

CS795: Secure Distributed Systems With .Net
Summer 2009
Homework #1
Due: May 21, 2009

This programming assignment deals with ASP.Net. Create an application that meets the following specifications. Assume this application is restricted for use by different groups in an organization. Outsiders can see the start page but if they don't use one of the given secret keys, the system simply shows the same screen. (It does not prompt that it is an invalid code.)

- (1) There are four types of keys: Unclassified user: 13579; Confidential: 24680; Secret: 12457; top-secret: 23568
- (2) At the start page, depending on which keyword the user enters (into a textbox) and submits (using a submit button), the user will be redirected to that form. If invalid, the user is simply shown the same form.
- (3) For unclassified users: a user is first shown a picture of their office building (e.g., pick some office building and show it). In addition, the following options are provided, each of which may be selected by clicking a button or making a selection.
 - a. Go to a website by typing in a URL and submitting it. The form will open the web page in a new window.
 - b. Show the calendar for 2009 where user can choose the desired month.
 - c. List name and e-mail of all unclassified users.
- (4) For secret users: a user will be able to do all that is done under unclassified. In addition, the following options are provided.
 - a. List the names of secret users. When the user selects one of the users, it shows a picture of that user member. (Pick your own dummy list of users and their photos).
 - b. Let the user enter his/her date of birth into a textbox. The only valid numbers are in the format MM-DD-YYYY where MM is any number from 1-12; DD is from 1-31; and YYYY is from 1980-2008. Either use Regular expression validator to validate and show any error messages. (<http://www.regular-expressions.info/dotnetexample.html>). You must use a single text box to enter the data.
- (5) For top-secret users: a user will be able to do all that is done above (unclassified + secret users). In addition, the following are provided:
 - a. Let the user enter the name of a ship ID. The system simply looks at a table, and if valid, displays the current location of the ship. If invalid, it says so. (Choose your own list of ships and locations.)