



Dharmsinh Desai University

Department of MCA

Semester - III

## **ASP.NET Programming With C#**

Termwork Report on

### **Employee Management System**

Submitted by

**Roll No**

**MCA005**

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## **Title:** Employee Management System

### **Description:**

The Employee Management System is a comprehensive platform designed to streamline the management of employee information. It allows for efficient handling of CRUD operations—Create, Read, Update, and Delete—ensuring that employee data is always up-to-date and easily accessible.

Admin can add new employees, view detailed employee profiles, search for specific employees, update existing employee information, and delete records as needed. This system is essential for maintaining an organized and efficient workplace, providing a user-friendly interface for managing all aspects of employee data.

### **Codes:**

#### **Login.aspx:**

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="Default.aspx.cs"
Inherits="EmployeeManagementSystem.Default" %>
```

```
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title>Admin Login</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-color: #f4f4f4;
      margin: 0;
      padding: 0;
    }
    .login-container {
      width: 300px;
      margin: 100px auto;
      padding: 20px;
      background-color: white;
      border-radius: 5px;
```

```
        box-shadow: 0 0 10px rgba(0,0,0,0.1);
    }
    .login-container h2 {
        text-align: center;
    }
    .form-group {
        margin-bottom: 15px;
    }
    .form-group label {
        display: block;
        margin-bottom: 5px;
    }
    .form-group input {
        width: 100%;
        height: 20px;
        padding: 10px,10px;
        border: 1px solid #ccc;
        border-radius: 3px;
    }
    .btn {
        width: 100%;
        padding: 10px;
        background-color: #007BFF;
        color: white;
        border: none;
        border-radius: 3px;
        cursor: pointer;
    }
    .btn:hover {
        background-color: #0056b3;
    }
    .logout{
        text-align: center;
    }
</style>
</head>
<body>
```

```

<form id="form1" runat="server">
  <div class="login-container">
    <h2>Admin Login</h2>
    <div class="form-group">
      <label for="txtUsername">Username:</label>
      <asp:TextBox ID="txtUsername" runat="server" />
    </div>
    <div class="form-group">
      <label for="txtPassword">Password:</label>
      <asp:TextBox ID="txtPassword" runat="server"
TextMode="Password" />
    </div>
    <asp:Button ID="btnLogin" runat="server" Text="Login" CssClass="btn"
OnClick="btnLogin_Click" />
    <asp:Label ID="lblMessage" runat="server" ForeColor="Red" />
    <br />
    <div class="logout">
      <p><a href="Logout.aspx">Logout</a></p>
    </div>
  </div>
</form>
</body>
</html>

```

### **Login.aspx.cs:**

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace EmployeeManagementSystem
{
    public partial class Default : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)

```

```

{

}

protected void btnLogin_Click(object sender, EventArgs e)
{
    string username = txtUsername.Text;
    string password = txtPassword.Text;

    if (username == "admin" && password == "admin")
    {
        lblMessage.Text = "Login successful!";

        Response.Redirect("Home.aspx");
    }
    else
    {
        lblMessage.Text = "Invalid username or password.";
    }
}
}
}

```

### **Home.aspx:**

```

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

```

```

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Employee Management System</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            background-color: #f4f4f4;

```

```
    margin: 0;
    padding: 0;
}
.container {
    width: 80%;
    margin: 50px auto;
    padding: 20px;
    background-color: white;
    border-radius: 5px;
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}
header {
    text-align: center;
    margin-bottom: 20px;
}
header h1 {
    color: #007BFF;
}
nav {
    background-color: #007BFF;
    padding: 10px;
    border-radius: 5px;
    margin-bottom: 20px;
}
nav ul {
    list-style-type: none;
    padding: 0;
    text-align: center;
}
nav ul li {
    display: inline;
    margin: 0 15px;
}
nav ul li a {
    text-decoration: none;
    color: white;
    font-weight: bold;
```

```

padding: 10px 5px;
border-radius: 3px;
transition: background-color 0.3s;
}
nav ul li a:hover {
    background-color: #0056b3;
}
main {
    text-align: center;
    margin-bottom: 20px;
}
main h2 {
    color: #333;
}
footer {
    text-align: center;
    font-size: 0.9em;
    color: #666;
}
</style>
</head>
<body>
<form id="form1" runat="server">
    <div class="container">
        <header>
            <h1>Employee Management System</h1>
            <nav>
                <ul>
                    <li><a href="Home.aspx">Home</a></li>
                    <li><a href="AddEmployee.aspx">Add Employee</a></li>
                    <li><a href="DisplayEmployee.aspx">View Employees</a></li>
                    <li><a href="SearchEmployee.aspx">Search Employee</a></li>
                    <li><a href="UpdateEmployee.aspx">Update Employee</a></li>
                    <li><a href="DeleteEmployee.aspx">Delete Employee</a></li>
                </ul>
            </nav>
        </header>

```

```

    <main>
        <h2>Welcome to the Employee Management System</h2>
        <p>The Employee Management System is a comprehensive platform
designed to streamline the management of employee information. It allows for
efficient handling of CRUD operations—Create, Read, Update, and Delete—
ensuring that employee data is always up-to-date and easily accessible. Admin
can add new employees, view detailed employee profiles, search for specific
employees, update existing employee information, and delete records as
needed. This system is essential for maintaining an organized and efficient
workplace, providing a user-friendly interface for managing all aspects of
employee data.</p>
    </main>
    <footer>
        <p>&copy; 2024 Employee Management System</p>
        <p><a href="Logout.aspx">Logout</a></p>
    </footer>

</div>
</form>
</body>
</html>

```

### Home.aspx.cs:

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace EmployeeManagementSystem
{
    public partial class Home : Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

```



```
}  
}  
}
```

### **AddEmployee.aspx:**

```
<%@ Page Language="C#" AutoEventWireup="true"  
CodeBehind="AddEmployee.aspx.cs"  
Inherits="EmployeeManagementSystem.AddEmployee" %>
```

```
<!DOCTYPE html>  
<html xmlns="http://www.w3.org/1999/xhtml">  
<head runat="server">  
    <title>Add Employee</title>  
    <link rel="stylesheet" type="text/css" href="Styles/styles.css" />  
</head>  
<body>  
    <form id="form1" runat="server">  
        <div class="container">  
            <header>  
                <h1>Add New Employee</h1>  
                <nav>  
                    <ul>  
                        <li><a href="Home.aspx">Home</a></li>  
                        <li><a href="AddEmployee.aspx">Add Employee</a></li>  
                        <li><a href="DisplayEmployee.aspx">View Employees</a></li>  
                        <li><a href="SearchEmployee.aspx">Search Employee</a></li>  
                        <li><a href="UpdateEmployee.aspx">Update Employee</a></li>  
                        <li><a href="DeleteEmployee.aspx">Delete Employee</a></li>  
                    </ul>  
                </nav>  
            </header>  
            <main>  
                <h2>Enter Employee Details</h2>  
                <div>  
                    <label>First Name:</label>  
                    <asp:TextBox ID="txtFirstName" runat="server"></asp:TextBox>
```

```
</div>
<div>
    <label>Last Name:</label>
    <asp:TextBox ID="txtLastName" runat="server"></asp:TextBox>
</div>
<div>
    <label>Email:</label>
    <asp:TextBox ID="txtEmail" runat="server"></asp:TextBox>
</div>
<div>
    <label>Mobile No:</label>
    <asp:TextBox ID="txtMobile" runat="server"></asp:TextBox>
</div>
<div>
    <label>Department:</label>
    <asp:TextBox ID="txtDepartment" runat="server"></asp:TextBox>
</div>
<div>
    <label>Salary:</label>
    <asp:TextBox ID="txtSalary" runat="server"></asp:TextBox>
</div>
<div>
    <label>Designation:</label>
    <asp:TextBox ID="txtdes" runat="server"></asp:TextBox>
</div>
<div>
    <asp:Button ID="btnSubmit" runat="server" Text="Submit"
OnClick="btnSubmit_Click" />
    <asp:Button ID="btnCancel" runat="server" Text="Cancel"
OnClick="btnCancel_Click" />
</div>
</main>
<footer>
    <p>&copy; 2024 Employee Management System</p>
    <p><a href="Logout.aspx">Logout</a></p>
</footer>
</div>
```

```
</form>
</body>
</html>
```

### **addEmployee.aspx.cs:**

```
using System;
using System.Collections.Generic;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace EmployeeManagementSystem
{
    public partial class AddEmployee : Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void btnSubmit_Click(object sender, EventArgs e)
        {
            string connectionString =
System.Configuration.ConfigurationManager.ConnectionStrings["EmployeeDB
Connection"].ConnectionString;

            using (SqlConnection con = new SqlConnection(connectionString))
            {
                string query = "INSERT INTO Employee (FirstName, LastName, Email,
MobileNo, Department, Salary,Designation) VALUES (@FirstName,
@LastName, @Email, @MobileNo, @Department, @Salary,@Designation)";

                SqlCommand cmd = new SqlCommand(query, con);
                cmd.Parameters.AddWithValue("@FirstName", txtFirstName.Text);
                cmd.Parameters.AddWithValue("@LastName", txtLastName.Text);
```

```

        cmd.Parameters.AddWithValue("@Email", txtEmail.Text);
        cmd.Parameters.AddWithValue("@MobileNo", txtMobile.Text);
        cmd.Parameters.AddWithValue("@Department",
txtDepartment.Text);
        cmd.Parameters.AddWithValue("@Salary",
decimal.Parse(txtSalary.Text));
        cmd.Parameters.AddWithValue("@Designation", txtDes.Text);
        con.Open();
        cmd.ExecuteNonQuery();
    }

    Response.Redirect("DisplayEmployee.aspx");
}

protected void btnCancel_Click(object sender, EventArgs e)
{
    Response.Redirect("Home.aspx");
}
}
}

```

### **searchEmployee.aspx:**

```

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

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Search Employee</title>
    <link rel="stylesheet" type="text/css" href="Styles/styles.css" />
</head>
<body>
    <form id="form1" runat="server">
        <div class="container">
            <header>
                <h1>Search Employee</h1>

```

```

<nav>
  <ul>
    <li><a href="Home.aspx">Home</a></li>
    <li><a href="AddEmployee.aspx">Add Employee</a></li>
    <li><a href="DisplayEmployee.aspx">View Employees</a></li>
    <li><a href="SearchEmployee.aspx">Search Employee</a></li>
    <li><a href="UpdateEmployee.aspx">Update Employee</a></li>
    <li><a href="DeleteEmployee.aspx">Delete Employee</a></li>
  </ul>
</nav>
</header>
<main>
  <h2>Search for an Employee</h2>
  <div>
    <label>Search by ID or Name:</label>
    <asp:TextBox ID="txtSearch" runat="server"></asp:TextBox>
    <asp:Button ID="btnSearch" runat="server" Text="Search"
      OnClick="btnSearch_Click" />
  </div>
  <div>
    <asp:GridView ID="GridView1" runat="server"
      AutoGenerateColumns="False" CssClass="grid-view">
      <Columns>
        <asp:BoundField DataField="EmployeeId" HeaderText="ID" />
        <asp:BoundField DataField="FirstName" HeaderText="First
          Name" />
        <asp:BoundField DataField="LastName" HeaderText="Last
          Name" />
        <asp:TemplateField HeaderText="Actions">
          <ItemTemplate>
            <asp:LinkButton ID="btnEdit" runat="server" Text="Edit"
              CommandArgument='<%#
Eval("EmployeeId") %>' OnCommand="btnEdit_Command" />
            <asp:LinkButton ID="btnDelete" runat="server"
              Text="Delete" CommandArgument='<%#
Eval("EmployeeId") %>' OnCommand="btnDelete_Command" />
          </ItemTemplate>
        </asp:TemplateField>
      </Columns>
    </asp:GridView>
  </div>

```

```

        </asp:TemplateField>
    </Columns>
</asp:GridView>
</div>
</main>
<footer>
    <p>&copy; 2024 Employee Management System</p>
    <p><a href="Logout.aspx">Logout</a></p>
</footer>
</div>
</form>
</body>
</html>

```

#### **searchEmployee.aspx.cs:**

```

using System;
using System.Collections.Generic;
using System.Data;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace EmployeeManagementSystem
{
    public partial class SearchEmployee : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void btnSearch_Click(object sender, EventArgs e)
        {

```

```
string connectionString =  
    System.Configuration.ConfigurationManager.ConnectionStrings["EmployeeDBConnection"].ConnectionString;
```

```
using (SqlConnection con = new SqlConnection(connectionString))  
{  
    string searchTerm = txtSearch.Text.Trim();  
    string query;  
  
    if (int.TryParse(searchTerm, out int employeeId))  
    {  
        query = "SELECT * FROM Employee WHERE EmployeeId =  
@Search";  
    }  
    else  
    {  
        query = "SELECT * FROM Employee WHERE FirstName LIKE '%' +  
@Search + '%' OR LastName LIKE '%' + @Search +      '%";  
    }  
  
    SqlCommand cmd = new SqlCommand(query, con);  
    cmd.Parameters.AddWithValue("@Search", searchTerm);  
    SqlDataAdapter da = new SqlDataAdapter(cmd);  
    DataTable dt = new DataTable();  
    da.Fill(dt);  
    GridView1.DataSource = dt;  
    GridView1.DataBind();  
}  
}
```

```
protected void btnEdit_Command(object sender, CommandEventArgs e)  
{  
  
    Response.Redirect($"UpdateEmployee.aspx?id={e.CommandArgument}");  
}
```

```

        protected void btnDelete_Command(object sender, CommandEventArgs
e)
        {

Response.Redirect($"DeleteEmployee.aspx?id={e.CommandArgument}");
        }
    }
}

```

### **displayEmployee.aspx:**

```

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

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Employee List</title>
    <link rel="stylesheet" type="text/css" href="Styles/styles.css" />
</head>
<body>
    <form id="form1" runat="server">
        <div class="container">
            <header>
                <h1>Employee List</h1>
                <nav>
                    <ul>
                        <li><a href="Home.aspx">Home</a></li>
                        <li><a href="AddEmployee.aspx">Add Employee</a></li>
                        <li><a href="DisplayEmployee.aspx">View Employees</a></li>
                        <li><a href="SearchEmployee.aspx">Search Employee</a></li>
                        <li><a href="UpdateEmployee.aspx">Update Employee</a></li>
                        <li><a href="DeleteEmployee.aspx">Delete Employee</a></li>
                    </ul>
                </nav>
            </header>
            <main>

```



```

        <h2>List of Employees</h2>
        <asp:GridView ID="GridView1" runat="server"
AutoGenerateColumns="False" OnRowCommand="GridView1_RowCommand"
CssClass="grid-view">
            <Columns>
                <asp:BoundField DataField="EmployeeId" HeaderText="ID"
ReadOnly="True" />
                <asp:BoundField DataField="FirstName" HeaderText="First
Name" ReadOnly="True" />
                <asp:BoundField DataField="LastName" HeaderText="Last Name"
ReadOnly="True" />
                <asp:BoundField DataField="Email" HeaderText="Email"
ReadOnly="True" />
                <asp:BoundField DataField="MobileNo" HeaderText="Mobile No"
ReadOnly="True" />
                <asp:BoundField DataField="Department"
HeaderText="Department" ReadOnly="True" />
                <asp:BoundField DataField="Salary" HeaderText="Salary"
ReadOnly="True" />

                <asp:TemplateField HeaderText="Actions">
                    <ItemTemplate>
                        <asp:Button ID="btnEdit" runat="server" Text="Edit"
CommandName="Edit" CommandArgument='<%#
Eval("EmployeeId") %>' />
                        <asp:Button ID="btnDelete" runat="server" Text="Delete"
CommandName="Delete"
CommandArgument='<%# Eval("EmployeeId") %>' />
                    </ItemTemplate>
                </asp:TemplateField>
            </Columns>
        </asp:GridView>
    </main>
    <footer>
        <p>&copy; 2024 Employee Management System</p>
        <p><a href="Logout.aspx">Logout</a></p>
    </footer>

```

```
        </div>
    </form>
</body>
</html>
```

### **DisplayEmployee.aspx.cs:**

```
using System;
using System.Data;
using System.Data.SqlClient;
using System.Web.UI.WebControls;

namespace EmployeeManagementSystem
{
    public partial class DisplayEmployee : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            if (!IsPostBack)
            {
                BindGrid();
            }
        }

        private void BindGrid()
        {
            string connectionString =
System.Configuration.ConfigurationManager.ConnectionStrings["EmployeeDB
Connection"].ConnectionString;
            using (SqlConnection con = new SqlConnection(connectionString))
            {
                string query = "SELECT * FROM Employee";
                SqlDataAdapter da = new SqlDataAdapter(query, con);
                DataTable dt = new DataTable();
                da.Fill(dt);
                GridView1.DataSource = dt;
                GridView1.DataBind();
            }
        }
    }
}
```

```

    }

    protected void GridView1_RowCommand(object sender,
GridViewCommandEventArgs e)
    {
        if (e.CommandName == "Edit")
        {
            int employeeId = Convert.ToInt32(e.CommandArgument);
            Response.Redirect($"UpdateEmployee.aspx?id={employeeId}");
        }
        else if (e.CommandName == "Delete")
        {
            int employeeId = Convert.ToInt32(e.CommandArgument);
            Response.Redirect($"DeleteEmployee.aspx?id={employeeId}");
        }
    }
}

```

### **DeleteEmployee.aspx:**

```

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

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Delete Employee</title>
    <link rel="stylesheet" type="text/css" href="Styles/styles.css" />
</head>
<body>
    <form id="form1" runat="server">
        <div class="container">
            <header>
                <h1>Delete Employee</h1>
            <nav>
                <ul>

```

```

        <li><a href="Home.aspx">Home</a></li>
        <li><a href="AddEmployee.aspx">Add Employee</a></li>
        <li><a href="DisplayEmployee.aspx">View Employees</a></li>
        <li><a href="SearchEmployee.aspx">Search Employee</a></li>
        <li><a href="UpdateEmployee.aspx">Update Employee</a></li>
        <li><a href="DeleteEmployee.aspx">Delete Employee</a></li>
    </ul>
</nav>
</header>
<main>
    <h2>Delete Employee</h2>
    <div>
        <label>Employee ID:</label>
        <asp:TextBox ID="txtEmployeeID" runat="server"></asp:TextBox>
        <asp:Button ID="btnDelete" runat="server" Text="Delete"
OnClick="btnDelete_Click" />
        <asp:Button ID="btnCancel" runat="server" Text="Cancel"
OnClick="btnCancel_Click" />
    </div>
    <asp:Label ID="lblMessage" runat="server"
ForeColor="Red"></asp:Label>

    <h2>List of Employees</h2>
    <asp:GridView ID="GridView1" runat="server"
AutoGenerateColumns="False">
        <Columns>
            <asp:BoundField DataField="EmployeeID" HeaderText="ID"
ReadOnly="True" />
            <asp:BoundField DataField="FirstName" HeaderText="First
Name" ReadOnly="True" />
            <asp:BoundField DataField="LastName" HeaderText="Last Name"
ReadOnly="True" />
            <asp:BoundField DataField="Email" HeaderText="Email"
ReadOnly="True" />
            <asp:BoundField DataField="MobileNo" HeaderText="Mobile No"
ReadOnly="True" />

```

```

        <asp:BoundField DataField="Department"
HeaderText="Department" ReadOnly="True" />
        <asp:BoundField DataField="Salary" HeaderText="Salary"
ReadOnly="True" />
        <asp:TemplateField HeaderText="Actions">
            <ItemTemplate>
                <asp:Button ID="btnSelect" runat="server" Text="Select"
CommandName="Select"
                CommandArgument='<%# Eval("EmployeeID") %>'
OnCommand="btnSelect_Command" />
            </ItemTemplate>
        </asp:TemplateField>
    </Columns>
</asp:GridView>

</main>
<footer>
    <p>&copy; 2024 Employee Management System</p>
    <p><a href="Logout.aspx">Logout</a></p>
</footer>
</div>
</form>
</body>
</html>

```

### **DeleteEmployee.aspx.cs:**

```

using System;
using System.Data;
using System.Data.SqlClient;
using System.Configuration;
using System.Web.UI.WebControls;

namespace EmployeeManagementSystem
{
    public partial class DeleteEmployee : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)

```

```

{
    if (!IsPostBack)
    {
        BindEmployeeGrid();
    }
}

private void BindEmployeeGrid()
{
    string connectionString =
ConfigurationManager.ConnectionStrings["EmployeeDBConnection"].Connecti
onString;
    using (SqlConnection connection = new
SqlConnection(connectionString))
    {
        string query = "SELECT EmployeeID, FirstName, LastName, Email,
MobileNo, Department, Salary FROM Employee";
        using (SqlCommand command = new SqlCommand(query,
connection))
        {
            try
            {
                connection.Open();
                SqlDataAdapter adapter = new SqlDataAdapter(command);
                DataTable dataTable = new DataTable();
                adapter.Fill(dataTable);
                GridView1.DataSource = dataTable;
                GridView1.DataBind();
            }
            catch (Exception ex)
            {
                lblMessage.Text = "Error loading employee data: " + ex.Message;
            }
        }
    }
}

```

```

private void LoadEmployeeData(string employeeId)
{
    string connectionString =
ConfigurationManager.ConnectionStrings["EmployeeDBConnection"].Connecti
onString;
    using (SqlConnection connection = new
SqlConnection(connectionString))
    {
        string query = "SELECT FirstName, LastName FROM Employees
WHERE EmployeeID = @EmployeeID";
        using (SqlCommand command = new SqlCommand(query,
connection))
        {
            command.Parameters.AddWithValue("@EmployeeID",
employeeId);
            try
            {
                connection.Open();
                SqlDataReader reader = command.ExecuteReader();
                if (reader.Read())
                {
                    txtEmployeeID.Text = employeeId;
                    txtFirstName.Text = reader["FirstName"].ToString();
                    txtLastName.Text = reader["LastName"].ToString();
                }
                else
                {
                    lblMessage.Text = "Employee not found.";
                }
            }
            catch (Exception ex)
            {
                lblMessage.Text = "Error loading data: " + ex.Message;
            }
        }
    }
}

```

```

protected void btnDelete_Click(object sender, EventArgs e)
{
    string employeeId = txtEmployeeID.Text;
    string connectionString =
ConfigurationManager.ConnectionStrings["EmployeeDBConnection"].Connecti
onString;

    using (SqlConnection connection = new
SqlConnection(connectionString))
    {
        string query = "DELETE FROM Employee WHERE EmployeeID =
@EmployeeID";
        using (SqlCommand command = new SqlCommand(query,
connection))
        {
            command.Parameters.AddWithValue("@EmployeeID",
employeeId);

            try
            {
                connection.Open();
                int rowsAffected = command.ExecuteNonQuery();
                lblMessage.Text = rowsAffected > 0 ? "Employee deleted
successfully." : "Delete operation failed.";
                BindEmployeeGrid();
            }
            catch (Exception ex)
            {
                lblMessage.Text = "Error deleting data: " + ex.Message;
            }
        }
    }
}

protected void btnSelect_Command(object sender, CommandEventArgs e)
{

```



```

        txtEmployeeID.Text = e.CommandArgument.ToString();
    }

    protected void btnCancel_Click(object sender, EventArgs e)
    {
        Response.Redirect("DisplayEmployee.aspx");
    }
}
}

```

### **UpdateEmployee.aspx:**

```

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

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Update Employee</title>
    <link rel="stylesheet" type="text/css" href="Styles/styles.css" />
</head>
<body>
    <form id="form1" runat="server">
        <div class="container">
            <header>
                <h1>Update Employee</h1>
                <nav>
                    <ul>
                        <li><a href="Home.aspx">Home</a></li>
                        <li><a href="AddEmployee.aspx">Add Employee</a></li>
                        <li><a href="DisplayEmployee.aspx">View Employees</a></li>
                        <li><a href="SearchEmployee.aspx">Search Employee</a></li>
                        <li><a href="UpdateEmployee.aspx">Update Employee</a></li>
                        <li><a href="DeleteEmployee.aspx">Delete Employee</a></li>
                    </ul>
                </nav>
            </header>

```

```
<main>
  <h2>Update Employee Details</h2>
  <div>
    <label>Employee ID:</label>
    <asp:TextBox ID="txtEmployeeID" runat="server"></asp:TextBox>
  </div>
  <div>
    <label>First Name:</label>
    <asp:TextBox ID="txtFirstName" runat="server"></asp:TextBox>
  </div>
  <div>
    <label>Last Name:</label>
    <asp:TextBox ID="txtLastName" runat="server"></asp:TextBox>
  </div>
  <div>
    <label>Email:</label>
    <asp:TextBox ID="txtEmail" runat="server"></asp:TextBox>
  </div>
  <div>
    <label>Mobile No:</label>
    <asp:TextBox ID="txtMobile" runat="server"></asp:TextBox>
  </div>
  <div>
    <label>Department:</label>
    <asp:TextBox ID="txtDepartment" runat="server"></asp:TextBox>
  </div>
  <div>
    <label>Salary:</label>
    <asp:TextBox ID="txtSalary" runat="server"></asp:TextBox>
  </div>
  <div>
    <label>Designation:</label>
    <asp:TextBox ID="txtDesignation" runat="server"></asp:TextBox>
  </div>
  <div>
    <asp:Button ID="btnUpdate" runat="server" Text="Update"
OnClick="btnUpdate_Click" />
```

```

        <asp:Button ID="btnCancel" runat="server" Text="Cancel"
OnClick="btnCancel_Click" />
    </div>
    <asp:Label ID="lblMessage" runat="server"
ForeColor="Red"></asp:Label>

    <h2>List of Employees</h2>
    <asp:GridView ID="GridView1" runat="server"
AutoGenerateColumns="False">
        <Columns>
            <asp:BoundField DataField="EmployeeID" HeaderText="ID"
ReadOnly="True" />
            <asp:BoundField DataField="FirstName" HeaderText="First
Name" ReadOnly="True" />
            <asp:BoundField DataField="LastName" HeaderText="Last
Name" ReadOnly="True" />
            <asp:BoundField DataField="Email" HeaderText="Email"
ReadOnly="True" />
            <asp:BoundField DataField="MobileNo" HeaderText="Mobile
No" ReadOnly="True" />
            <asp:BoundField DataField="Department"
HeaderText="Department" ReadOnly="True" />
            <asp:BoundField DataField="Salary" HeaderText="Salary"
ReadOnly="True" />
            <asp:TemplateField HeaderText="Actions">
                <ItemTemplate>
                    <asp:Button ID="btnSelect" runat="server" Text="Select"
CommandName="Select"
CommandArgument='<%# Eval("EmployeeID") %>'
OnCommand="btnSelect_Command" />
                </ItemTemplate>
            </asp:TemplateField>
        </Columns>
    </asp:GridView>

</main>
<footer>

```

```
        <p>&copy; 2024 Employee Management System</p>
        <p><a href="Logout.aspx">Logout</a></p>
    </footer>

</div>
</form>
</body>
</html>
```

### **UpdateEmployee.aspx.cs:**

```
using System;
using System.Data.SqlClient;
using System.Configuration;
using System.Data;
using System.Web.UI.WebControls;

namespace EmployeeManagementSystem
{
    public partial class UpdateEmployee : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            if (!IsPostBack)
            {
                BindEmployeeGrid();
                string employeeId = Request.QueryString["EmployeeID"];
                if (!string.IsNullOrEmpty(employeeId))
                {
                    LoadEmployeeData(employeeId);
                }
                else
                {
                    lblMessage.Text = "Invalid or missing Employee ID.";
                }
            }
        }
    }
}
```

```

private void BindEmployeeGrid()
{
    string connectionString =
ConfigurationManager.ConnectionStrings["EmployeeDBConnection"].Connecti
onString;
    using (SqlConnection connection = new
SqlConnection(connectionString))
    {
        string query = "SELECT EmployeeID, FirstName, LastName, Email,
MobileNo, Department, Salary FROM Employee";
        using (SqlCommand command = new SqlCommand(query,
connection))
        {
            try
            {
                connection.Open();
                SqlDataAdapter adapter = new SqlDataAdapter(command);
                DataTable dataTable = new DataTable();
                adapter.Fill(dataTable);
                GridView1.DataSource = dataTable;
                GridView1.DataBind();
            }
            catch (Exception ex)
            {
                lblMessage.Text = "Error loading employee data: " + ex.Message;
            }
        }
    }
}

private void LoadEmployeeData(string employeeId)
{
    string connectionString =
ConfigurationManager.ConnectionStrings["EmployeeDBConnection"].Connecti
onString;
    using (SqlConnection connection = new
SqlConnection(connectionString))

```

```

    {
        string query = "SELECT * FROM Employee WHERE EmployeeID =
@EmployeeID";
        using (SqlCommand command = new SqlCommand(query,
connection))
        {
            command.Parameters.AddWithValue("@EmployeeID",
employeeid);
            try
            {
                connection.Open();
                SqlDataReader reader = command.ExecuteReader();
                if (reader.Read())
                {
                    txtEmployeeID.Text = reader["EmployeeID"].ToString();
                    txtFirstName.Text = reader["FirstName"].ToString();
                    txtLastName.Text = reader["LastName"].ToString();
                    txtEmail.Text = reader["Email"].ToString();
                    txtMobile.Text = reader["MobileNo"].ToString();
                    txtDepartment.Text = reader["Department"].ToString();
                    txtSalary.Text = reader["Salary"].ToString();
                    txtDesignation.Text = reader["Designation"].ToString();
                }
                else
                {
                    lblMessage.Text = "Employee not found.";
                }
            }
            catch (Exception ex)
            {
                lblMessage.Text = "Error loading data: " + ex.Message;
            }
        }
    }
}

```

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

```

{
    string employeeId = txtEmployeeID.Text;
    string connectionString =
ConfigurationManager.ConnectionStrings["EmployeeDBConnection"].Connecti
onString;

    using (SqlConnection connection = new
SqlConnection(connectionString))
    {
        string query = "UPDATE Employee SET FirstName = @FirstName,
LastName = @LastName, Email = @Email, " +
            "MobileNo = @MobileNo, Department = @Department,
Salary = @Salary, Designation = @Designation " +
            "WHERE EmployeeID = @EmployeeID";
        using (SqlCommand command = new SqlCommand(query,
connection))
        {
            command.Parameters.AddWithValue("@EmployeeID",
employeeId);
            command.Parameters.AddWithValue("@FirstName",
txtFirstName.Text);
            command.Parameters.AddWithValue("@LastName",
txtLastName.Text);
            command.Parameters.AddWithValue("@Email", txtEmail.Text);
            command.Parameters.AddWithValue("@MobileNo",
txtMobile.Text);
            command.Parameters.AddWithValue("@Department",
txtDepartment.Text);
            command.Parameters.AddWithValue("@Salary", txtSalary.Text);
            command.Parameters.AddWithValue("@Designation",
txtDesignation.Text);

            try
            {
                connection.Open();
                int rowsAffected = command.ExecuteNonQuery();
            }
        }
    }
}

```

```
        lblMessage.Text = rowsAffected > 0 ? "Employee updated  
successfully." : "Update operation failed.";
```

```
        BindEmployeeGrid();  
    }  
    catch (Exception ex)  
    {  
        lblMessage.Text = "Error updating data: " + ex.Message;  
    }  
}  
}
```

```
protected void btnSelect_Command(object sender, CommandEventArgs e)  
{  
    string employeeId = e.CommandArgument.ToString();  
    LoadEmployeeData(employeeId);  
  
}
```

```
protected void btnCancel_Click(object sender, EventArgs e)  
{  
    Response.Redirect("DisplayEmployee.aspx");  
}  
}
```

### **Styles/styles.css:**

```
body {  
    font-family: Arial, sans-serif;  
    background-color: #f4f4f4;  
    margin: 0;  
    padding: 0;  
}
```

```
.container {  
    width: 80%;
```



```
margin: 50px auto;
padding: 20px;
background-color: white;
border-radius: 5px;
box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}
```

```
header {
  text-align: center;
  margin-bottom: 20px;
}
```

```
header h1 {
  color: #007BFF;
}
```

```
nav {
  background-color: #007BFF;
  padding: 10px;
  border-radius: 5px;
  margin-bottom: 20px;
}
```

```
nav ul {
  list-style-type: none;
  padding: 0;
  text-align: center;
}
```

```
nav ul li {
  display: inline-block;
  margin: 0 10px;
}
```

```
nav ul li a {
  text-decoration: none;
  color: white;
```

```
    font-weight: bold;
    padding: 10px 10px;
    border-radius: 3px;
    transition: background-color 0.3s;
}
```

```
    nav ul li a:hover {
        background-color: #0056b3;
    }
```

```
main {
    text-align: left;
    margin-bottom: 20px;
}
```

```
main h2 {
    color: #333;
}
```

```
main div {
    margin-bottom: 15px;
}
```

```
label {
    font-weight: bold;
    display: inline-block;
    width: 200px;
}
```

```
footer {
    text-align: center;
    font-size: 0.9em;
    color: #666;
}
```

```
.btn {
    padding: 10px;
```

```
background-color: #007BFF;  
color: white;  
border: none;  
border-radius: 3px;  
cursor: pointer;  
margin-right: 10px;  
}
```

```
.btn:hover {  
    background-color: #0056b3;  
}
```

```
.grid-view {  
    margin-top: 20px;  
    border-collapse: collapse;  
    width: 100%;  
}
```

```
.grid-view th, .grid-view td {  
    border: 1px solid #ddd;  
    padding: 8px;  
}
```

```
.grid-view th {  
    background-color: #007BFF;  
    color: white;  
}
```

```
.grid-view tr:nth-child(even) {  
    background-color: #f2f2f2;  
}
```

```
.grid-view tr:hover {  
    background-color: #ddd;  
}
```

Output:

Login:

Admin Login

Username:

admin

Password:

.....

Login

[Logout](#)

Logout:

You have been logged out.

Return to Login

Home:

Employee Management System

Home

Add Employee

View Employees

Search Employee

Update Employee

Delete Employee

Welcome to the Employee Management System

The Employee Management System is a comprehensive platform designed to streamline the management of employee information. It allows for efficient handling of CRUD operations—Create, Read, Update, and Delete—ensuring that employee data is always up-to-date and easily accessible. Admin can add new employees, view detailed employee profiles, search for specific employees, update existing employee information, and delete records as needed. This system is essential for maintaining an organized and efficient workplace, providing a user-friendly interface for managing all aspects of employee data.

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[Logout](#)

Add:

Add New Employee

Home

Add Employee

View Employees

Search Employee

Update Employee

Delete Employee

Enter Employee Details

First Name:

aditya

Last Name:

nair

Email:

ad12@gmail.com

Mobile No:

1452678549

Department:

IT

Salary:

32000

Designation:

MERN Developer

Submit

Cancel

© 2024 Employee Management System

Logout

Update:

Update Employee

Home

Add Employee

View Employees

Search Employee

Update Employee

Delete Employee

Update Employee Details

Employee ID:

1

First Name:

vivek

Last Name:

makwana

Email:

vivek123@gmail.com

Mobile No:

9313090299

Department:

IT

Salary:

25000

Designation:

Developer

Update

Cancel

Employee updated successfully.

List of Employees

ID	First Name	Last Name	Email	Mobile No	Department	Salary	Actions
1	vivek	makwana	vivek123@gmail.com	9313090299	IT	25000	Select
4	nikhil	lathiya	nik@gmail.com	1452785964	MCA	30000	Select
5	ayush	raja	ayush21@gmail.com	4512753687	MBA	25000	Select

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Display:

Employee List

Home

Add Employee

View Employees

Search Employee

Update Employee

Delete Employee

List of Employees

ID	First Name	Last Name	Email	Mobile No	Department	Salary	Actions
1	vivek	makwana	vivek123@gmail.com	9313090299	IT	12000	<div>EditDelete</div>
4	nikhil	lathiya	nik@gmail.com	1452785964	MCA	30000	<div>EditDelete</div>
5	ayush	raja	ayush21@gmail.com	4512753687	MBA	25000	<div>EditDelete</div>

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Logout

Search:

Search Employee

Home

Add Employee

View Employees

Search Employee

Update Employee

Delete Employee

Search for an Employee

Search by ID or Name:

1

Search

ID	First Name	Last Name	Actions
1	vivek	makwana	<div>EditDelete</div>

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Logout

Delete:

Delete Employee

HomeAdd EmployeeView EmployeesSearch EmployeeUpdate EmployeeDelete Employee

Delete Employee

Employee ID: 

DeleteCancel

List of Employees

ID	First Name	Last Name	Email	Mobile No	Department	Salary	Actions
1	vivek	makwana	vivek123@gmail.com	9313090299	IT	25000	Select
4	nikhil	lathiya	nik@gmail.com	1452785964	MCA	30000	Select
5	ayush	raja	ayush21@gmail.com	4512753687	MBA	25000	Select
7	mihir	makwana	m985@outlook.com	8529635124	Account	50000	Select

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[Logout](#)

Delete Employee

HomeAdd EmployeeView EmployeesSearch EmployeeUpdate EmployeeDelete Employee

Delete Employee

Employee ID: 

DeleteCancel

Employee deleted successfully.

List of Employees

ID	First Name	Last Name	Email	Mobile No	Department	Salary	Actions
1	vivek	makwana	vivek123@gmail.com	9313090299	IT	25000	Select
4	nikhil	lathiya	nik@gmail.com	1452785964	MCA	30000	Select
5	ayush	raja	ayush21@gmail.com	4512753687	MBA	25000	Select

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[Logout](#)