COMP 3111: Software Engineering

Lab Activity: Developing ASP.NET Applications
Construct the *HKeInvest* Client Registration Page

LAB OBJECTIVE

The **HKeInvest** application requires that a client create a login account in order to access the web-based securities portfolio management system. In this lab activity you will construct a web page, as shown in Figure 1, that will allow a client to register for a new login account.
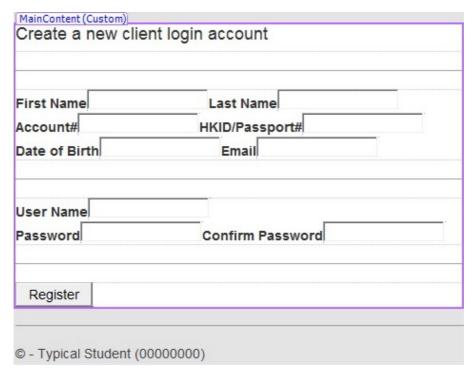

Figure 1: Web form layout for **HKeInvest** client login account registration page.

CREATE THE WEB SITE

1. Start Visual Studio 2015 and create a new web application called "HKeInvestWebApplication" either in your personal "Document" directory or on the Desktop[1].

EDIT THE MASTER PAGE

1. In the `Solution Explorer`, double-click the "Site.Master" node to open it in the `Document` window.
2. In the Source view of the Site.Master master page, do the following.
   a. Find the `<title>` tag and change the text "My ASP.NET Application" to "HKeInvest LLC".
   b. Find the text "My application" and change it to "HKeInvest LLC" as shown in Figure 1.
   c. Find the text "My ASP.NET Application" enclosed by the `<footer>` tag and change it to - "***your-full-name*** (***your-student-number***)".

   IMPORTANT: You must replace the text ***your-full-name*** with your own name and the text ***your-student-number*** with your own student number to get the credit for this lab (see Figure 3).

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[1] Visual Studio 2015 does not allow you to run an ASP.NET web application from the "M" drive. Therefore, you should create your web application on the local drive. However, as CS System may "clean up" the directories on the lab computers from time to time, you should backup your web application folder to the "M" drive or to a USB drive.

Table 1: Properties of the controls in the RegistrationPage.aspx web form.

<div> element	Control	Property	Value
1	Label	ID	
		AssociatedControlID	FirstName
		Text	First Name
	TextBox	ID	FirstName
	Label	ID	
		AssociatedControlID	LastName
		Text	Last Name
	TextBox	ID	LastName
2	Label	ID	
		AssociatedControlID	AccountNumber
		Text	Account #
	TextBox	ID	AccountNumber
	Label	ID	
		AssociatedControlID	HKID
		Text	HKID/Passport#
	TextBox	ID	HKID
3	Label	ID	
		AssociatedControlID	DateOfBirth
		Text	Date of Birth
	TextBox	ID	DateOfBirth
	Label	ID	
		AssociatedControlID	Email
		Text	Email
	TextBox	ID	Email
		TextMode	Email
4	Label	ID	
		AssociatedControlID	UserName
		Text	User Name
	TextBox	ID	UserName
5	Label	ID	
		AssociatedControlID	Password
		Text	Password
	TextBox	ID	Password
		TextMode	Password
6	Label	ID	
		AssociatedControlID	ConfirmPassword
		Text	Confirm Password
	TextBox	ID	ConfirmPassword
		TextMode	Password
7	Button	ID	Register
		Text	Register

CONSTRUCT THE CLIENT REGISTRATION PAGE

1. In the Solution Explorer, create a new web form and name it "RegistrationPage.aspx".
   <mark>IMPORTANT:</mark> Be sure that you select "Web Form with Master Page" in the `Add New Item` window.

2. Click inside the ContentPlaceHolder control of the "RegistrationPage.aspx" web form and do the following.
   a. Enter the text "Create a new login account" on the first line, select the text and then select "Heading 4 <h4>" from the dropdown list in the Formatting toolbar.

    b.   Add eight `<div></div>` tags below the heading, one outer one and seven inside the outer one[2].

    c.   Add the controls shown in Figure 1 inside the inner `<div>` tags and set their properties as given in Table 1[3]. Do not spend a lot of time trying to get a nice looking layout. You can work on this _after_ the lab.

> **IMPORTANT:**   Be sure to set the ID property of all of the controls _exactly_ as specified in Table 1 or errors may arise in future labs.

TEST THE WEB FORM

For this activity you do not need to create a login account for a client. Therefore, save your work and select "Start Debugging" from the Debug menu. Your web form should display in a browser as shown in Figure 2.
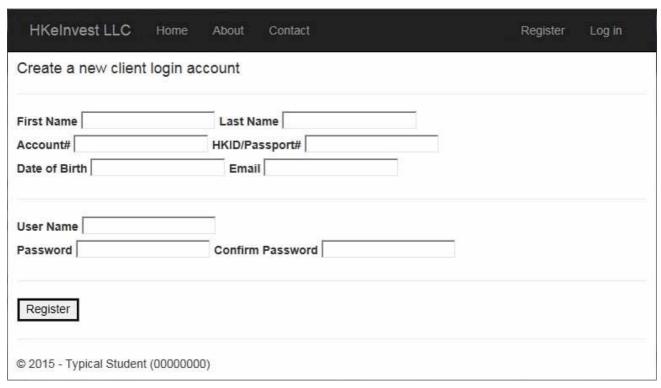

Figure 2: Client login account registration page displayed in a browser.

HOW TO GET THE CREDIT FOR THIS LAB

Part 1: During the Lab Session

To get half the credit for this lab, you must submit, <u>by the end of the lab period</u>, a printout of the client login account registration page, displayed in a browser, showing the following.

- Your email address in the Email Address textbox.
- Your name in the First Name and Last Name textboxes.
- Your name and student number in the footer of the registration page.

An example of such a printout is shown in Figure 3.

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2   See page 8 and Figure 9 of the Lab and Tutorial notes for how to do this.
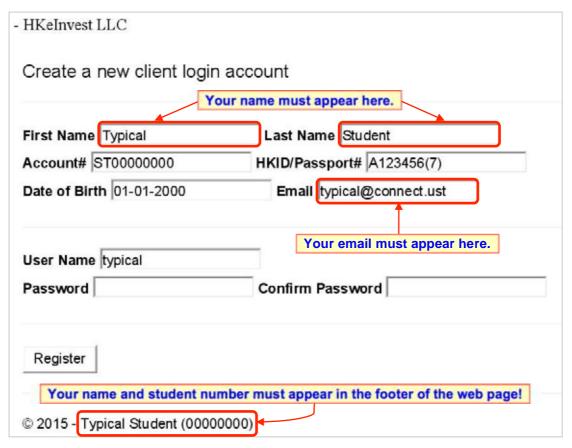3   You also should set the Wrap property for all TextBox controls to "False".

Figure 3: Example printout of student registration page.

Part 2: After the Lab Session

To get the remaining credit for this lab you must style your web page using Bootstrap. See the Tutorial and Lab Notes for how to do this. You will be required to demonstrate your Bootstrap-styled web page to the TA in next week's lab.