

Day-14

Database creation

Use [GridData]

```
CREATE TABLE [dbo].[OperatingSystem](
[OSId] [int] IDENTITY(1,1) NOT NULL,
[OSName] [varchar](100) NULL,
[CreateDate] [datetime] NULL,
[Status] [smallint] NULL,
CONSTRAINT [PK_OperatingSystem] PRIMARY KEY
CLUSTERED
(
[OSId] ASC
)WITH (PAD_INDEX = OFF,
STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY
= OFF, ALLOW_ROW_LOCKS = ON,
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]

GO
```

```
SET ANSI_PADDING OFF
GO
```

```
ALTER TABLE [dbo].[OperatingSystem] ADD DEFAULT
(getdate()) FOR [CreateDate]
GO
```

```
ALTER TABLE [dbo].[OperatingSystem] ADD DEFAULT ('1')
FOR [Status]
GO
```

```
//Create Procedure
Create Procedure [dbo].[InsertSystemName]
(
  @OSName varchar(50)
)
AS
BEGIN
insert into OperatingSystem(OSName) values(@OSName)
END
```

```
//Get Data Procedure
ALTER Procedure [dbo].[GetSystemsData]
As
Begin
select * from OperatingSystem where Status='1'
End
```

```
ALTER Procedure [dbo].[UpdateSystems]
(
```

```
@Id int,  
@Name varchar(100),  
@Status int  
)  
As  
BEGIN  
update OperatingSystem set OSName=@Name,Status=@Status  
where OSId=@Id  
END
```

```
//Delete Procedure  
ALTER Procedure [dbo].[DeleteSystemsData]  
(  
@Id int  
)  
As  
Begin  
update OperatingSystem set Status='0' where OSId=@Id  
  
End
```

Databaselayer-SqlHelper.cs

```
public static string CONNECTION_STRING =  
ConfigurationManager.ConnectionStrings["Data  
Source=WIN-VU1R6I95I3U;Initial  
Catalog=AssignmentDb;Integrated  
Security=True"].ConnectionString;
```

```

public static DataSet
ExecuteParamerizedSelectCommand(string
CommandName, CommandType cmdType,
SqlParameter[] param)
{
    DataSet ds = new DataSet();

    using (SqlConnection con = new
SqlConnection(CONNECTION_STRING))
    {
        using (SqlCommand cmd = con.CreateCommand())
        {
            cmd.CommandType = cmdType;
            cmd.CommandText = CommandName;
            cmd.Parameters.AddRange(param);
            try
            {
                if (con.State != ConnectionState.Open)
                {
                    con.Open();
                }

                using (SqlDataAdapter da = new
SqlDataAdapter(cmd))
                {
                    da.Fill(ds);
                }
            }
        }
    }
}

```

```

        catch
        {
            throw;
        }
    }
}
return ds;
}

```

```

public static bool ExecuteNonQuery(string
CommandName, CommandType cmdType,
SqlParameter[] pars)
{
    int result = 0;

    using (SqlConnection con = new
SqlConnection(CONNECTION_STRING))
    {
        using (SqlCommand cmd = con.CreateCommand())
        {
            cmd.CommandType = cmdType;
            cmd.CommandText = CommandName;
            cmd.Parameters.AddRange(pars);

            try
            {
                if (con.State != ConnectionState.Open)
                {

```

```

        con.Open();
    }
    result = cmd.ExecuteNonQuery();
}
catch
{
    throw;
}
}
}
return (result > 0);
}

```

EntityLayer-GridEntity.CS

```

public class OperatingSystemEntity
{
    public int OSId
    {
        get;
        set;
    }
    public string OSName
    {
        get;
        set;
    }
    public DateTime CreateDate

```

```
{
    get;
    set;
}
public int Status
{
    get;
    set;
}
}
```

DAL-GridData.cs

```
public class GridData
{
    public bool CreateSystem(OperatingSystemEntity
SEntity)
    {
        SqlParameter[] parameters = new SqlParameter[] {
            new SqlParameter("@OSName",
SEntity.OSName),

        };
    }
}
```

```

        return
        SqlHelper.ExecuteNonQuery("InsertSystemName",
        CommandType.StoredProcedure, parameters);
    }

    public List<OperatingSystemEntity>
    GetSystemsData(OperatingSystemEntity SEntity)
    {
        List<OperatingSystemEntity> ListEntry = null;
        SqlParameter[] parameters = new SqlParameter[] {

        };
        using (DataSet ds =
        SqlHelper.ExecuteParamerizedSelectCommand("GetSyst
        emsData", CommandType.StoredProcedure, parameters))
        {
            if (ds.Tables.Count > 0)
            {

                ListEntry = new
                List<OperatingSystemEntity>();

                foreach (DataRow row2 in ds.Tables[0].Rows)
                {
                    OperatingSystemEntity entry = new
                    OperatingSystemEntity();
                    entry.OSId =
                    Convert.ToInt32(row2["OSId"].ToString());
                }
            }
        }
    }

```



```

        entry.OSName =
row2["OSName"].ToString();
        entry.CreateDate =
Convert.ToDateTime(row2["CreateDate"].ToString());
        entry.Status =
Convert.ToInt32(row2["Status"].ToString());
        ListEntry.Add(entry);
    }
}
}

```

```

    return ListEntry;
}

```

```

public bool UpdateSystems(OperatingSystemEntity
SEntity)
{
    SqlParameter[] parameters = new SqlParameter[] {
        new SqlParameter("@Id", SEntity.OSId),
        new SqlParameter("@Name",
SEntity.OSName),
        new SqlParameter("@Status", SEntity.Status),
    };

    return
SqlHelper.ExecuteNonQuery("UpdateSystems",
CommandType.StoredProcedure, parameters);
}

```

```

public bool DeleteSystem(OperatingSystemEntity
SEntity)
{
    SqlParameter[] parameters = new SqlParameter[] {
        new SqlParameter("@Id", SEntity.OSId),
    };

    return
    SqlHelper.ExecuteNonQuery("DeleteSystemsData",
    CommandType.StoredProcedure, parameters);
}
}
}

```

NewGrid.aspx

```

< asp:Content ID = "Content1"
ContentPlaceHolderID="head" runat="server">
    <script language="javascript" type="text/javascript">
        function validate() {

            if (document.getElementById("<%=txtname.ClientID
%>").value == "")
            {

```

```
        alert("Please Enter Name");
        document.getElementById("<%=txtname.ClientID
%>").focus();
        return false;
    }
}
```

```
    </ script >
</ asp:Content >
< asp:Content ID = "Content2"
ContentPlaceHolderID="Body" runat="server">
    <div>
        <h2 style="width: 80%">
            <u>Create System</u></h2>
        <table>
            <tr>
                <td colspan="2">
                    <asp:Label runat = "server"
ID="lblmsgerror" Font-Bold="true"></asp:Label >

                    </ td >

                </ tr >

                < tr >

                    < td >
```

```
        < asp:Label ID = "lblname"
runat="server" Text="SystemName"></asp:Label >
```

```
    </ td >
```

```
    < td >
```

```
        < asp:TextBox ID = "txtname"
runat="server"></asp:TextBox >
```

```
    </ td >
```

```
    </ tr >
```

```
    < tr >
```

```
        < td >
```

```
    </ td >
```

```
    < td >
```

```
        < asp:Button ID = "btnsave"
runat="server" Text="Save" OnClick="btnsave_Click" />
```

```
    </td>
```

```
    </tr>
```

```
    </table>
```

```
    </div>
```

```

<h2 style="width: 80%">
    <u>Total Availble Systems</u></h2>
<p>
    <asp:Label runat = "server" ID="lblmsg"
ForeColor="Red" Font-Bold="true"></asp:Label >

</ p >

< div >

    < asp:GridView ID = "gvSystem" runat="server"
AutoGenerateColumns="false"
OnRowUpdating="gvSystem_RowUpdating"
OnRowEditing="gvSystem_RowEditing"
OnRowDeleting="gvSystem_RowDeleting"
DataKeyNames="OSId"
OnRowCancelingEdit="gvSystem_RowCancelingEdit">
    <Columns>
        <asp:TemplateField >
            < EditItemTemplate >
                < asp:ImageButton ID =
"imgbtnUpdate" CommandName="Update"
runat="server" ImageUrl="~/Images/Update.jpg"
ToolTip="Update" Height="20px" Width="20px" />
                <asp:ImageButton ID =
"imgbtnCancel" runat="server"
CommandName="Cancel"

```

```

ImageUrl="~/Images/Cancel.jpg" ToolTip="Cancel"
Height="20px" Width="20px" />
</EditItemTemplate>
<ItemTemplate>
    <asp:ImageButton ID = "imgbtnEdit"
CommandName="Edit" runat="server"
ImageUrl="~/Images/Edit.jpg" ToolTip="Edit"
Height="20px" Width="20px" />
    <asp:ImageButton ID =
"imgbtnDelete" CommandName="Delete"
OnClickClick="return confirm('Are you sure you want to
delete selected record?')" Text="Edit" runat="server"
ImageUrl="~/images/Delete.jpg" ToolTip="Delete"
Height="20px" Width="20px" />
    </ItemTemplate>
</asp:TemplateField >
< asp:TemplateField HeaderText = "System
Name" >

```

```

< EditItemTemplate >

```

```

    < asp:TextBox ID = "txtname"
runat="server" Text='<%#
Eval("OSName")%>'></asp:TextBox >

```

```

</ EditItemTemplate >

```

```

< ItemTemplate >

```

```
        < asp:Label ID = "lblname"  
runat="server" Text='<%#  
Eval("OSName")%>'></asp:Label >
```

```
</ ItemTemplate >
```

```
</ asp:TemplateField >
```

```
    < asp:TemplateField HeaderText =  
"Date Of Created" >
```

```
    < ItemTemplate >
```

```
        < asp:Label ID = "lbldate"  
runat="server" Text='<%#  
Eval("CreateDate")%>'></asp:Label >
```

```
</ ItemTemplate >
```

```
</ asp:TemplateField >
```

```
    < asp:TemplateField HeaderText =  
"Status" >
```

```
    < EditItemTemplate >
```

```

        < asp:TextBox ID =
"txtstatus" runat="server" Text='<%#
Eval("Status")%>'></asp:TextBox >

    </ EditItemTemplate >

    < ItemTemplate >

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

    </ ItemTemplate >

</ asp:TemplateField >

</ Columns >

</ asp:GridView >

</ div >
</ asp:Content >

```

NewGrid.aspx.cs

```

OperatingSystemEntity SEntity = new
OperatingSystemEntity();

```



```
GridData GData = new GridData();
```

```
protected void Page_Load(object sender, EventArgs e)
{
    btnsave.Attributes.Add("onclick", "return validate()");
    if (!IsPostBack)
    {
        BindData();
    }
}
```

```
protected void btnsave_Click(object sender, EventArgs e)
{
    SEntity.OSName = txtname.Text;

    if (GData.CreateSystem(SEntity) == true)
    {
        lblmsgerror.ForeColor = Color.Green;
        lblmsgerror.Text = "System Name Saved  
Successfully";
        BindData();
        txtname.Text = "";
    }
    else
    {
        lblmsgerror.ForeColor = Color.Red;
        lblmsgerror.Text = "System Name Already Exists ";
    }
}
```

```
}
```

```
private void BindData()
```

```
{
```

```
    List<OperatingSystemEntity> SList =  
    GData.GetSystemsData(SEntity);
```

```
    if (SList.Count != 0)
```

```
    {
```

```
        gvSystem.DataSource = SList;
```

```
        gvSystem.DataBind();
```

```
    }
```

```
    else
```

```
    {
```

```
        lblmsg.Text = "No Data found..";
```

```
    }
```

```
}
```

```
private static String GetTextFromRowBox(GridDataRow  
row, String field)
```

```
{
```

```
    return ((TextBox)row.FindControl(field)).Text;
```

```
}
```

```
protected void gvSystem_RowUpdating(object sender,  
GridViewUpdateEventArgs e)
```

```
{
```

```

    int id =
    Convert.ToInt32(gvSystem.DataKeys[e.RowIndex].Value
s["OSId"].ToString());
    GridViewRow row = gvSystem.Rows[e.RowIndex];

    SEntity.OSName = GetTextFromRowBox(row,
"txtname");
    SEntity.Status =
    Convert.ToInt32(GetTextFromRowBox(row,
"txtstatus").ToString());
    SEntity.OSId = id;

    if (GData.UpdateSystems(SEntity) == true)
    {
        gvSystem.EditIndex = -1;
        BindData();
        lblmsg.Text = "Records Updated sucessfully";
    }
    else
    {
        lblmsg.Text = "Updation Failed";
    }
}

protected void gvSystem_RowEditing(object sender,
GridViewEditEventArgs e)
{
    gvSystem.EditIndex = e.NewEditIndex;

```

```
    BindData();  
}
```

```
protected void gvSystem_RowCancelingEdit(object  
sender, GridViewCancelEventArgs e)  
{  
    gvSystem.EditIndex = -1;  
    BindData();  
}
```

```
protected void gvSystem_RowDeleting(object sender,  
GridViewDeleteEventArgs e)  
{  
    int ID =  
Convert.ToInt32(gvSystem.DataKeys[e.RowIndex].Value  
s["OSId"].ToString());  
  
    deleterecords(ID);  
}
```

```
private void deleterecords(int ID)  
{  
    SEntity.OSId = ID;  
  
    if (GData.DeleteSystem(SEntity) == true)  
    {  
        lblmsg.Text = "Records deleted sucessfully...";  
        BindData();  
    }
```

```
        lblmsg.Text = "";
    }
    else
    {
        lblmsg.ForeColor = Color.Red;
        lblmsg.Text = "Records deleted failed...";
        BindData();
        lblmsg.Text = "";
    }
}
```