merges the pages to produce output that combines the layout of the master page with the content of the content page.
- The master page above is a normal HTML page designed as a template for other pages.
- The @ Master directive defines it as a master page.
- The master page contains a placeholder tag <asp:ContentPlaceHolder> for individual content.
- The **id="CPH1"** attribute identifies the placeholder, allowing many placeholders in the same master page.
- This master page was saved with the name "master1.master

CODE:

MasterPage.master:

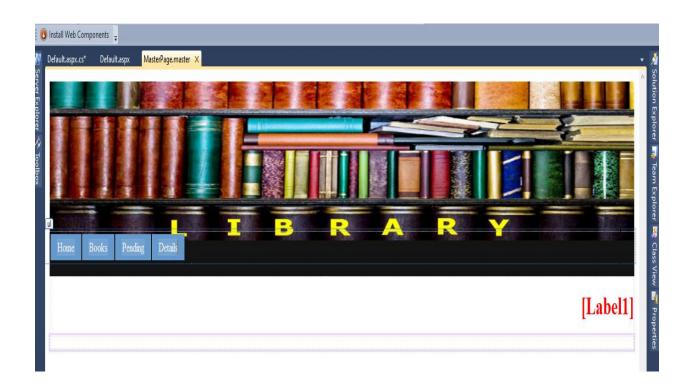
```
<%@ Master Language="C#" AutoEventWireup="true"</pre>
CodeFile="MasterPage.master.cs" Inherits="MasterPage" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0</pre>
Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-
transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
<title></title>
<asp:ContentPlaceHolder id="head" runat="server">
</asp:ContentPlaceHolder>
<style type="text/css">
#menu_hr
background:#141414;
width:100%;
margin-top:-15px;
}
#menu hr ul
width:auto;
padding:10px 0px 8px 10px;
margin-left:-8px;
#menu hr ul li
{
list-style-type:none;
display:inline;
padding-right:2px;
```

```
#menu hr ul li a
{
background:#6699cc;
padding:7px 15px 7px 15px;
text-decoration:none;
color:#ffffff;
}
#menu_hr ul li a:hover
background: #ea6153;
padding:7px 15px 7px 15px;
text-decoration:none;
color:#ffffff;
}
</style>
</head>
<body>
<form id="form1" runat="server">
<div>
<div id="div img">
<img src="C:\Users\Dell\Documents\Visual Studio</pre>
2010\Projects\LibraryProject2\library1.jpg" height="200px"
width="100%" />
<div id="menu hr">
<l
<a href="Default.aspx">Home</a>
<a href="BookAssign.aspx">Books</a>
<a href="Pending.aspx">Pending</a></or>
<a href="#">Details</a>
</div>
<h1 style="color:Red; text-align:right;"><asp:Label</pre>
ID="Label1" align="right"
```

```
runat="server"></asp:Label></h1>
</div>
<asp:ContentPlaceHolder id="ContentPlaceHolder1"
runat="server">

</asp:ContentPlaceHolder>
</div>
</div>
</form>
</body>
</html>
```

OUTPUT:



Default.aspx page

```
<%@ Page Title="" Language="C#"</pre>
MasterPageFile="~/MasterPage.master" AutoEventWireup="true"
CodeFile="Default.aspx.cs" Inherits="_Default" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head"</pre>
Runat="Server">
<style type="text/css">
.tb_book
border-collapse:collapse;
.tb_book_AED, .tb_book_th
border:1px solid #6699cc;
.tdbi 1
width:200px;
padding:3px 25px 3px 3px;
background:#fafafa;
text-align:right;
border-top:1px solid #dddddd;
border-right:1px solid #dddddd;
border-bottom:1px solid #dddddd;
}
.tdbi 2
width:350px;
padding:3px;
background:#fafafa;
border-top:1px solid #dddddd;
border-bottom:1px solid #dddddd;
}
.txtbox
```

```
width:300px;
padding:3px;
}
.btn
background:#6699cc;
border:1px solid #6699cc;
padding:5px 10px 5px 10px;
color:#fffff;
}
.btn:hover
background: #ea6153;
border:1px solid #ea6153;
padding:5px 10px 5px 10px;
color:#fffff;
}
</style>
<script src="Javascript/jquery-1.11.2.js"</pre>
type="text/javascript"></script>
<script src="Javascript/bookvalidation.js"</pre>
type="text/javascript"></script>
</asp:Content>
<asp:Content ID="Content2"
ContentPlaceHolderID="ContentPlaceHolder1" Runat="Server">
<div style="background:#ffffff; margin-top:-15px;</pre>
height:500px; padding:10px 25px 50px 25px;">
<div style="background:#dddddd; padding:5px 10px 5px 10px;</pre>
width:105%; margin-left:-30px;" align="center">
<asp:RadioButtonList ID="rbl book AEUD" runat="server"</pre>
RepeatDirection="Horizontal" Font-Bold="true"
ForeColor="Blue" >
<asp:ListItem Text="ADD" Value="1"</pre>
Selected="True"></asp:ListItem>
<asp:ListItem Text="EDIT" Value="2"></asp:ListItem>
<asp:ListItem Text="DELETE" Value="3"></asp:ListItem>
```

```
</asp:RadioButtonList>
  
</div>
<div style="padding:10px;" align="center">
<td id="table Add" class="tb book AED"
style="display:block;" runat="server">
<caption><h1>Add Book Inventory</h1></caption>
Book ID :
<asp:TextBox ID="txt bookid"
CssClass="txtbox" runat="server"></asp:TextBox>
Book Name :
<asp:TextBox ID="txt bookname"</pre>
CssClass="txtbox" runat="server"></asp:TextBox>
Book Publisher Name :
<asp:TextBox ID="txt bookpubname"</pre>
CssClass="txtbox" runat="server"></asp:TextBox>
>
Book Publishered Year :
<asp:TextBox ID="txt bookpubyear"</pre>
CssClass="txtbox" runat="server"></asp:TextBox>
>
Book Price :
<asp:TextBox ID="txt bookprice"</pre>
CssClass="txtbox" runat="server"></asp:TextBox>
Book Quantity :
<asp:TextBox ID="txt_bookqty"
CssClass="txtbox" runat="server"></asp:TextBox>
```

```
<td id="table Edit" class="tb book AED"
style="display:none;" runat="server">
<caption><h1>Edit Book Inventory</h1></caption>
Book ID :
<asp:TextBox ID="txt edit bookid"</pre>
CssClass="txtbox" Width="235px"
runat="server"></asp:TextBox>
<asp:Button ID="btn_check" runat="server" CssClass="btn"</pre>
Text="Check"
onclick="btn check Click" />
Book Name :
<asp:TextBox ID="txt edit bookname"</pre>
CssClass="txtbox" ReadOnly="true" BackColor="#dddddd"
runat="server"></asp:TextBox>
>
Book Publisher Name :
<asp:TextBox ID="txt edit bookpubname"</pre>
CssClass="txtbox" ReadOnly="true" BackColor="#dddddd"
runat="server"></asp:TextBox>
Book Publisher Year :
<asp:TextBox ID="txt edit bookpubdate"</pre>
CssClass="txtbox" ReadOnly="true" BackColor="#dddddd"
runat="server"></asp:TextBox>
Book Price :
<asp:TextBox ID="txt edit bookprice"</pre>
CssClass="txtbox" ReadOnly="true" BackColor="#dddddd"
runat="server"></asp:TextBox>
Book Quantity :
```

```
<asp:TextBox ID="txt edit bookqty"</pre>
CssClass="txtbox" ReadOnly="true" BackColor="#dddddd"
runat="server"></asp:TextBox>
<td id="table Delete" class="tb book AED"
style="display:none;" runat="server">
<caption><h1>Delete Book Inventory</h1></caption>
Book ID :
<asp:TextBox ID="txt delete bookid"
CssClass="txtbox" runat="server"></asp:TextBox>
</div>
<asp:Label ID="lblresult" runat="server"></asp:Label>
<br />
<asp:Label ID="lbl book result" runat="server"></asp:Label>
<!-- Add Book ADD EDIT DELETE -->
<div id="div add" align="center" style="padding-top:25px;</pre>
display:block;" runat="server">
<asp:Button ID="btn_Add" runat="server" CssClass="btn"</pre>
Text="ADD"
onclick="btn Add Click" />
<asp:Button ID="btn_Add_Reset" runat="server" CssClass="btn"</pre>
Text="RESET"
onclick="btn Add Reset Click" />
<asp:Button ID="btn Add Cancel" runat="server"</pre>
CssClass="btn" Text="CANCEL"
onclick="btn Add Cancel Click" />
</div>
<!-- Edit Book ADD EDIT DELETE -->
<div id="div_edit" align="center" style="padding-top:25px;</pre>
display:none;" runat="server">
<asp:Button ID="btn_Update" runat="server" CssClass="btn"</pre>
Text="UPDATE"
```

```
onclick="btn Update Click" />
<asp:Button ID="btn Update Reset" runat="server"</pre>
CssClass="btn" Text="RESET"
onclick="btn Update Reset Click" />
<asp:Button ID="btn Update Cancel" runat="server"</pre>
CssClass="btn" Text="CANCEL"
onclick="btn Update Cancel Click" />
</div>
<!-- Delete Book ADD EDIT DELETE -->
<div id="div_delete" align="center" style="padding-top:25px;</pre>
display:none; " runat="server">
<asp:Button ID="btn_Delete" runat="server" CssClass="btn"</pre>
Text="DELETE"
onclick="btn Delete Click" />
<asp:Button ID="btn Delete Reset" runat="server"</pre>
CssClass="btn" Text="RESET"
onclick="btn Delete Reset Click" />
<asp:Button ID="btn_Delete_Cancel" runat="server"</pre>
CssClass="btn" Text="CANCEL"
onclick="btn Delete Cancel Click" />
</div>
</div>
</asp:Content>
```

OUTPUT

Default.aspx.cs* Default.aspx × MasterPage.master					
Default.aspx.cs* Default.aspx × MasterPage.master Add Book Inventory Book ID:	Edit	t Book Inventory			
Book Name: Book Publisher Name: Book Publishered Year: Book Price : Book	Book Name: Book Publisher Name: Book Publisher Year: Book Price:		Delete Book Inventory Book ID:		
Quantity: [lblresult] [lbl_book_result]	Book Quantity	RESET CANCEL			

Default.aspx.cs page

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data.SqlClient;
using System.Data;
using System.Configuration;
public partial class Default : System.Web.UI.Page
SqlConnection con = new SqlConnection("Data Source=DESKTOP-
HM3E1VF; Initial Catalog=Library1; Integrated Security=True");
SqlCommand cmd;
SqlDataAdapter da;
DataSet ds;
string qr;
protected void Page Load(object sender, EventArgs e)
{}
protected void btn Add Click(object sender, EventArgs e)
{
try
{
qr = "Insert into BookRecord(bookid, bookname, bookpubname,
bookpubyear, bookprice, bookquantity, recorddate) values('"
+ txt_bookid.Text.Trim() + "','" + txt_bookname.Text.Trim()
+ "','" + txt bookpubname.Text.Trim() + "','" +
txt bookpubyear.Text.Trim() + "','" +
txt_bookprice.Text.Trim() + "','" + txt_bookqty.Text.Trim()
+ "','" + DateTime.Today.Date.ToShortDateString() + "')";
cmd = new SqlCommand(qr, con);
con.Open(); //sqlconnection open before save or delete
update or serach
int i = cmd.ExecuteNonQuery();
```

```
if (i > 0)
lblresult.ForeColor = System.Drawing.Color.Green;
lblresult.Text = "record Inserted Successfully.....";
clear();
}
else
lblresult.Text = "record NOT Inserted .....";
lblresult.ForeColor = System.Drawing.Color.Red;
con.Close();
catch
{
con.Close();
Response.Write("alert('Exception occur')");
}
protected void btn Add Reset Click(object sender, EventArgs
e)
clear();
private void clear()
txt bookid.Text = "";
txt bookname.Text = "";
txt bookpubname.Text = "";
txt bookpubyear.Text = "";
txt_bookprice.Text = "";
txt_bookqty.Text = "";
}
private void ResetEditTextbox()
txt_edit_bookid.Text = "";
txt_edit_bookid.Style.Add("width", "235px");
```

```
txt_edit_bookid.Style.Add("background", "#ffffff");
txt edit bookid.ReadOnly = false;
btn check.Visible = true;
txt_edit_bookname.Text = "";
txt edit bookpubname.Text = "";
txt edit bookpubdate.Text = "";
txt_edit_bookprice.Text = "";
txt edit bookqty.Text = "";
private void ResetDeleteTextbox()
txt_delete_bookid.Text = "";
private void DisableReadOnly_EditTextBoxColor()
{
txt edit bookname.ReadOnly = true;
txt_edit_bookname.Style.Add("background", "#dddddd");
txt edit bookpubname.ReadOnly = true;
txt edit bookpubname.Style.Add("background", "#dddddd");
txt edit bookpubdate.ReadOnly = true;
txt edit bookpubdate.Style.Add("background", "#dddddd");
txt edit bookprice.ReadOnly = true;
txt edit bookprice.Style.Add("background", "#dddddd");
txt edit bookqty.ReadOnly = true;
txt_edit_bookqty.Style.Add("background", "#dddddd");
}
protected void btn_check_Click(object sender, EventArgs e)
try
{
gr = "Select * from BookRecord Where bookid='" +
txt edit bookid.Text.Trim() + "'";
da = new SqlDataAdapter(qr, con);
ds = new DataSet();
da.Fill(ds);
if (ds.Tables[0].Rows.Count > 0)
txt edit bookid.Text =
ds.Tables[0].Rows[0]["bookid"].ToString();
```

```
txt edit bookid.Text =
ds.Tables[0].Rows[0]["bookid"].ToString();
txt edit bookname.Text =
ds.Tables[0].Rows[0]["bookname"].ToString();
txt edit bookpubname.Text =
ds.Tables[0].Rows[0]["bookpubname"].ToString();
txt edit bookpubdate.Text =
ds.Tables[0].Rows[0]["bookpubyear"].ToString();
txt edit bookprice.Text =
ds.Tables[0].Rows[0]["bookprice"].ToString();
txt edit bookqty.Text =
ds.Tables[0].Rows[0]["bookquantity"].ToString();
btn check.Visible = false;
EnableReadOnly_TextBoxColor();
div_add.Style.Add("display", "none");
table_Add.Style.Add("display", "none");
div_edit.Style.Add("display", "block");
table_Edit.Style.Add("display", "block");
div delete.Style.Add("display", "none");
table Delete.Style.Add("display", "none");
txt edit bookid.Style.Add("width", "300px");
txt edit bookid.Style.Add("background", "#dddddd");
txt_edit_bookid.ReadOnly = true;
}
}
catch
{
con.Close();
}
private void EnableReadOnly_TextBoxColor()
txt edit bookid.ReadOnly = false;
txt_edit_bookid.Style.Add("background", "#ffffff");
txt edit bookname.ReadOnly = false;
txt_edit_bookname.Style.Add("background", "#ffffff");
txt edit bookpubname.ReadOnly = false;
```

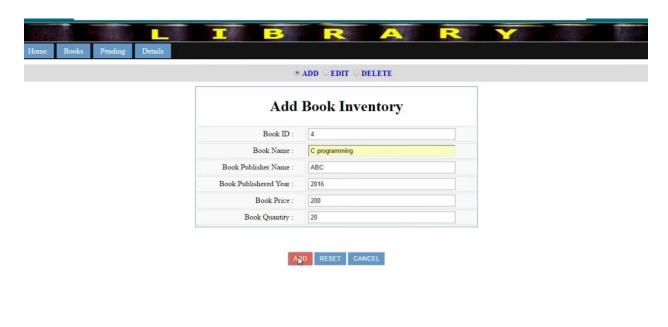
```
txt edit bookpubname.Style.Add("background", "#ffffff");
txt edit bookpubdate.ReadOnly = false;
txt edit bookpubdate.Style.Add("background", "#ffffff");
txt edit bookprice.ReadOnly = false;
txt edit bookprice.Style.Add("background", "#ffffff");
txt edit bookqty.ReadOnly = false;
txt edit bookqty.Style.Add("background", "#ffffff");
}
protected void btn Add Cancel Click(object sender, EventArgs
e)
{
clear();
}
protected void btn Update Click(object sender, EventArgs e)
try
{
gr = "Update BookRecord set bookname='" +
txt_edit_bookname.Text.Trim() + "', bookpubname='" +
txt_edit_bookpubname.Text.Trim() + "', bookpubyear='" +
txt_edit_bookpubdate.Text.Trim() + "', bookprice='" +
txt edit bookprice.Text.Trim() + "', bookquantity='" +
txt edit bookqty.Text.Trim() + "' where bookid='" +
txt_edit_bookid.Text.Trim() + "'";
cmd = new SqlCommand(qr, con);
con.Open();
cmd.ExecuteNonQuery();
con.Close();
lblresult.Text = "Record Updated Successfully...";
}
catch
con.Close();
}
}
protected void btn_Delete_Click(object sender, EventArgs e)
{
try
{
qr = "Delete BookRecord where bookid='" +
txt delete bookid.Text.Trim() + "'";
```

```
cmd = new SqlCommand(qr, con);
con.Open();
cmd.ExecuteNonQuery();
con.Close();
div_add.Style.Add("display", "none");
table_Add.Style.Add("display", "none");
div_edit.Style.Add("display", "none");
table_Edit.Style.Add("display", "none");
div_delete.Style.Add("display", "block");
table Delete.Style.Add("display", "block");
lblresult.Text = "Record Deleted Successfully...";
}
catch
con.Close();
protected void btn Delete Reset Click(object sender,
EventArgs e)
{
ResetDeleteTextbox();
protected void btn Delete Cancel Click(object sender,
EventArgs e)
{
ResetDeleteTextbox();
protected void btn Update Reset Click(object sender,
EventArgs e)
{
ResetEditTextbox();
DisableReadOnly_EditTextBoxColor();
}
protected void btn_Update_Cancel_Click(object sender,
EventArgs e)
ResetEditTextbox();
DisableReadOnly_EditTextBoxColor();
}}
```

OUTPUT

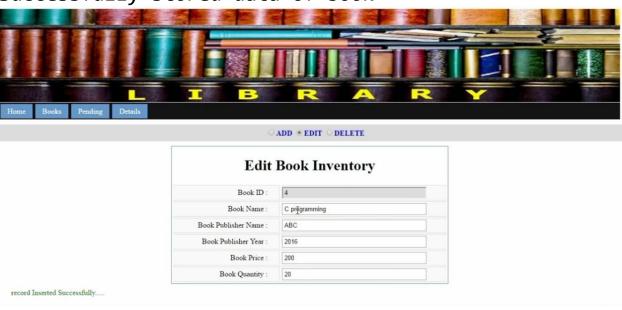
1st page:

Adding imformation of book in Add Book Inventory

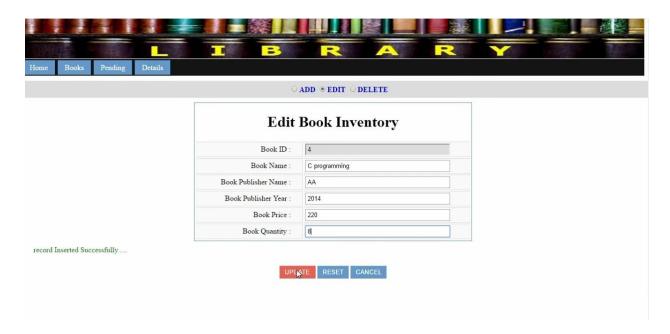


Page 2nd:

Successfully stored data of book



If User wants to update data, they can easily update



Page :3rd

If User wants to Delete data they can easily update

