Assignment 1 – Blog

# Purpose

* Design a Blog

# Due Date

* This lab is due during the beginning of the Lab period in Week 7

# Assessment

* This Lab is worth 15% of your total course mark.

# Estimated Time

* This Lab is estimated to take 8 hours.

This is only an estimate of the time required to complete this Lab. I would encourage you to work at your own pace even if that means taking extra time to understand the concepts of the lab.

# Lab Supplies

To complete this lab you will require the following lab supplies:

* Visual Studio 2013
  + Available on MSDNAA or DreamSpark
* Access to Windows Azure

# Summary of Tasks

1. Read the Entire Assignment before Starting
2. Design
   1. ~/App\_Theme/General
   2. ~/MasterPage.Master
   3. ~/MasterPageMenu.Master
3. ~/Default.aspx
4. ~/FullBlogPost.aspx
5. ~/Login.aspx
6. ~/Register.aspx
7. ~/EditUser.aspx
8. ~/Admin/AdminHome.aspx
9. ~/Admin/AddBlogPost.aspx
10. ~/Admin/EditBlogPost.aspx
11. ~/Admin/BadWords.aspx

# Task 1 – Read the Entire Assignment before Starting

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# Task 2 – Design

Use the Common Look and Feel section in Blackboard (Content -> Module 2 -> Week 5) and choose a layout for your blog. Note, if you have another layout in mind please go ahead and use it; the basic layouts are just suggestions. Create an App Theme called ‘General’ that will house your design choices.

Create two master pages:

1. ~/MasterPage.Master
   * This master page will be used for
     + ~/Default.aspx
     + ~/FullBlogPost.aspx
     + ~/Register.aspx
     + ~/Login.aspx
2. ~/MasterPageMenu.Master
   * This master page will contain a menu for all of the administration
   * This master page will be used for
     + ~/Admin/AdminHome.aspx
     + ~/Admin/AddBlogPost.aspx
     + ~/Admin/EditBlogPost.aspx
     + ~/BadWords.aspx

The Master Pages should contain:

* Name of the Blog
* Your Name
* Student Number
* Email Address

The Master Pages should also contain a breadcrumb that allows the user to easily navigate around the application. For more information about breadcrumbs read: <http://en.wikipedia.org/wiki/Breadcrumb_(navigation)>

# Task 3 – Default.aspx

This page is the landing page of your web application. The page will contain the last 5 blog posts posted by the administrator. If the blog contains more than 5 posts page the grid view or repeater.

What to show in the grid view/repeater:

* Blog Post Title
* Short Description of the Blog Post
* Date/Time the Blog Post was created

If the user clicks on the Blog Post Title they are taken to ~/FullBlogPost.aspx.

This page requires a link to ~/Login.aspx

If the user is logged in to the application the person’s name is to be shown somewhere on the page and a link to ~/EditUser.aspx must be enabled.

If the user is an administrator of the application a link to ~/Admin/AdminHome.aspx is available. If this user is not an administrator this link is not available.

This page inherits from MasterPage.Master.

# Task 4 – FullBlogPost.aspx

This page shows all of the details of the selected blog post.

* Blog Post Title
* Author
* Full HTML Text
* Date/Time the blog post was created

After the blog details are displayed the user should be able to comment on the blog post. Users can comment more than one time. This functionality is only enabled if the user is logged in to the application. Before the comments are displayed they must be scanned for words on the Bad Words list; if a word is found it is exchanged with \*\*\*\*\*.

This page requires a link to go back to ~/Default.aspx.

This page inherits from MasterPage.Master.

# Task 5 – Login.aspx

This page allows the user to log into the application.

This page requires a link to ~/Register.aspx in case the user does not have an account.

This page requires a link to ~/Default.aspx in case the user does not want to log in.

This page inherits from MasterPage.Master.

# Task 6 – Register.aspx

This page allows the user to create an account. When creating an account collect the following information:

* First Name
* Last Name
* Email Address
  + Confirm the email address
* Password
  + Confirm the password
* Phone Number
* Date of birth
* Country

Use the appropriate validation methods for each of the fields. All fields are mandatory.

When the information is collected the user is automatically logged into the application and redirected to ~/Default.aspx

This page inherits from MasterPage.Master.

# Task 7 – EditUser.aspx

This page allows the user to update all of the fields collected in Task 6.

Use the appropriate validation methods for each of the fields. All fields are mandatory.

This page inherits from MasterPage.Master.

# Task 8 – Admin/AdminHome.aspx

This page is the landing page for the administration area of the blog.

This page requires an ‘Add Blog Post’ button that redirects the user to ~/Admin/AddBlogPost.aspx so more posts can be added to the system.

This page requires a grid view or repeater containing all the blog posts in the system. The Grid should display:

* Edit Button
  + This button redirects the user to ~/Admin/EditBlogPost.aspx so the post can be edited.
* Delete Button
  + This button deletes the blog post from the system. The button will trigger a confirmation dialog before the delete proceeds.
* Title
* Date/Time blog post created
* Whether or not the blog post is available

This page inherits from MasterPageMenu.Master.

# Task 9 – Admin/AddBlogPost.aspx

This page allows the user to add a new blog post to the system. A blog post requires the following information:

* Title
* Author
* Short Description
* Full HTML Text
* Is Available flag

Use the appropriate validation methods for each of the fields. All fields are mandatory.

This page inherits from MasterPageMenu.Master.

# Task 10 – Admin/EditBlogPost.aspx

This page allows the administrator to update all of the fields collected in Task 9.

Use the appropriate validation methods for each of the fields. All fields are mandatory.

This page inherits from MasterPageMenu.Master.

# Task 11 – Admin/BadWords.aspx

This page allows the administrator to define a list of bad words. This word list is used when displaying the comments on ~/FullBlogPost.aspx – each word defined in the list is not to be displayed in the comment area.

This page inherits from MasterPageMenu.Master.

# NOTES:

* Each page must have a title
* Master Pages must contain breadcrumbs
* All pages that collect data must have appropriate validation
* Email Addresses and Passwords must be encrypted before they are stored in the database.
* Do not overthink the requirements
* …
* More to come as questions arise.

# Submission

Once you have confirmed that you webpage is available online, you are ready to hand in your assignment.  
  
To hand in your lab go to Blackboard and navigate to Content  Assignments and click on ‘Assignment 1’ link.

Under “Assignment Materials”, in the Submission text box write out the following Information:

* Student Number
* First Name
* Last Name
* Network Username
* The URL, or hyperlink, prepared in the lab

If you want to leave your professor a quick note fill out the Comments section.

Finally, once the Submission and Comments section are complete, click the ‘Submit’ button to send the lab to your professor.

**IMPORTANT NOTE**:

If the URL, or hyperlink, does not direct the professor to the lab you will receive a ZERO for the lab assignment.

**IMPORTANT NOTE:**

You may only submit a Lab ONE TIME. Be sure the lab is complete before clicking on the ‘Submit’ button.