

INFORMATION SYSTEM DESIGN / CAPSTONE PROJECT MIS 413
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Client Project #5
Enhancing your project for the client

Each Team Member should complete these takes independently, so that each person gains ‘coding’ and roles knowledge. **Please note the special instructions at the end when sending your email.**

A. Fix any errors from Mini Project #3, point values are deducted if not fixed.

B. Build a folder for each of your two major users, so you can segment who has permissions.

1. Create an admin folder in your website. Name it to be an abbreviation of your project as in csbRefAdmin, or navyAdmin.
2. Create a typical user folder in your website. Name it as in: csbRefUser or navyUser.
3. In your ‘user’ folder, add a default.aspx page using the master page as the template.

C. Update your Master Page (if necessary) to be more focused toward your client project.

1. Make sure the title of the client project is in the header
2. Place all team developers and their emails in the footer
3. Add any image to the header (if necessary)

D. Build a ‘person’ object.

1. Create a **person** class in the App_Code folder. Refer back to Helpful Hint 2.0.
2. Your object should have the following properties at a minimum: ID, First Name, Last Name, Email, plus other fields from your person table you feel appropriate to keep in memory.

E. Add a ‘default.aspx’ page (at root level) 2to your project to become your ‘sign in’ page.

1. If you already have a default page please see me. Make sure the default page uses the ‘master page’ for its template.
2. Build a table in the center of the page to ask:
 - a. User email address
 - b. User password (change the text mode property so it does not show the password as being typed)
 - c. Error check the above items for existence of something in the field, plus valid email
 - d. Submit button
3. Add a uiMessage label above the table to give the user any error messages should you not find the user in the database.
4. It should also have some message to tell the user to ‘sign in’
5. Modify your web.config file (the one at root level) for increased security as below (look for the authentication Windows tag and modify:

```
<authentication mode="Forms">  
<forms name=".ASPXCSBFAC"  
loginUrl="http://csbapp.csb.uncw.edu/events/default.aspx" protection="All"  
timeout="45"/>  
</authentication>
```

1.

F. Build a stored procedure for Login/Sign In

1. Create a xxxLogin (one per team).
2. This login should have two parameters (email and password)
3. It should return the ID, fn, ln, email and all other fields you need for your person object. However it should return nothing if the email and password combination is not correct.
4. Test your stored procedure before returning to ASP

G. Back on your default.aspx (under your submit button)

1. Write the code to execute your stored procedure you wrote in Section F. You should pass it two parameters. See Helpful Hint 4.0 (or copy the code from MP3), however you will change the cmd.ExecuteNonQuery command as shown in the coding below. Here is an idea of what this should do:
2. If no data is returned, then the email and password were not valid and give a user a clear message using the uiMessage label.
3. If correct,
 - a. move the user's information to the person object
 - b. save the person object to a session variable
 - c. set a 'cookie' on the user's machine
 - d. response.redirect("~/user/default.aspx") to the default page in the user folder.

The following will assist you in your login (under your submit button):

```
Dim dtrReader as sqlDataReader `this builds an object to retrieve data from SQL
Dim isFound as boolean = false
Dim u as new person
```

```
Dim dbConn As String =
ConfigurationManager.ConnectionStrings("sampleconnect").ConnectionString
Dim conn As New SqlConnection(dbConn)
`build a command line to indicate the name of your stored procedure
Dim cmd As New SqlCommand("uspLogin", conn)
cmd.CommandType = CommandType.StoredProcedure
`list any input parameters here (i.e. email, pwd)
cmd.Parameters.AddWithValue("@xxx", me.xxxx.text)
... add more parameters to match the exact number of @'s in your SP
```

Try

```
`make sure the database connection is open
If conn.State = ConnectionState.Closed Then conn.Open()
`return a row (or rows of data) into a data reader object
dtrReader = cmd.ExecuteReader

`now check if there was any data returned
If dtrReader.HasRows then
    isFound = true
    dtrReader.Read
    u = new person (dtrReader("personID"), dtrReader("... Repeat for each)
Session("person") = u `moves the person object to memory
FormsAuthentication.RedirectFromLoginPage(u.ID, False) `sets cookie
```

```

Else
    Me.uiMessage.text = "xxxx give the user a message"
End if

Catch ex As Exception
    Me.uiMessage.text = "err on login stored procedure " & Err.Description
Finally
    conn.Close()
End Try

If isFound then
    Response.redirect("~/user/default.aspx")
End if

```

H. Place the user’s name on the user/default.aspx (note this is your user folder) page.

1. Place a label (uiName) in the center of the page
2. Retrieve the session variable (look at MP2Results) and place a “Welcome: xxx their name” into this uiName label.

I. Block users who have not logged into the system properly from accessing the files in the user folder.

1. Right click on your **user** folder and add a new item
2. Select a web.configuration file.
3. This file will act as a blocker for those individuals who do not log into the system properly. Add the following code into the system.web area of the web config file you just created:

```

<system.web>
    <authorization>
        <deny users="?" />
    </authorization>
</system.web>

```

4. Do the same in the admin folder.

J. Send an email when your project is ready for grading with the following information

1. Subject line should be: Project #5 ready for grading
2. Your name should be in the email
3. A link to your default.aspx page should be in the email (test it!)
4. **A valid user email and valid user password must be in the email so I can test it without opening your database.**

Client Project #5 Grading 100 Points Max

	Comments appear in aspx.vb file as appropriate (at least one per sub or function) and at the top of each vb page– deduction if not done! Your NAME appears in comments on all pages
	Items corrected from Mini Project #3 (deductions if not)
	Email contains working link (deduction if not) and with ID

	information
	Appearance of pages
	Title tags all pages (per page)
5	Master page used on all pages and includes some client info

Stored Procedures

15	Login Stored Procedure created/works
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Person Object/Class

10	Person object created with at minimum fields desired
5	Two 'sub news' created

Folders/Web Config

5	Web Config added with 'deny property'
5	Non valid users are blocked
5	2 new folders added

Login Page and User/Default.aspx page

10	Submit Button
5	Invalid Email/Pwd given message
5	Error checking on email/password
10	Valid Users session variable built and saved (using sub new)
5	ASP.Net authentication set
5	Redirected to proper page
10	Welcome message with user name appears