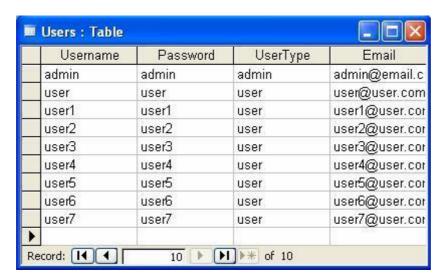
### **Lab 6: Form Authentication**

#### **Authentication**

§ Authentication is the process of obtaining identification credentials such as name and password from a user and validating those credentials against some authority.

- § If the credentials are valid, the entity that submitted the credentials is considered an authenticated identity.
- § Once an identity has been authenticated, the authorization process determines whether that identity has access to a given resource.
- § These tutorial consisting 3 parts:
  - 1. Creating a Login Page
  - 2. Creating a Members Only Page
  - 3. Creating a Admin Only Page
- § Here is the table used to perform the user authentication.



# Creating a Login Page

§ In this example, we are going to use the Users table from the Auth database.

#### Follow these steps:

- 1. Create a new Web Form and call the Login.aspx.
- 2. Switch to Design view, then open the Standard section of the toolbox and drag a 2 TextBox, 1 Label and 1 Button controls over to the page.
- 3. Open the Data section of the toolbox and drag a SqlDataSource control over to the page.
- 4. Click Configure Data Source in the Smart Tag menu. In the Configure Data Source Wizard, choose the database Auth.
- 5. Click **Next** in the Configure Data Source Wizard. The page that opens allows you to choose a table.
- 6. Select the Users table and click the \* in the Columns.

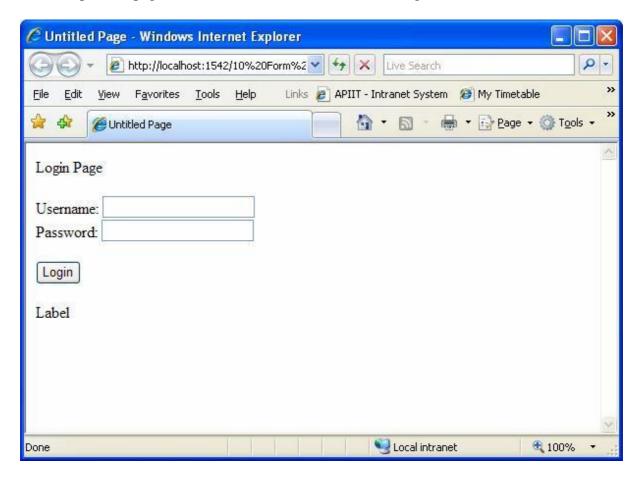
7. Click Next to test out the query. You will see a table that shows the rows from the table.

Login Page	
Username: Password:	
Login	
Label	

3. Double click the Login button and enter the following statements.

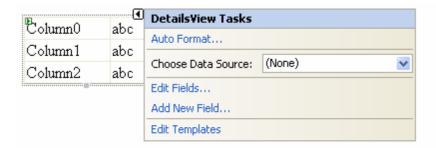
```
protected void Button1_Click(object sender, EventArgs e)
         SqlConnection con = new
SqlConnection(ConfigurationManager.ConnectionStrings["LoginConnectionString"].Connection
String);
         con.Open();
SqlCommand cmd = new SqlCommand("select count(*) from Users where Username = '"
+ TextBox1.Text + "' and Password = '" +TextBox2.Text+"'", con);
         int count = Convert.ToInt32(cmd.ExecuteScalar().ToString());
         if (count > 0)
            SalCommand cmdType = new SalCommand("select UserType from Users where
'" + TextBox1.Text + "'", con);
             string type = cmdType.ExecuteScalar().ToString().Replace(" ", "");
             Session["UserType"] = type;
             if (type == "admin")
                  Response.Redirect("AdminOnlyPage.aspx");
             else if (type == "user")
                  Response.Redirect("MemberOnlyPage.aspx");
        else
{
             this.Label3.ForeColor = System.Drawing.Color.Red;
             this.Label3.Text = "Login Failed!";
             ceturn;
         con.Close();
```

4. Open this page in the Web browser; it will look like figure below.



## **Creating a Members Only Page**

- 1. Create a new Web Form and call the MembersOnlyPage.aspx.
- 2. Switch to Design view, then open the Data section of the toolbox and drag a SqlDataSource control over to the page.
- 3. Click Configure Data Source in the Smart Tag menu. This summons the familiar Configure Data Source Wizard dialog box.
- 4. In the Configure Data Source Wizard, choose LoginConnectionString.
- 5. Click **Next** in the Configure Data Source Wizard. The page that opens allows you to choose a table.
- 6. Select the Users table and click the \* in the Columns.
- 7. Click Next to test out the query. You will see a table that shows the rows from the table
- 8. Click Finish. Now the data source has been configured.
- 9. Drop a DetailView control on your form; expand its Smart Tag by clicking the little arrow in the upper-right corner, as shown in figure below.



- 10. Click the Choose Data Source drop-down list, and select SqlDataSource1, follow by checking the Enable Paging option only.
- 11. Double click the any blank space on the form button and enter the following statements for the page load event.

12. Drag a LinkButton control on the page. Double click the LinkButton and enter the following statements.

```
protected void LinkButton1_Click(object sender, EventArgs e)
{
    // Cancel the current session
    Session.Abandon();
    Response.Redirect("Login.aspx");
}
```

13. Open this page in the Web browser it will redirect to Login Page. Only successful login can view the page.

## **Creating an Admin Only Page**

- 1. Create a new Web Form and call the AdminOnlyPage.aspx.
- 2. Switch to Design view, then open the Data section of the toolbox and drag SqlDataSource control over to the page.
- 3. Click Configure Data Source in the Smart Tag menu. This summons the familiar Configure Data Source Wizard dialog box.
- 4. In the Configure Data Source Wizard, choose LoginConnectionString.
- 5. Click **Next** in the Configure Data Source Wizard. The page that opens allows you to choose a table.
- 6. Select the Users table and click the \* in the Columns. Finally, click Next to test out the query.
- 7. In the Test Query page, you can test the page if you would like by clicking the Test Query button.
- 8. Click Finish. Now the data source has been configured.
- 9. Drop a GridView control on your form; expand its Smart Tag by clicking the little arrow in the upper-right corner, as shown in figure below.



- 10. Click the Choose Data Source drop-down list, and select SqlDataSource1, follow by checking the Enable Paging option.
- 11. Double click the any blank space on the form button and enter the following statements for the page load event.

12. Drag a LinkButton control on the page. Double click the LinkButton and enter the following statements.

```
protected void LinkButton1_Click(object sender, EventArgs e)
{
    // Cancel the current session
    Session.Abandon();
    Response.Redirect("Login.aspx");
}
```

13. Open this page in the Web browser it will redirect to Login Page. Only successful login can view the page.