

```
using System;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Web.UI.HtmlControls;
using WebApplication2.DAL;
```

```
namespace WebApplication2
```

```
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected HtmlGenericControl loginDiv;
        protected HtmlGenericControl signupDiv;
```

```
        protected void Page_Load(object sender, EventArgs e)
        {
            if (!IsPostBack)
            {
                loginDiv.Style["display"] = "none";
                signupDiv.Style["display"] = "block";
            }
        }
```

```
        protected void btnLogin_Click(object sender, EventArgs e)
        {
            string email = loginEmail.Text.Trim();
            string password = loginPassword.Text.Trim();
            string role = loginRole.SelectedValue;
```

```
            myDAL dal = new myDAL();
            bool success = dal.ValidateUser(email, password, role);
```

```
            if (success)
            {
                int userId = dal.GetUserId(email, role);
                Session["UserID"] = userId;
                Session["UserEmail"] = email;
                Session["UserRole"] = role;
```

```

        if (role.Equals("manager", StringComparison.OrdinalIgnoreCase))
        {
            Response.Redirect("dashboardmanager.aspx");
        }
        else if (role.Equals("admin", StringComparison.OrdinalIgnoreCase))
        {
            Response.Redirect("admin.aspx");
        }
        else if (role.Equals("inspector", StringComparison.OrdinalIgnoreCase))
        {

            int inspectorId = dal.GetInspectorIdByEmail(email);
            Session["UserID"] = inspectorId; // now matches INSPECTION.Inspector_ID
            Session["UserEmail"] = email;
            Session["UserRole"] = role;

            Response.Redirect("inspector.aspx");
        }

        else
        {
            loginMessage.Text = "Unknown role.";
        }
    }
    else
    {
        loginMessage.Text = "Invalid credentials.";
    }
}

```

```

protected void btnSignup_Click(object sender, EventArgs e)
{
    string fname = firstName.Text;
    string lname = lastName.Text;
    string email = signupEmail.Text;
    string password = signupPassword.Text;
    string role = signupRole.SelectedValue;
}

```

```
myDAL dal = new myDAL();
bool success = dal.RegisterUser(fname, lname, email, password, role);
```

```
if (success)
{
    //
    if (role.Equals("inspector", StringComparison.OrdinalIgnoreCase))
    {
        dal.RegisterInspector(fname, lname, email);
    }
}
```

```
signupMessage.Text = "Signup successful! Please log in.";
```

```
loginEmail.Text = email;
loginPassword.Text = password;
loginRole.SelectedValue = role;
```

```
    ShowLogin(null, null);
}
else
{
    signupMessage.Text = "Signup failed. Try again.";
    ShowSignup(null, null);
}
}
```

```
protected void ShowLogin(object sender, EventArgs e)
{
    loginDiv.Style["display"] = "block";
    signupDiv.Style["display"] = "none";
}
```

```
protected void ShowSignup(object sender, EventArgs e)
{

```

```
    signupDiv.Style["display"] = "block";  
    loginDiv.Style["display"] = "none";  
}
```

```
protected void btnLogout_Click(object sender, EventArgs e)  
{  
    Session.Clear();  
    Session.Abandon();  
    Response.Redirect("login.aspx");  
}  
}  
}
```