



# ASP.NET 课程设计

课程名称：

基于 ASP.NET+ACCESS+XML 的在线考试系统

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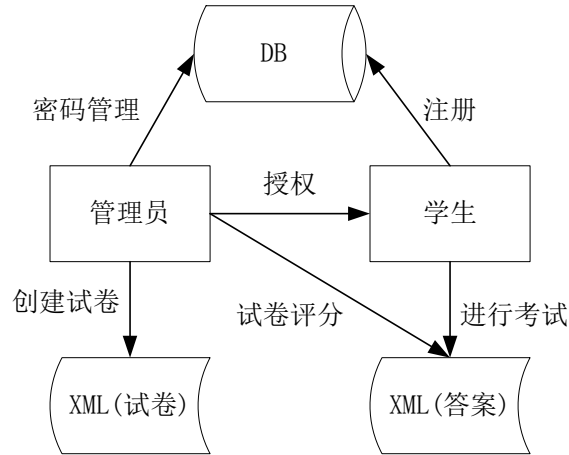
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# 1、系统概述

本系统使用 ASP.NET 技术实现前台页面技术、使用 ACCESS 作为用户及事务管理、使用 XML 系统使用过程中生成的数据。

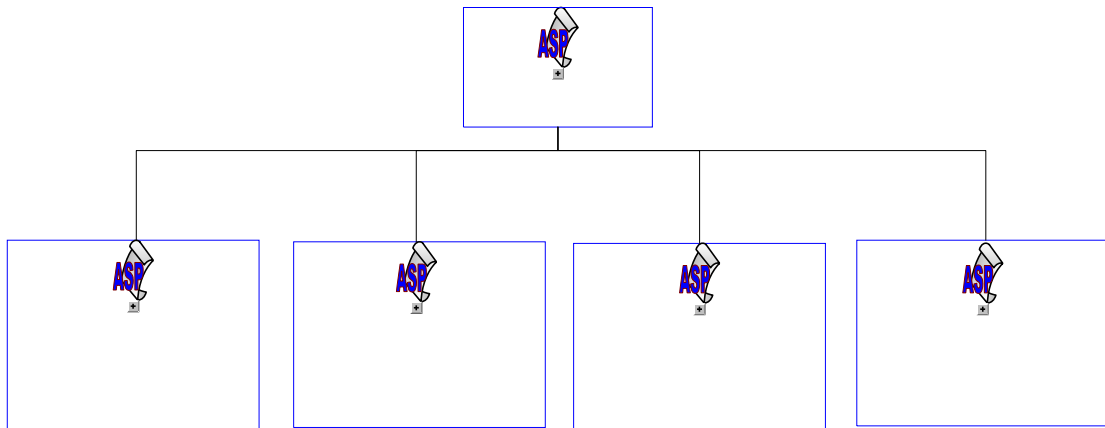
系统用户分为两种：1、系统管理员，用户名（或者称为学号）固定为 10000，初始密码及授权密码都为 admit；2、学生用户，可以动态注册，不过需要使用系统管理员的授予密码才能注册，其密码使用 SHA1 加密。

系统运行流程（见下图）：



# 2、模块功能

本系统主要由四个模块组成。分别为：用户管理，考试模块，评分模块，试卷管理。



## 2、1 用户管理

主要负责新用户注册（reg.aspx），用户登录（login.aspx），密码修改（changePsw.aspx）。管理员只能有一个，不能添加删除，新用户的注册需要管理员的授权密码。

## 2、2 考试模块

主要负责选择可用试卷进行考试 (selectPaper.aspx), 考试显示 (startPaper.aspx), 考卷的保存 (savePaper.aspx)。试卷只能在试卷时间之内能才可以选择以进行考试。考生的答卷保存在以下路径: 试卷号\考生的学号.xml。

## 2、3 评分模块

主要负责自动评分 (Mark.aspx), 人工评分 (manulMark.aspx), 评分保存 (saveMark.aspx)。在 Mark.aspx 中可以选择进行自动评分或者人工评分, 如果选择人工评分则转向 manulMark.aspx 页面。

## 2、4 试卷管理

主要负责试卷生成 (createPaper.aspx), 设置考试试卷 (setPaper.aspx), 查看评改后的试卷 (viewPaper.aspx)。试卷保存在以下路径: paper\试卷号.xml。

# 3、数据库与XML说明

## 3、1 数据库说明:

### 3、1、1 数据库名称: exam

表: t{t\_id,t\_name,t\_psw,t\_a\_psw}: 管理员信息表

t\_id: 管理员编号, 字符, 必填字段, 非空

t\_name: 管理员名称, 字符, 必填字段, 非空

t\_psw: 管理员密码, 字符, 没有加密, 必填字段, 非空

t\_a\_psw: 管理员授权密码, 字符, 没有加密, 必填字段, 非空

s{s\_id,s\_name,s\_psw}: 学生信息表

s\_id: 学号, 字符, 必填字段, 非空

s\_name: 学生姓名, 字符, 必填字段, 非空

s\_psw: 学生密码, 字符, 经 SHA1 加密, 必填字段, 非空

p{p\_id,p\_name,s\_time,l\_time}: 试卷信息表

p\_id: 试卷编号, 字符, 必填字段, 非空

p\_name: 试卷名称, 字符, 必填字段, 非空

s\_time: 考试开始时间, 日期, 必填字段, 非空

l\_time: 考试时间, 字符, 必填字段, 非空



## changPsw.aspx.vb

```
Imports System.Data
Imports System.Data.OleDb
Imports System.Web.Security

Public Class changePsw
    Inherits System.Web.UI.Page
    Protected WithEvents HyperLink1 As System.Web.UI.WebControls.HyperLink
    Protected WithEvents u_id As System.Web.UI.WebControls.TextBox
    Protected WithEvents psw As System.Web.UI.WebControls.TextBox
    Protected WithEvents c_psw As System.Web.UI.WebControls.TextBox
    Protected WithEvents a_psw As System.Web.UI.WebControls.TextBox
    Protected WithEvents submit As System.Web.UI.WebControls.Button
    Protected WithEvents ValidationSummary1 As System.Web.UI.WebControls.ValidationSummary
    Protected WithEvents s_id_check As System.Web.UI.WebControls.RequiredFieldValidator
    Protected WithEvents c_a_psw As System.Web.UI.WebControls.RequiredFieldValidator
    Protected WithEvents CompareValidator2 As System.Web.UI.WebControls.CompareValidator
    Protected WithEvents CompareValidator1 As System.Web.UI.WebControls.CompareValidator

    Private conn As OleDbConnection

    Private Sub Page_Load(ByVal sender As System.Object,
        ByVal e As System.EventArgs) Handles MyBase.Load
        '在此处放置初始化页的用户代码
        If (Session("s_id") Is Nothing) Or (Session("s_name")
            Is Nothing) Then
            Response.Redirect("index.aspx")
        End If
        If Session("s_id") = "10000" Then
            a_psw.Enabled = True
            c_a_psw.Enabled = True
        Else
            a_psw.Enabled = False
            c_a_psw.Enabled = False
        End If
        conn = New OleDbConnection("Provider=Microsoft.Jet.OLEDB.4.0;Data
            Source=" & Server.MapPath("exam.mdb"))
        u_id.Text = Session("s_id")
    End Sub

    Private Sub submit_Click(ByVal sender As System.Object,
        ByVal e As System.EventArgs) Handles submit.Click
        Dim strSql As String
        If Session("s_id") = "10000" Then
            If psw.Text <> "" And a_psw.Text <> "" Then
                strSql = "update t set t_psw=" & psw.Text &
                    ",t_a_psw=" & a_psw.Text & " where t_id=" & u_id.Text & ""
            End If
        End If
    End Sub
End Class
```

```
        If psw.Text = "" And a_psw.Text <> "" Then
            strSql = "update t set a_psw=" & a_psw.Text
                & " where t_id=" & u_id.Text & ""
        End If
        If psw.Text <> "" And a_psw.Text = "" Then
            strSql = "update t set t_psw=" & psw.Text &
                "" where t_id=" & u_id.Text & ""
        End If
        If psw.Text = "" And a_psw.Text = "" Then
            Response.Redirect("index.aspx")
        End If
    Else
        strSql = "update s set s_psw=" &
            FormsAuthentication.HashPasswordForStoringInConfigFile(psw.
                Text, "SHA1") & " where s_id=" & u_id.Text & ""
    End If

    Dim cmd As New OleDbCommand(strSql, conn)
    conn.Open()
    cmd.ExecuteNonQuery()
    conn.Close()
    Response.Redirect("index.aspx")
End Sub
End Class
```

## createPaper.aspx.vb

```
Imports System.Data

Public Class createPaper
    Inherits System.Web.UI.Page
    Protected WithEvents q_id As System.Web.UI.WebControls.TextBox
    Protected WithEvents q_ans As System.Web.UI.WebControls.TextBox
    Protected WithEvents q_main_content As System.Web.UI.WebControls.TextBox
    Protected WithEvents q_content As System.Web.UI.WebControls.TextBox
    Protected WithEvents submit As System.Web.UI.WebControls.Button
    Protected WithEvents pre_q_num As System.Web.UI.WebControls.Label
    Protected WithEvents ValidationSummary1 As System.Web.UI.WebControls.ValidationSummary
    Protected WithEvents RequiredFieldValidator1 As System.Web.UI.WebControls.RequiredFieldValidator
    Protected WithEvents paper_name As System.Web.UI.WebControls.TextBox
    Protected WithEvents RequiredFieldValidator2 As System.Web.UI.WebControls.RequiredFieldValidator
    Protected WithEvents q_mark As System.Web.UI.WebControls.TextBox
    Protected WithEvents HyperLink1 As System.Web.UI.WebControls.HyperLink
    Protected WithEvents create As System.Web.UI.WebControls.Button

    Public ds As DataSet
    Public dt As DataTable
    Public dc As DataColumn
End Class
```

```

Public dr As DataRow

Private Sub Page_Load(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles MyBase.Load
    '在此处放置初始化页的用户代码
    If (Session("s_id") Is Nothing) Or (Session("s_name")
Is Nothing) Then
        Response.Redirect("index.aspx")
    End If
    If Not Page.IsPostBack Then
        pre_q_num.Text = "0"
    End If

    '初始化操作，建立表的结构，此时表为空
    If Session("paper") Is Nothing Then
        dt = New DataTable()
        '下面开始建立 dt 表格中的第 0 列
        dc = New DataColumn()
'新建 1 列
        dc.DataType = System.Type.GetType("System.String") '定义类型
        dc.ColumnName = "q_id" '定义列的名称
        dt.Columns.Add(dc)
'将该列加到表 dt 中
        '建立第 1 列
        dc = New DataColumn()
        dc.DataType = System.Type.GetType("System.String")
        dc.ColumnName = "q_main_content"
        dt.Columns.Add(dc)
'建立第 2 列
        dc = New DataColumn()
        dc.DataType = System.Type.GetType("System.String")
        dc.ColumnName = "q_content"
        dt.Columns.Add(dc)
'建立第 3 列
        dc = New DataColumn()
        dc.DataType = System.Type.GetType("System.String")
        dc.ColumnName = "q_ans"
        dt.Columns.Add(dc)
'建立第四列
        dc = New DataColumn()
        dc.DataType = System.Type.GetType("System.String")
        dc.ColumnName = "q_mark"
        dt.Columns.Add(dc)
'建立主键
        Dim dcKey() As DataColumn = {dt.Columns("q_id")}
        dt.PrimaryKey = dcKey
        '下面将 dt 表填充到 DataSet 对象中,命名为 paper
        ds = New DataSet()
        ds.Tables.Add(dt)
'将表 dt 添加到 DataSet 中
        ds.Tables(0).TableName = "paper"
'将表 dt 命名为 link
        Session("paper") = ds
    End If

```

```

End Sub

Private Sub submit_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles submit.Click
    ds = Session("paper")
    '下面给该表格增加一行
    Dim Exp As Exception
    Try
        dt = ds.Tables("paper")
        dr = dt.NewRow()
'新建 1 行，注意和新建列的区别
        dr("q_id") = q_id.Text
'赋值
        dr("q_main_content") = q_main_content.Text
        dr("q_content") = q_content.Text
        dr("q_ans") = q_ans.Text
        dr("q_mark") = q_mark.Text
        dt.Rows.Add(dr)
'将该行加到表 dt 中
    Catch Exp
        Response.Write(Exp.ToString())
    End Try
    Session("paper") = ds
    pre_q_num.Text = Convert.ToInt16(pre_q_num.Text) + 1
    q_id.Text = ""
    q_main_content.Text = ""
    q_content.Text = ""
    q_ans.Text = ""
    q_mark.Text = ""
End Sub

Private Sub create_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles create.Click
    ds = Session("paper")
    '下面给该表格增加一行
    Dim Exp As Exception
    Try
        dt = ds.Tables("paper")
        dr = dt.NewRow()
'新建 1 行，注意和新建列的区别
        dr("q_id") = q_id.Text
'赋值
        dr("q_main_content") = q_main_content.Text
        dr("q_content") = q_content.Text
        dr("q_ans") = q_ans.Text
        dr("q_mark") = q_mark.Text
        dt.Rows.Add(dr)
'将该行加到表 dt 中
        ds.WriteXml(Server.MapPath("paper\" &
paper_name.Text & ".xml"), XmlWriteMode.WriteSchema) '写
入到 XML
    Catch Exp
        Response.Write(Exp.ToString())
    End Try
    Session.Abandon()
    'response.Redirect("index.aspx") '转移
End Sub
End Class

```

**index.aspx.vb**

```

Public Class index
    Inherits System.Web.UI.Page
    Protected WithEvents HyperLink1 As
System.Web.UI.WebControls.HyperLink
    Protected WithEvents HyperLink2 As
System.Web.UI.WebControls.HyperLink
    Protected WithEvents HyperLink3 As
System.Web.UI.WebControls.HyperLink
    Protected WithEvents msg As
System.Web.UI.WebControls.Label
    Protected WithEvents HyperLink5 As
System.Web.UI.WebControls.HyperLink
    Protected WithEvents HyperLink6 As
System.Web.UI.WebControls.HyperLink
    Protected WithEvents HyperLink7 As
System.Web.UI.WebControls.HyperLink
    Protected WithEvents HyperLink8 As
System.Web.UI.WebControls.HyperLink
    Protected WithEvents HyperLink4 As
System.Web.UI.WebControls.HyperLink

    Private Sub Page_Load(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles MyBase.Load
        '在此处放置初始化页的用户代码
        If (Not Session("s_id") Is Nothing) And (Not
Session("s_name") Is Nothing) Then
            If Session("s_id") = "10000" Then
                msg.Text = "管理员，你好！你已经登录。"
            Else
                msg.Text = Session("s_name") & "，你好！
你已经登录。<br>你的学号为： " & Session("s_id")
            End If
            HyperLink3.Visible = True
            HyperLink4.Visible = True
            HyperLink5.Visible = True
            HyperLink6.Visible = True
            HyperLink7.Visible = True
            HyperLink8.Visible = True
        Else
            msg.Text = "你未登录或者登录错误"
            HyperLink3.Visible = False
            HyperLink4.Visible = False
            HyperLink5.Visible = False
            HyperLink6.Visible = False
            HyperLink7.Visible = False
            HyperLink8.Visible = False
        End If
    End Sub
End Class

```

## **login.aspx.vb**

```

Imports System.Web.Security
Imports System.Data
Imports System.Data.OleDb

Public Class WebForm1
    Inherits System.Web.UI.Page
    Protected WithEvents Label1 As

```

```

System.Web.UI.WebControls.Label
    Protected WithEvents Label2 As
System.Web.UI.WebControls.Label
    Protected WithEvents Label3 As
System.Web.UI.WebControls.Label
    Protected WithEvents submit As
System.Web.UI.WebControls.Button
    Protected WithEvents Reset As
System.Web.UI.HtmlControls.HtmlInputButton
    Protected WithEvents HyperLink1 As
System.Web.UI.WebControls.HyperLink
    Protected WithEvents ValidationSummary1 As
System.Web.UI.WebControls.ValidationSummary
    Protected WithEvents RequiredFieldValidator2 As
System.Web.UI.WebControls.RequiredFieldValidator
    Protected WithEvents RequiredFieldValidator1 As
System.Web.UI.WebControls.RequiredFieldValidator
    Protected WithEvents s_id As
System.Web.UI.WebControls.TextBox
    Protected WithEvents s_psw As
System.Web.UI.WebControls.TextBox
    Protected WithEvents HyperLink2 As
System.Web.UI.WebControls.HyperLink

    Private conn As OleDbConnection

    Private Sub Page_Load(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles MyBase.Load
        '在此处放置初始化页的用户代码
        '初始化 conn 对象
        conn = New
OleDbConnection("Provider=Microsoft.Jet.OLEDB.4.0;Data
Source=" & Server.MapPath("exam.mdb"))
    End Sub

    Private Sub submit_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles submit.Click
        If s_id.Text <> "10000" Then
            Dim strSql, strHashPsw As String
            strHashPsw =
FormsAuthentication.HashPasswordForStoringInConfigFile(s_ps
w.Text, "SHA1")
            strSql = "select s_name,s_psw from s where
s_id=" & s_id.Text & ""
            Dim cmd As New OleDbCommand(strSql, conn)
            Dim Exp As Exception
            Dim dr As OleDbDataReader
            Try
                conn.Open()
                dr = cmd.ExecuteReader()

                dr.Read()
                If
FormsAuthentication.HashPasswordForStoringInConfigFile(s_ps
w.Text, "SHA1") = dr.Item("s_psw") Then
                    Session("s_id") = s_id.Text
                    Session("s_name") = dr.Item("s_name")
                    Response.Redirect("index.aspx") '转到
登录后的处理页面
                'Response.Write("已经成功登录")
            Else

```

```

        Response.Redirect("login.aspx")
    End If

    'Response.Redirect("login.aspx")
    conn.Close()
Catch Exp
    Response.Write(Exp.ToString())
End Try
Else
    Dim strSql As String
    strSql = "select t_name,t_psw from t where
t_id='10000'"
    Dim cmd As New OleDbCommand(strSql, conn)
    Dim Exp As Exception
    Dim dr As OleDbDataReader
    Try
        conn.Open()
        dr = cmd.ExecuteReader()
        dr.Read()
        If s_psw.Text = dr.Item("t_psw") Then
            Session("s_id") = s_id.Text
            Session("s_name") = dr.Item("t_name")
            Response.Redirect("index.aspx") '转到
登录后的处理页面
        Else
            Response.Redirect("login.aspx")
        End If

        conn.Close()
    Catch Exp
        Response.Write(Exp.ToString())
    End Try
End If
End Sub
End Class

```

## manulMark.aspx.vb

```

Imports System.IO
Imports System.Data
Imports System.Data.OleDb

Public Class manulMark
    Inherits System.Web.UI.Page
    Protected WithEvents msg As
System.Web.UI.WebControls.Label

    Public ds As DataSet
    Public dt As DataTable
    Public dc As DataColumn
    Protected WithEvents HyperLink1 As
System.Web.UI.WebControls.HyperLink
    Public dr As DataRow

    Private Sub Page_Load(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles MyBase.Load
        '在此处放置初始化页的用户代码
        If (Session("s_id") <> "10000") Or (Session("s_name")
<> "admit") Then
            Response.Redirect("index.aspx")

```

```

End If

Dim p_id, s_id, strFile As String
Dim r_num, i As Integer

s_id = Request.QueryString("s_id")
p_id = Request.QueryString("p_id")
If s_id Is Nothing Or p_id Is Nothing Then
    Response.Redirect("index.aspx")
End If
strFile = Server.MapPath(p_id & "\" & s_id & ".xml")

If File.Exists(strFile) Then
    ds = New DataSet()
    ds.ReadXml(strFile)
    dt = ds.Tables("paper")
    r_num = dt.Rows.Count

    '进行试卷显示和接受评分的输入
    r_num = dt.Rows.Count
    msg.Text &= "<FORM name=""paper""
METHOD=POST ACTION=""saveMark.aspx"">"
    For i = 0 To r_num - 1
        dr = dt.Rows(i)
        msg.Text &= "题号: " & dr.Item("q_id") &
"&nbsp;分值: " & dr.Item("q_mark") & "<br>"
        msg.Text &= " 题目主体 : " &
dr.Item("q_main_content") & "<br>"
        msg.Text &= " 题目内容 : " &
dr.Item("q_content") & "<br>"
        msg.Text &= " 考生答案 : " &
dr.Item("q_s_ans") & "<br>"
        msg.Text &= " 参考答案 : " &
dr.Item("q_ans") & "<br>"
        msg.Text &= " 目前得分 : " &
dr.Item("q_s_mark") & "<br>"
        msg.Text &= "评分: <INPUT TYPE=""text""
NAME="" & dr.Item("q_id") & "_mark""><br><br>"
    Next
    msg.Text &= "<INPUT TYPE=""hidden""
name=""s_id"" value="" & s_id & """"><INPUT
TYPE=""hidden"" name=""p_id"" value="" & p_id &
""><INPUT value="" 保存并返回 ""
TYPE=""submit""></FORM>"
    End If
End Sub
End Class

```

## Mark.aspx.vb

```

Imports System.Data
Imports System.IO

Public Class Mark
    Inherits System.Web.UI.Page
    Protected WithEvents autoMark As
System.Web.UI.WebControls.Button
    Protected WithEvents s_id As
System.Web.UI.WebControls.TextBox
    Protected WithEvents msg As

```

```

System.Web.UI.WebControls.Label
    Protected      WithEvents      HyperLink1      As
System.Web.UI.WebControls.HyperLink
    Protected      WithEvents      manulMark        As
System.Web.UI.WebControls.Button
    Protected      WithEvents      HyperLink2        As
System.Web.UI.WebControls.HyperLink
    Protected      WithEvents      p_id              As
System.Web.UI.WebControls.TextBox

    Private Sub Page_Load(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles MyBase.Load
        '在此处放置初始化页的用户代码
        If (Session("s_id") Is Nothing) Or (Session("s_name")
Is Nothing) Then
            Response.Redirect("index.aspx")
        End If
    End Sub

    Private Sub autoMark_Click(ByVal sender As
System.Object, ByVal e As System.EventArgs) Handles
autoMark.Click
        Dim ds As New DataSet()
        Dim dt As DataTable
        Dim dr As DataRow
        Dim dc As DataColumn
        Dim r_num, i, mark As Integer
        Dim strFile As String = Server.MapPath(p_id.Text &
"\ & s_id.Text & ".xml")
        If File.Exists(strFile) Then

            ds.ReadXml(strFile)
            dt = ds.Tables("paper")

            r_num = dt.Rows.Count
            mark = 0
            For i = 0 To r_num - 1
                dr = dt.Rows(i)
                If dr.Item("q_ans") = dr.Item("q_s_ans")
Then
                    dr("q_s_mark") = dr.Item("q_mark")
                Else
                    dr("q_s_mark") = "0"
                End If
                mark += Convert.ToInt16(dr("q_s_mark"))
            Next

            dt = ds.Tables("mark")
            dr = dt.Rows(0)
            dr("mark") = mark

            ds.WriteXml(strFile,
XmlWriteMode.WriteSchema)
            msg.Text = "自动评分完成"

        Else
            msg.Text = "错误的参数"
        End If
    End Sub

    Private Sub manulMark_Click(ByVal sender As

```

```

System.Object, ByVal e As System.EventArgs) Handles
manulMark.Click
        Dim strFile As String = Server.MapPath(p_id.Text &
"\ & s_id.Text & ".xml")
        If File.Exists(strFile) Then
            Response.Redirect("manulMark.aspx?p_id=" &
p_id.Text & "&s_id=" & s_id.Text)
        Else
            msg.Text = "错误的参数"
        End If
    End Sub
End Class

```

## reg.aspx.vb

```

Imports System.Web.Security
Imports System.Data
Imports System.Data.OleDb

Public Class reg
    Inherits System.Web.UI.Page
        Protected      WithEvents      ValidationSummary1      As
System.Web.UI.WebControls.ValidationSummary
        Protected      WithEvents      CompareValidator1        As
System.Web.UI.WebControls.CompareValidator
        Protected      WithEvents      u_name_check            As
System.Web.UI.WebControls.RequiredFieldValidator
        Protected      WithEvents      RequiredFieldValidator1  As
System.Web.UI.WebControls.RequiredFieldValidator
        Protected      WithEvents      RequiredFieldValidator2  As
System.Web.UI.WebControls.RequiredFieldValidator
        Protected      WithEvents      u_id                    As
System.Web.UI.WebControls.TextBox
        Protected      WithEvents      s_id_check              As
System.Web.UI.WebControls.RequiredFieldValidator
        Protected      WithEvents      a_psw                    As
System.Web.UI.WebControls.TextBox
        Protected      WithEvents      u_name                    As
System.Web.UI.WebControls.TextBox
        Protected      WithEvents      psw                      As
System.Web.UI.WebControls.TextBox
        Protected      WithEvents      c_psw                    As
System.Web.UI.WebControls.TextBox
        Protected      WithEvents      submit                    As
System.Web.UI.WebControls.Button
        Protected      WithEvents      HyperLink2                As
System.Web.UI.WebControls.HyperLink

        Private conn As OleDbConnection

        Private Sub Page_Load(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles MyBase.Load
            '在此处放置初始化页的用户代码
            '初始化 conn 对象
            conn = New
OleDbConnection("Provider=Microsoft.Jet.OLEDB.4.0;Data
Source=" & Server.MapPath("exam.mdb"))
        End Sub

        Private Sub submit_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles submit.Click

```

```

Dim strHashPsw, strA_psw As String
Dim dr As OleDbDataReader
Dim cmd As New OleDbCommand()
Dim Exp As Exception
strHashPsw =
FormsAuthentication.HashPasswordForStoringInConfigFile(psw.
Text, "SHA1")
cmd.Connection = conn
cmd.CommandText = "select t_a_psw from t where
t_id='10000'"
Try
conn.Open()
dr = cmd.ExecuteReader()
dr.Read()
If dr.Item("t_a_psw") = a_psw.Text Then
cmd.CommandText = "Insert Into s
(s_id,s_name,s_psw) Values('" & u_id.Text & "','" &
u_name.Text & "','" & strHashPsw & "')"
dr.Close()
cmd.ExecuteNonQuery()
Response.Redirect("login.aspx")
Else
'MsgBox("授权失败, 请重新注册。")
Response.Redirect("reg.aspx")
End If
conn.Close()
Catch Exp
Response.Write(Exp.ToString())
End Try
End Sub

```

End Class

### saveMark.aspx.vb

```

Imports System.IO
Imports System.Data
Imports System.Data.OleDb

Public Class saveMark
Inherits System.Web.UI.Page
Protected WithEvents msg As
System.Web.UI.WebControls.Label

Public ds As DataSet
Public dt As DataTable
Public dc As DataColumn
Public dr As DataRow

Private Sub Page_Load(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles MyBase.Load
'在此处放置初始化页的用户代码
Dim p_id, s_id, strFile As String
Dim r_num, i, mark As Integer
s_id = Request.Form.Get("s_id")
p_id = Request.Form.Get("p_id")
strFile = Server.MapPath(p_id & "\" & s_id & ".xml")

If File.Exists(strFile) And (Not s_id Is Nothing) And
(Not p_id Is Nothing) And Session("s_id") = "10000" And
Session("s_name") = "admit" Then

```

```

ds = New DataSet()
ds.ReadXml(strFile)
dt = ds.Tables("paper")
r_num = dt.Rows.Count

mark = 0
For i = 0 To r_num - 1
dr = dt.Rows(i)
dr("q_s_mark") =
Request.Form.Get(dr.Item("q_id") & "_mark")
mark += Convert.ToInt16(dr("q_s_mark"))
Next
dt = ds.Tables("mark")
dr = dt.Rows(0)
dr("mark") = mark

ds.WriteXml(strFile,
XmlWriteMode.WriteSchema)
End If
Response.Redirect("Mark.aspx")
End Sub

End Class

```

### savePaper.aspx.vb

```

Imports System.IO
Imports System.Data
Imports System.Data.OleDb

Public Class savePaper
Inherits System.Web.UI.Page
Protected WithEvents msg As
System.Web.UI.WebControls.Label

Public ds As DataSet
Public dt As DataTable
Public dc As DataColumn
Public dr As DataRow

Private Sub Page_Load(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles MyBase.Load
'在此处放置初始化页的用户代码
If (Session("s_id") Is Nothing) Or (Session("s_name")
Is Nothing) Then
Response.Redirect("index.aspx")
End If
msg.Text = "正在保存答案……"

Dim p_id, s_id, strTemp As String
Dim r_num, i As Integer

s_id = Session("s_id")
p_id = Request.Form.Get("p_id")
If s_id Is Nothing Or p_id Is Nothing Then
Response.Redirect("index.aspx")
End If

Dim conn As New
OleDbConnection("Provider=Microsoft.Jet.OLEDB.4.0;Data

```

```

Source=" & Server.MapPath("exam.mdb")
    Dim cmd As New OleDbCommand("select * from p
where p_id=" & p_id & "'", conn)
    Dim datareader As OleDbDataReader
    ds = New DataSet()

    conn.Open()

    datareader = cmd.ExecuteReader
    datareader.Read()
    strTemp = Server.MapPath("paper\" &
datareader.Item("p_name") & ".xml")
    ds.ReadXml(strTemp)
    dt = ds.Tables("paper")
    r_num = dt.Rows.Count

'添加一列，作为保存考生答案使用
dc = New DataColumn()
dc.DataType = System.Type.GetType("System.String")
dc.ColumnName = "q_s_ans"
dt.Columns.Add(dc)

'添加一列，作为考生各题得分用
dc = New DataColumn()
dc.DataType = System.Type.GetType("System.String")
dc.ColumnName = "q_s_mark"
dt.Columns.Add(dc)

For i = 0 To r_num - 1
    dr = dt.Rows(i)
    dr("q_s_ans") = Request.Form.Get(dr.Item("q_id")
& "_ans")
    dr("q_s_mark") = 0
Next

dt = New DataTable()
'新建一个表
dc = New DataColumn()
'新建 1 列
dc.DataType = System.Type.GetType("System.String")
'定义类型
dc.ColumnName = "mark"
'定义列的名称
dt.Columns.Add(dc)
'将该列加到表 dt 中
ds.Tables.Add(dt)
ds.Tables(1).TableName = "mark"
Dim dcKey() As DataColumn = {dt.Columns("mark")}
'建立主键
dt.PrimaryKey = dcKey
dr = dt.NewRow()
'新建 1 行，注意和新建列的区别
dr("mark") = 0
dt.Rows.Add(dr)
'将新建的行加入到表中

Directory.CreateDirectory(Server.MapPath(p_id))
ds.WriteXml(Server.MapPath(p_id & "\" & s_id &
.xml"), XmlWriteMode.WriteSchema) '写入到 XML

conn.Close()

```

```

msg.Text = "已经完成考试，正在反正开始页面……"
Response.Redirect("index.aspx")
End Sub

```

End Class

## selectPaper.aspx.vb

```

Imports System.Data
Imports System.Data.OleDb

Public Class selectPaper1
    Inherits System.Web.UI.Page
    Protected WithEvents p_id As
System.Web.UI.WebControls.TextBox
    Protected WithEvents RequiredFieldValidator1 As
System.Web.UI.WebControls.RequiredFieldValidator
    Protected WithEvents p_name As
System.Web.UI.WebControls.TextBox
    Protected WithEvents s_time As
System.Web.UI.WebControls.TextBox
    Protected WithEvents l_time As
System.Web.UI.WebControls.TextBox
    Protected WithEvents submit As
System.Web.UI.WebControls.Button
    Protected WithEvents ValidationSummary1 As
System.Web.UI.WebControls.ValidationSummary
    Protected WithEvents RegularExpressionValidator1 As
System.Web.UI.WebControls.RegularExpressionValidator
    Protected WithEvents HyperLink1 As
System.Web.UI.WebControls.HyperLink
    Protected WithEvents msg As
System.Web.UI.WebControls.Label

    Private Sub Page_Load(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles MyBase.Load
        '在此处放置初始化页的用户代码()
        If (Session("s_id") Is Nothing) Or (Session("s_name")
Is Nothing) Then
            Response.Redirect("index.aspx")
        End If
        Dim conn As New
OleDbConnection("Provider=Microsoft.Jet.OLEDB.4.0;Data
Source=" & Server.MapPath("exam.mdb"))
        Dim cmd As New OleDbCommand("select * from p",
conn)
        Dim dr As OleDbDataReader
        Dim Exp As Exception
        Dim date1, date2 As DateTime
        Try
            conn.Open()
            dr = cmd.ExecuteReader
            While (dr.Read())
                date1 =
Convert.ToDateTime(dr.Item("s_time"))
                date2 =
date1.AddMinutes(Convert.ToInt16(dr.Item("l_time")))
                If Now() >= date1 And Now() <= date2 Then
                    msg.Text &= "<a
href='startPaper.aspx?p_id=" & dr.Item("p_id") & "'>试卷编号:

```

```

" & dr.Item("p_id") & "</a><br>"
    End If
    End While
    conn.Close()
Catch Exp
    Response.Write(Exp.ToString())
End Try
If msg.Text Is Nothing Then
    msg.Text = "当前没有可用试卷"
End If
End Sub

End Class

```

## setPaper.aspx.vb

```

Imports System.Data
Imports System.Data.OleDb

Public Class setPaper
    Inherits System.Web.UI.Page
    Protected WithEvents p_id As
System.Web.UI.WebControls.TextBox
    Protected WithEvents p_name As
System.Web.UI.WebControls.TextBox
    Protected WithEvents submit As
System.Web.UI.WebControls.Button
    Protected WithEvents l_time As
System.Web.UI.WebControls.TextBox
    Protected WithEvents s_time As
System.Web.UI.WebControls.TextBox
    Protected WithEvents ValidationSummary1 As
System.Web.UI.WebControls.ValidationSummary
    Protected WithEvents RequiredFieldValidator1 As
System.Web.UI.WebControls.RequiredFieldValidator
    Protected WithEvents RegularExpressionValidator1 As
System.Web.UI.WebControls.RegularExpressionValidator
    Protected WithEvents HyperLink1 As
System.Web.UI.WebControls.HyperLink

    Private conn As OleDbConnection

    Private Sub Page_Load(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles MyBase.Load
        '在此处放置初始化页的用户代码
        If (Session("s_id") Is Nothing) Or (Session("s_name")
Is Nothing) Then
            Response.Redirect("index.aspx")
        End If
        If (Session("s_id") <> "10000") And
(Session("s_name") <> "admit") Then
            Response.Redirect("index.aspx")
        End If
        conn = New
OleDbConnection("Provider=Microsoft.Jet.OLEDB.4.0;Data
Source=" & Server.MapPath("exam.mdb"))
    End Sub

    Private Sub submit_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles submit.Click
        Dim dr As OleDbDataReader

```

```

Dim cmd As New OleDbCommand()
Dim Exp As Exception
cmd.Connection = conn
cmd.CommandText = "insert into p
(p_id,p_name,s_time,l_time) values(" & p_id.Text & "," &
p_name.Text & ",#" & s_time.Text & "#," & l_time.Text & ")"
Try
    conn.Open()
    cmd.ExecuteNonQuery()
    conn.Close()
Catch Exp
    Response.Write(Exp.ToString())
End Try
Response.Redirect("index.aspx")
End Sub

Private Sub InitializeComponent()

End Sub
End Class

```

## startPaper.aspx.vb

```

Imports System.Data
Imports System.Data.OleDb

Public Class startPaper
    Inherits System.Web.UI.Page
    Protected WithEvents msg As
System.Web.UI.WebControls.Label

    Public ds As DataSet
    Public dt As DataTable
    Protected WithEvents HyperLink1 As
System.Web.UI.WebControls.HyperLink
    Public dr As DataRow

    Private Sub Page_Load(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles MyBase.Load
        '在此处放置初始化页的用户代码
        If (Session("s_id") Is Nothing) Or (Session("s_name")
Is Nothing) Then
            Response.Redirect("index.aspx")
        End If
        Dim p_id As String = Request.QueryString("p_id")
        Dim strTemp As String
        If p_id Is Nothing Then
            Response.Redirect("index.aspx")
        End If
        Dim conn As New
OleDbConnection("Provider=Microsoft.Jet.OLEDB.4.0;Data
Source=" & Server.MapPath("exam.mdb"))
        Dim cmd As New OleDbCommand("select * from p
where p_id=" & p_id & """, conn)
        Dim datareader As OleDbDataReader

        ds = New DataSet()
        conn.Open()
        datareader = cmd.ExecuteReader
        datareader.Read()
        strTemp = Server.MapPath("paper\" &

```

```

datareader.Item("p_name") & ".xml")
    ds.ReadXml(strTemp)
    dt = ds.Tables("paper")
    '进行试卷显示
    Dim r_num, i As Integer
    r_num = dt.Rows.Count
    msg.Text &= "<FORM name=""paper""
METHOD=POST ACTION=""savePaper.aspx"">"
    For i = 0 To r_num - 1
        dr = dt.Rows(i)
        msg.Text &= "题号: " & dr.Item("q_id") &
"&nbsp;分值: " & dr.Item("q_mark") & "<br>"
        msg.Text &= "题目主体: " &
dr.Item("q_main_content") & "<br>"
        msg.Text &= "题目内容: " & dr.Item("q_content")
& "<br>"
        msg.Text &= "作答: <INPUT TYPE=""text""
NAME="" & dr.Item("q_id") & "_ans""><br>"
        Next
        msg.Text &= "<INPUT TYPE=""hidden""
name=""p_id"" value="" & p_id & """"><INPUT value=""交卷
"" TYPE=""submit""></FORM>"

    conn.Close()
End Sub

Private Sub submit_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles submit.Click
    End Sub
End Class

```

## viewPaper.aspx.vb

```

Imports System.IO
Imports System.Data

Public Class viewPaper
    Inherits System.Web.UI.Page
    Protected WithEvents submit As
System.Web.UI.WebControls.Button
    Protected WithEvents p_id As
System.Web.UI.WebControls.TextBox
    Protected WithEvents s_id As
System.Web.UI.WebControls.TextBox
    Protected WithEvents msg As
System.Web.UI.WebControls.Label
    Protected WithEvents HyperLink1 As
System.Web.UI.WebControls.HyperLink
    Protected WithEvents MyDataList As
System.Web.UI.WebControls.DataList

    Private Sub Page_Load(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles MyBase.Load
        '在此处放置初始化页的用户代码
        If (Session("s_id") Is Nothing) Or (Session("s_name")
Is Nothing) Then
            Response.Redirect("index.aspx")
        Else
            If Session("s_id") <> "10000" Then
                s_id.Text = Session("s_id")
            End If

```

```

End If
End Sub

Private Sub submit_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles submit.Click
    Dim ds As New DataSet()
    If Session("s_id") = s_id.Text Or Session("s_id") =
"10000" Then
        If Session("s_id") <> "10000" Then
            s_id.ReadOnly = True
        Else
            s_id.ReadOnly = False
        End If
        If File.Exists(Server.MapPath(p_id.Text & "\" &
s_id.Text & ".xml")) Then
            ds.ReadXml(Server.MapPath(p_id.Text & "\"
& s_id.Text & ".xml"))
            MyDataList.DataSource = ds
            MyDataList.DataBind()
            MyDataList.Visible = True
            msg.Text = "试卷总分: " &
ds.Tables("mark").Rows(0).Item("mark")
        Else
            MyDataList.Visible = False
            msg.Text = "错误的参数"
        End If
    Else
        MyDataList.Visible = False
        msg.Text = "授权错误"
    End If
End Sub
End Class

```