

CS2453: Visual Basic

VB9: Sales Staff

Objectives

1. Create ASP.Net applications.
2. Use Web server controls.
3. Create interactive web forms.
4. Create database-driven web applications.
5. Utilize validator controls. (YOU WILL HAVE TO RESEARCH A BIT ON THESE!!!)
6. Auto format Data Web Server Controls.

Situation

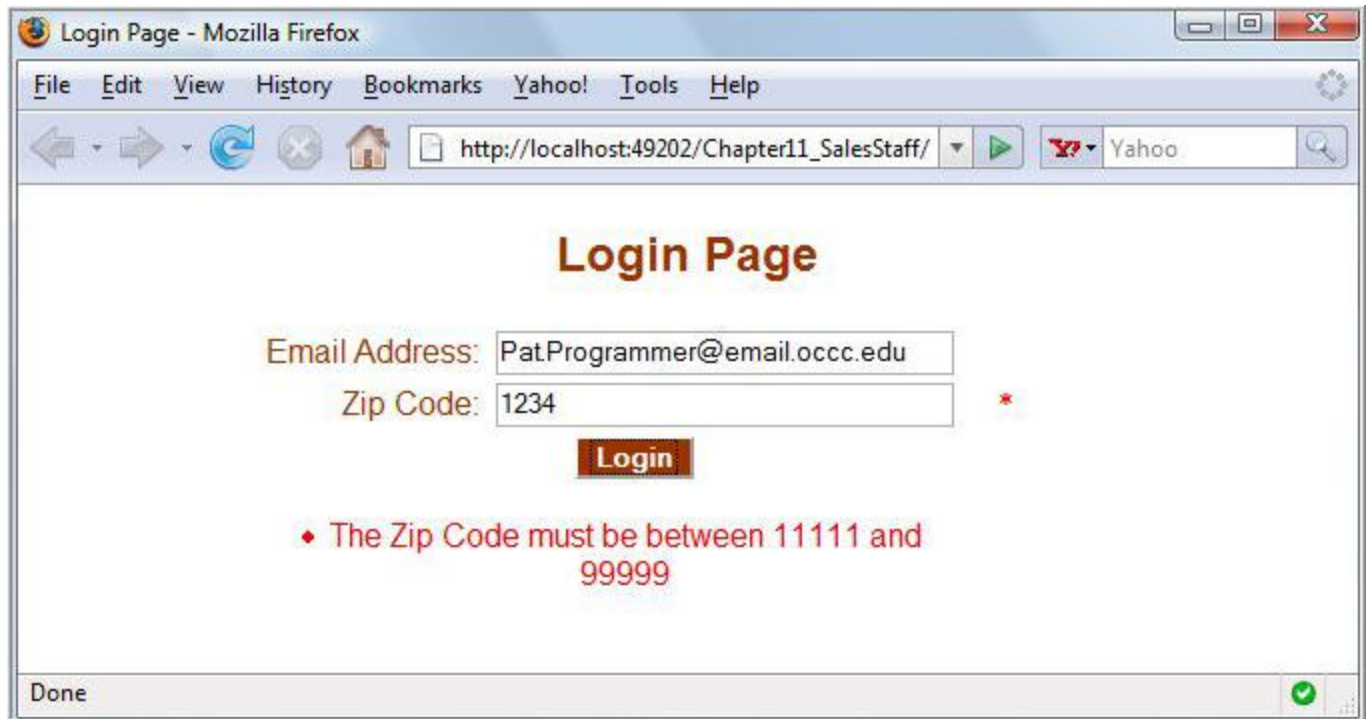
SalesStaff uses Company.mdf (Chapter 10), more specifically the SalesStaff table. One record will be displayed at a time using a DetailsView control. The user may update a record but may not delete it or add new ones. Before the user has access to the Update page, he/she must first login. (Well, actually pretend to login.) An email address and a zip code will be required during the login process. To pass validation the email address must be valid (as determined by using the RegularExpressionValidator) and the zip code must be a number between 10000 and 99999 (as determined by the RangeValidator control.) Once the validation is passed, the user will be redirected to the update page.

Specifications

1. Recurring Specifications that **are** required for the SalesStaff program
 1. The text of the first page(default.aspx) must be changed to Login Page and the text of the pages that access the SalesStaff table must be changed using SalesStaff by YourFirstName YourLastName. (If Pat Programmer was creating this program, it would be **SalesStaff by Pat Programmer**)
 2. Code must be grouped and commented.
 3. ALL files, forms, and controls MUST be renamed.
 4. Option Strict and Option Explicit must be ON
 5. Line Numbers must be displayed: Tools | Options| TextEditor | Basic | Editor.
 6. ALL controls on the form must be in logical TabOrder using TabIndex in the Properties window for each control.
 7. Start form must be named default.aspx.

8. The text property of Labels must be changed so that Label1 (or similar name) does not appear at runtime.
 9. Data types for variables and constants must be the most efficient.
 10. Use With..End With if and when appropriate.
 11. ToolTips to be added to appropriate controls.
 12. Various erroneous inputs will be tested during the grading process. If any of them result in the program halting or crashing, the **maximum** credit will be 50%. If submitted by the initial deadline, it may be resubmitted until the final deadline. Work that is late or resubmitted is subject to a 10% penalty, but that might be better than 50% or a 0.
2. Create a login page as shown below. It is to use the same color scheme as the SalesStaff page.
 1. Include a textbox for an email address, and another for the zip code.
 2. Include validation for the textboxes.
 3. Include a **RequiredFieldValidator** control for both textboxes.
 4. Use a **ValidationSummary** control as shown in the image below.
 5. Include a **RegularExpressionValidator** control to make sure the email address entered by the user is in the correct format.
 6. Use a **RangeValidator** control to check that the zip code is between 10000 and 99999 (five digit zip code)
 7. Include a login button that will redirect the user to the Update page after all of the validations have been passed.





3. Create an Update page using the SalesStaff table of Company.mdf (found in Chapter 10 data files.)
 1. Autoformat the DetailsView control using a theme of your choice. (It does not need to be the one shown here.)
 2. The Header text is to have all underscores removed (Example: First_Name --> First Name) and must be left aligned.
 3. The ID is to be right aligned.
 4. The first and last names (Adrian Adams) must be left aligned.
 5. The checkbox is to be centered.
 6. The Hire Date is to be formatted as shown and right aligned.
 7. The Salary is to be formatted as currency and right aligned.
 8. An Edit link is to be included to allow the user to update the record.
 9. Include a Logout button which will return the user to the main page.
 10. Include paging so all of the records can be accessed.

Sales Staff Information

ID	104
Last Name	Adams
First Name	Adrian
Full Time	<input checked="" type="checkbox"/>
Hire Date	5/20/1996
Salary	\$35,007.00
Edit	
<div>12345678910...</div>	

Logout

Initial Display

Sales Staff Information

ID	104
Last Name	
First Name	<input type="text" value="Pat"/>
Full Time	<input checked="" type="checkbox"/>
Hire Date	<input type="text" value="9/7/2008"/>
Salary	<input type="text" value="50000"/>
Update Cancel	
<div>12345678910...</div>	

After the Edit button was selected

11. Connection Strings must not include absolute paths (paths to files on your computer .. C:\VB2008\Chapter11\....) The programs MUST run without modifications when they are graded.

Assignment Submission

Zip the folder and submit it using the Assignment's DropBox.

Grading Chart

Item	Possible Points	Points Off	Comments
Login Form			
Textboxes and Labels	2		
RequiredFieldValidator	2		
RangeValidator	2		
RegularExpressionValidator	2		
ValidationSummary	2		
Redirect to Update page after all validations passed	2		
Formatting/layout of webpage	2		
Update Page			
DetailsView Control including connection to database	5		
Autoformatting the DataViews Control	3		
Paging	2		
Editing/Updating capabilities	4		
Formatted and Aligned HeaderText	4		
Formatted and Aligned data from records (checkbox, salary, etc.)	5		
Logout button	2		
Formatting/layout of webpage	2		
Overall Items			
Interface design, spelling and grammar	2		
Efficiency of code	2		
Recurring Specifications (12 items listed above)	5		
Total	50		
Late/Resubmit (10%)	-5		

	Final Total	
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