**APPENDICES**

# Appendix A: DataBase Script

Create database PROTECT

Go

Use PROTECT

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

SET ANSI\_PADDING ON

GO

CREATE TABLE [dbo].[up](

[sno] [int] IDENTITY(1,1) NOT NULL,

[upby] [varchar](20) NULL,

[fname] [varchar](50) NULL,

[fext] [varchar](6) NULL,

[fsize] [varchar](50) NULL,

[files] [varbinary](max) NULL,

[Dt] [nvarchar](50) NULL,

[enkey] [varchar](50) NULL,

[entxt] [varchar](50) NULL,

[image] [nvarchar](20) NULL,

[Download] [int] NOT NULL,

PRIMARY KEY CLUSTERED

(

[sno] 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

/\*\*\*\*\*\* Object: Table [dbo].[regis] \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[regis](

[sno] [int] IDENTITY(1,1) NOT NULL,

[name] [nvarchar](50) NULL,

[Email] [nvarchar](50) NULL,

[usname] [nvarchar](50) NULL,

[pwd] [nvarchar](50) NULL,

[Dob] [nvarchar](50) NULL,

[city] [nvarchar](50) NULL,

PRIMARY KEY CLUSTERED

(

[sno] 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

/\*\*\*\*\*\* Object: Table [dbo].[alphakeys] Script Date: 01/22/2016 15:39:15 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[alphakeys](

[alphabets] [nvarchar](50) NULL,

[keys] [nvarchar](50) NULL

) ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Default [DF\_up\_Download] Script Date: 01/22/2016 15:39:15 \*\*\*\*\*\*/

ALTER TABLE [dbo].[up] ADD CONSTRAINT [DF\_up\_Download] DEFAULT ((0)) FOR [Download]

GO

# Appendix B: Source Code

**AdminLogin.aspx:**

<%@ Page Title="" Language="C#" MasterPageFile="~/Home.master" AutoEventWireup="true" CodeFile="AdminLogin.aspx.cs" Inherits="AdminLogin" %>

<asp:Content ID="Content1" ContentPlaceHolderID="ContentPlaceHolder1" Runat="Server">

<h1 style="text-align:center; color: #FFFFFF;">Admin Login</h1>

<asp:Panel ID="panel1" runat="server" >

<table style="width: 893px; margin-top:80px">

<tr>

<td style="width: 364px">

</td>

<td style="width: 29px">

</td>

<td>

</td>

</tr>

<tr>

<td style="width: 364px">

</td>

<td style="width: 29px">

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<td>

</td>

</tr>

<tr>

<td style="width: 364px">

</td>

<td style="width: 29px">

</td>

<td>

</td>

</tr>

<tr>

<td style="width: 364px; text-align: right; color: #FFFFFF;">

<strong>User Name</strong></td>

<td style="width: 29px; text-align: center; font-weight: bold; color: #FFFFFF;">

<strong>:</strong></td>

<td>

<asp:TextBox ID="text1" runat="server"></asp:TextBox>

</td>

</tr>

<tr>

<td style="width: 364px">

</td>

<td style="width: 29px">

</td>

<td>

</td>

</tr>

<tr>

<td style="width: 364px; text-align: right; color: #FFFFFF;">

<strong>Password</strong></td>

<td style="width: 29px; text-align: center; font-weight: bold; color: #FFFFFF;">

<strong>:</strong></td>

<td>

<asp:TextBox ID="text2" runat="server" TextMode="Password"></asp:TextBox>

</td>

</tr>

<tr>

<td style="width: 364px">

</td>

<td style="width: 29px">

</td>

<td>

</td>

</tr>

<tr>

<td style="width: 364px">

<asp:Button ID="Button1" runat="server" Text="Login" style="margin-left:330px"

Width="69px" onclick="Button1\_Click" />

</td>

<td style="width: 29px">

</td>

<td>

&nbsp;</td>

</tr>

<tr>

<td style="width: 364px">

</td>

<td style="width: 29px">

</td>

<td>

</td>

</tr>

<tr>

<td style="width: 364px">

</td>

<td style="width: 29px">

</td>

<td>

</td>

</tr>

</table>

</asp:Panel>

</asp:Content>

**AdminLogin.aspx.cs:**

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.Configuration;

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

{

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

{

}

protected void Button1\_Click(object sender, EventArgs e)

{

if (text1.Text == "admin" && text2.Text == "admin")

{

Response.Redirect("Adminhome.aspx");

}

else

{

Response.Write("<script>alert('Invalid Login')</script>");

}

}

}

**Fileupload.aspx:-**

<%@ Page Title="" Language="C#" MasterPageFile="~/User.master" AutoEventWireup="true" CodeFile="Fileupload.aspx.cs" Inherits="Fileupload" %>

<asp:Content ID="Content1" ContentPlaceHolderID="ContentPlaceHolder1" Runat="Server">

<center><asp:Label ID="label3" Text="Welcome to:" Font-Bold="true"

Font-Size="XX-Large" runat="server" style="color: #FFFFFF"></asp:Label>

<asp:Label ID="label4" Font-Bold="true" Font-Size="XX-Large" runat="server"

style="color: #FFFFFF"></asp:Label></center>

<h1 style="color:White; text-align:center">File Upload</h1>

<asp:Panel ID="panel1" runat="server" style="float:left">

<table style="width: 559px">

<tr>

<td style="width: 208px">

</td><td style="width: 232px">

</td>

</tr>

<tr>

<td style="width: 208px; text-align: right; color: #FFFFFF;">

<strong>File ID :</strong></td>

<td style="width: 232px">

<asp:Label id="label1" runat="server" style="font-weight: 700; color: #FFFFFF;"></asp:Label>

</td>

</tr>

<tr>

<td style="width: 208px">

</td><td style="width: 232px">

</td>

</tr>

<tr>

<td style="text-align: right; width: 208px; color: #FFFFFF;">

<strong>File Name

:

</strong>

</td><td style="width: 232px">

<asp:TextBox ID="text1" runat="server" ></asp:TextBox>

</td>

</tr>

<tr>

<td style="width: 208px">

</td><td style="width: 232px">

</td>

</tr>

<tr>

<td style="width: 208px; text-align: right; height: 23px; color: #FFFFFF;">

<strong>File :</strong></td>

<td style="height: 23px; width: 232px;">

<asp:FileUpload ID="fileupload1" runat="server" />

</td>

</tr>

<tr>

<td style="width: 208px">

</td><td style="width: 232px">

</td>

</tr>

<tr>

<td style="width: 208px; text-align: right; font-weight: 700; color: #FFFFFF;">

<strong>Date :</strong></td><td style="width: 232px">

<asp:Label id="label2" runat="server" style="font-weight: 700; color: #FFFFFF;"></asp:Label>

</td>

</tr>

<tr>

<td style="width: 208px">

<asp:Label ID="lbl\_encrypt" runat="server"></asp:Label></td>

<td style="width: 232px">

</td>

</tr>

<tr>

<td style="width: 208px; height: 23px;">

</td><td style="height: 23px; width: 232px;">

<asp:Button ID="Button1" runat="server" Text="Upload!"

onclick="Button1\_Click" />

</td>

</tr>

</table>

</asp:Panel>

<asp:Panel ID="panel2" runat="server" style="float:right">

<asp:Image ID="Image1" runat="server" Height="146px" Width="192px" />

<asp:TextBox ID="Encrypt1" TextMode="MultiLine" runat="server" Height="146px" Width="192px" />

<br />

<br /><asp:Button ID="Enclick" text="Encrypt" runat="server"

style="margin-left:150px" onclick="Enclick\_Click" />

& nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

<asp:Label ID="entxt" runat="server" Text="file Encrypted"

style="color: #FFFFFF"></asp:Label>

</asp:Panel>

</asp:Content>

**Fileupload.aspx.cs :-**

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.Configuration;

using System.IO;

using System.Text;

using System.Security.Cryptography;

using System.Net;

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

{

string fname, ext, filesize,ext1,fname1,img;

float filesiz;

StringBuilder sb = new StringBuilder();

search ob = new search();

SqlConnection con = new SqlConnection(ConfigurationManager.ConnectionStrings["key"].ConnectionString);

protected voidPage\_ Load(object sender, EventArgs e)

{

label4.Text = Session["uname"].ToString();

DateTime dt = DateTime.Now;

label2.Text = Convert.ToString(dt);

panel2.Visible = false;

label1.Text = Convert.ToString(ob.fileid());

}

Protected voidButton1\_ Click(object sender, EventArgs e)

{

fileupload1.SaveAs(Server.MapPath("~/upload/") + fileupload1.FileName);

fname = Path.GetFileName(fileupload1.FileName);

fname1 = Path.GetFileName(fileupload1.FileName);

ext1 = Path.GetExtension(fileupload1.FileName);

Session["ext"] = ext1;

Session["fname"] = fname1;

ext = Path.GetExtension(fileupload1.FileName);

filesiz = (float)fileupload1.PostedFile.ContentLength / 1024;

filesize = Convert.ToString(filesiz) + "KB";

// Panel2.Visible = true;

if (fileupload1.PostedFile == null || String.IsNullOrEmpty(fileupload1.PostedFile.FileName) || fileupload1.PostedFile.InputStream == null || text1.Text == "")

{

Response.Write("<script>alert('Error - unable to upload file. Please try again.')</script>");

}

else

{

ext = Path.GetExtension(fileupload1.FileName);

bool useHashing = true;

string clearText = text1.Text.Trim();

string cipherText = encryption.Encrypt(clearText, ext, true);

//Response.Write(clearText + "<br>");

sb.Append(clearText + "<br>");

byte[] keyArray;

byte[] toEncryptArray = UTF8Encoding.UTF8.GetBytes(clearText);

System.Configuration.AppSettingsReader settingsReader = new AppSettingsReader();

string key = (string)settingsReader.GetValue("SecurityKey", typeof(string));

if (useHashing)

{

MD5CryptoServiceProvider hashmd5 = new MD5CryptoServiceProvider();

keyArray = hashmd5.ComputeHash(UTF8Encoding.UTF8.GetBytes(key));

hashmd5.Clear();

}

else

keyArray = UTF8Encoding.UTF8.GetBytes(key);

TripleDESCryptoServiceProvider tdes = new TripleDESCryptoServiceProvider();

tdes.Key = keyArray;

tdes.Mode = CipherMode.ECB;

tdes.Padding = PaddingMode.PKCS7;

ICryptoTransform cTransform = tdes.CreateEncryptor();

byte[] resultArray = cTransform.TransformFinalBlock(toEncryptArray, 0, toEncryptArray.Length);

tdes.Clear();

for (int x = 0; x < toEncryptArray.Length; x++)

{

//Response.Write(toEncryptArray[x].ToString() + "<br>");

sb.Append(toEncryptArray[x].ToString() + "<br>");

}

sb.Append("<br>");

for (int c = 0; c < resultArray.Length; c++)

{

// Response.Write(resultArray[c].ToString() + "<br>");

sb.Append(resultArray[c].ToString() + "<br>");

}

//Response.Write(Convert.ToBase64String(resultArray, 0, resultArray.Length));

sb.Append(Convert.ToBase64String(resultArray, 0, resultArray.Length) + "<br>");

sb.Append("<br><br>");

lbl\_encrypt.Visible = false;

lbl\_encrypt.Text = cipherText;

byte[] filebytes = new byte[fileupload1.PostedFile.InputStream.Length + 1];

fileupload1.PostedFile.InputStream.Read(filebytes, 0, filebytes.Length);

if (ext == ".txt")

{

img="txt.png";

}

else if (ext == ".docx")

{

img = "doc.png";

}

else

{

img = fname1;

}

ob.uploadfile(label4.Text,fname, ext1, filesize, filebytes, label2.Text, lbl\_encrypt.Text,img);

Cloudupload();

Response.Redirect("fview.aspx");

panel2.Visible = true;

if (ext == ".txt" || ext == ".docx")

{

Encrypt1.Text = File.ReadAllText(Server.MapPath("~/upload/")+fname);

Encrypt1.Visible = true;

Image1.Visible = false;

}

if (ext == ".jpf" || ext == ".png" || ext == ".jpeg")

{

Image1.ImageUrl="~/upload/"+fname;

Image1.Visible = true;

Encrypt1.Visible = false;

}

}

}

public void Cloudupload()

{

FtpWebRequest myFtpWebRequest;

FtpWebResponse myFtpWebResponse;

StreamWriter myStreamWriter;

NetworkCredential myNetworkCredential;

StreamWriter myStream;

StreamReader myReadStream;

myFtpWebRequest = (FtpWebRequest)FtpWebRequest.Create(new Uri("ftp://ftp.drivehq.com/" + fileupload1.FileName));

myNetworkCredential = new NetworkCredential();

myNetworkCredential.UserName = "CloudComputing";

myNetworkCredential.Password = "publicclouds";

myFtpWebRequest.Credentials = myNetworkCredential;

myFtpWebRequest.Method = WebRequestMethods.Ftp.UploadFile;

myFtpWebRequest.UseBinary = true;

myStream = new StreamWriter(myFtpWebRequest.GetRequestStream());

myStreamWriter = myStream;

fileupload1.SaveAs(Server.MapPath("~/upload/") + fileupload1.FileName);

myReadStream = new StreamReader(Server.MapPath("~/upload/") + fileupload1.FileName );

myStreamWriter.Write(myReadStream.ReadToEnd()+fileupload1);

myStreamWriter.Close();

myReadStream.Close();

myFtpWebResponse = (FtpWebResponse)myFtpWebRequest.GetResponse();

// Label16.Text = "File Uploaded Successfully..";

myFtpWebResponse.Close();

// grid();

//Literal1.Text = sb.ToString();

}

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

{

}

}