**A Sample GUI Based Form with Database Connectivity and client side validation**

<%@ Page Language="VB"%>

<%@ Import Namespace="System.Data.OleDb"%>

<html>

<script language="VB" runat=server>

Sub Insert\_Click(Src As Object, E As EventArgs)

' Connect to Database

Dim cnAccess As New OleDbConnection("Provider=Microsoft.Jet.OLEDB.4.0;data source=" & Server.MapPath("Bank.mdb"))

cnAccess.Open()

dim sID, sFName, sLName, sAge, s.Email, sInsertSQL as string

sID = eID.Text

sFName = FName.Text

sLName = LName.Text

sAge = Age.Text

s.Email = txtemail.Text

'Make the insert statement

sInsertSQL = "insert into employees values(" & sID & ",'" & sFName & "','" & sLName & "'," & sAge & "," & sEmail & ")"

'Make the OleDbCommand object

dim cmdInsert as New OleDbCommand(sInsertSQL,cnAccess)

' This not a query so we do not expect any return data so use

' the ExecuteNonQuery method

cmdInsert.ExecuteNonQuery()

response.write ("Data recorded!")

End Sub

</script>

<body>

<form id="Form1" runat=server>

<h3><font face="Verdana">Enter Employee Details</font></h3>

<table>

<tr>

<td>ID:</td>

<td><asp:textbox id="eID" runat="server"/></td>

</tr>

<tr>

<td>First Name: (Required)</td>

<td><asp:textbox id="FName" runat="server"/></td>

<p><asp:RequiredFieldValidator ID="rfvfname" runat="server" ControlToValidate="FName" ErrorMessage="Enter your First Name" > </asp:RequiredFieldValidator></p>

</tr>

<tr>

<td>Last Name:</td>

<td><asp:textbox id="LName" runat="server"/></td>

</tr>

<tr>

<td>Age: (Required)</td>

<td><asp:textbox id="Age" runat="server"/></td>

<p><asp:RangeValidator ControlToValidate="Age" MinimumValue="16" MaximumValue="50" Type="Integer" Text="The age must be from 16 to 50!"  
runat="server" /></p>

</tr>

<tr>

<td>Email: (Required)</td>

<td><asp:TextBox ID="txtemail" runat="server"></asp:TextBox></td>

<p> <asp:RegularExpressionValidator ID="remail" runat="server" ControlToValidate="txtemail" ErrorMessage="Enter your email" ValidationExpression="\w+([-+.']\w+)\*@\w+([-.]\w+)\*\.\w+([-.]\w+)\*">

</asp:RegularExpressionValidator></p>

</tr>

</table>

<asp:button ID="Button1" text="Insert" OnClick="Insert\_Click" runat=server/>

<p>

<asp:Label id="Msg" ForeColor="red" Font-Name="Verdana" Font-Size=

"10" runat=server />

</form>

</body>

</html>

[ NOTE: This is ASP.NET validation(**Server side validation)** *use javascript for client side validation.* Similarly we can validate password by using Regular Expression Validation control

eg:

<td><asp:TextBox ID="txtPassword" runat="server"></asp:TextBox></td>

<asp:RegularExpressionValidator ID="rev1" runat="server"

ControlToValidate="txtPassword" ErrorMessage="Password must contain: Minimum 8 characters atleast 1 Alphabet and 1 Number" ValidationExpression="^(?=.\*[A-Za-z])(?=.\*\d)[A-Za-z\d]{8,}$"/>

(Here,Minimum 8 characters at least 1 Alphabet and 1 Number are only accepted for password, if you want to insert in database the u have to create a variable of password and make a query to insert in database as similar to email added in above example)

**You can add or remove fields as required.** ]

### The HTML DOM Tree of Objects



Yes, creating timetable is similar to creating tables in HTML but use standard format of writing HTML.

Eg:

<!DOCTYPE html>

<html>

<head>

<title>Page Title</title>

</head>

<body>

<h1>This is a Heading</h1>

<p>This is a paragraph.</p>

<table style="width:100%">

<tr>

<td>

<table>

<tr>

<th>First Period (06:30-08:00)</th>

<th>Second Period (08:00-09:30)</th>

<th>Third Period (09:30-10:00)</th>

.........

.........

</tr>

</table>

<td>

</tr>

<tr>

<td>Web technology</td>

<td>RTS</td>

<td>OS</td>

......

.......

</tr>

</table>

</body>

</html>

**Add more contents in above eg. and if possible try to make the DOM tree of objects.**

[NOTE: See notes of last class.]