

CSE 445/598 Project 5, Spring 2013

User Manual and Grading Sheet

Each Team must fill out Part 1 jointly, and each member must fill out the Part 2. We will follow this grading sheet to test your application and assign points based on the correctness and the level of challenge for each component and for the overall application. The level of challenge is the same as that we defined in assignment 3.

In the code, you must use comment to indicate the functions that implement specific components or functions required in the assignment. Then, you must answer the following questions in this document as the grading sheet. For most part of this document, you can use the same information (comment) that you provided in the code for this document.

Part 1: Joint Work (65 points)

- 1 Title of your Web application

String Processing Page

- 2 Names of Team Members:

Shihuan Shao, Hao Yan, Jie Guo, Yunlong Jiang

- 3 Describe your application and give the URL of your public page (main page). [4 points]

Our application is to process strings. We provide two levels of service including junior customer service and senior customer service. URL of the main page: <http://localhost:61385/GUI/Default.aspx>

- 4 Describe the authentication mechanism that your team implemented. Give the URL of your page with the authentication. This page must be linked to the main page too. [8 points]

Junior Customer: Search the username in the User.xml, if there is no such username, access denied. If such an username exists, but password is incorrect, access denied. Else, access approved. <http://localhost:49562/GUI/LoginJunior.aspx>

Senior Customer: Search the username in the web.config, if there is no such username, access denied. If such an username exists, but password is incorrect, access denied. Else, access approved. <http://localhost:49562/GUI/LoginSenior.aspx?ReturnUrl=%2fGUI%2fProtectedSeniorService%2fSeniorService.aspx>

- 5 Describe the authorization mechanism that your team has implemented. Give the URL of your page with the authorization. This page must be linked to the main page too. [8 points]

We have a register page to authorize registered customer to use the junior string service. New users must enter their passwords twice to confirm the passwords. Also, usernames of the administrators such as HaoYan, ShihuanShao, and so on are now allowed in this register page.

<http://localhost:49562/GUI/Register.aspx>

- 6 Global.asax file: Describe the two handlers that you implement. [5 points]

We have two handlers to monitor the application and session respectively. When the application starts, the application and session handlers that record the total visits and users are evaluated to 0. Each session request would increase the session record by 1, and each application request would increase the application record by 1.

- 7 Data management:

- 1) Permanent states (XML file or text file); [10 points]

Describe the functions that you implement in text file or XML file. Give the file name created in App_Data folder.

We record new registered username and password in User.xml and also search the given username and its password when someone logs in from this XML file. Path: **App_Data\user.xml**

- 2) Cookie for storing user profile; [5 points]

Describe cookies that you have implemented

Cookie mykeyie is used to store username and password of the last user. Username is stored in myCookies["Username"] and password in myCookies["Password"].

- 3) Session state for storing temporary states for sharing among the sessions [5 points]

Describe session state that you have implemented.

I use Session["Username"] to store the current username and Session["Password"] to store the current password. Session would be checked when logging onto each page.

- 8 Deployment: The complete project must be deployed into the give server (WebStrar or V-Lab) and submitted to the Blackboard submission site. We will read the code using the Blackboard submission and test the code using the server deployment. [10 points]

- 9 Test plan. List the steps for testing each function of the application, data needed, and expected outcomes for testing your application. [5 points]

Register function

Data needed: username = abc, password = 123, confirm password = 123

Expected outcome: register succeeds

Data needed: username = HaoYan, password = 123, confirm password = 123

Expected outcome: your username is not allowed.

Data needed: username = ccc, password = 111, confirm password = 222

Expected outcome: your password is wrong.

Login function

Data needed: username = Robbie, password = 111

Expected outcome: login succeeds

Data needed: username = tttttt, password = 0000

Expected outcome: your username or password is wrong.

DLL function:

Example: Kg to pound

Data needed: Kg = 100

Expected outcome: pound = 220

Cookie function:

Close the website without logging out and reopen the website.

Data needed: Hao Yan

Expected outcome: Hao Yan, 1

Service function:

Refer to the specific service page. Examples are shown there.

Clear cookie function:

Click the clear cookies button.

Expected outcome: cookies cleared, the username and password shown in the main page will be cleared to.

Logout function

Click the logout button

Expected outcome: cookies and sessions are cleared.

- 10 Completeness of this grading sheet. [5 points]

- 11 Percentage of contribution of to the joint work (Part 1). The total must add to 100%.

Name: Shihuan Shao Percent 25%

Name: Hao Yan Percent 25%

Name: Jie Guo Percent 25%

Name: Yunlong Jiang Percent 25%

The percent of contribution will be used to scale the score of each member in this part.

Part 2: Individual Work (35 points)

Member 1 Name: Shihuan Shao

1. Give the .ascx file name that you implemented, and describe the function of this user control: [10 points]
File name: Ip.ascx.
Function: Find and reveal the ip address of the current user.
2. Give the DLL file name that you implemented, and describe the function of this library function; [10 points]
DLL file name: Dll2.
Function: convert km to mile.
3. Give service name that you developed or used, and describe the function of this service; [15 points]
Service name: Top10Words
Function: Given the url, find ten most frequently occurred words in the page.
Service name: WordFilter
Function: Given a string of words, filter the useless words such as “the”, “a”, and so on.

Member 2 Name: Hao Yan

1. Give the .ascx file name that you implemented, and describe the function of this user control: [10 points]
File name: LoginJunior.ascx, LoginSenior.ascx
Function: Check the username and password of junior customer and senior customer. If they match what stored in the xml file and web.config, they can access to their specific service page, otherwise the access would be denied.
2. Give the DLL file name that you implemented, and describe the function of this library function; [10 points]
DLL file name: dll4.
Function: convert dollar to RMB.
3. Give service name that you developed or used, and describe the function of this service; [15 points]
Service name: AllCombination
Function: list all the combination of the chars in the string.
Service name: MergeSort
Function: Sort the chars using merge sort.

Member 3 Name: Jie Guo

1. Give the .ascx file name that you implemented, and describe the function of this user control: [10 points]
File name: Register.ascx

Function: Used for new junior users to register their usernames and related passwords.
Four username of administrators are now allowed to register.

2. Give the DLL file name that you implemented, and describe the function of this library function; [10 points]

DLL file name: Dll1

Function: convert Celsius to Fahrenheit.

3. Give service name that you developed or used, and describe the function of this service; [15 points]

Service name: FindLongestPalindrome

Function: Find the length of the longest palindrome sequence in given string.

Member 4 Name: Yunlong Jiang

1. Give the .ascx file name that you implemented, and describe the function of this user control; [10 points]

File name: Stat.ascx

Function: Record the total visits to the website and reveal on the main page.

2. Give the DLL file name that you implemented, and describe the function of this library function; [10 points]

DLL file name: dll3.

Function: convert kg to pound.

3. Give service name that you developed or used, and describe the function of this service; [15 points]

Service name: DeleteChar

Function: Delete chars of str2 in str1 and shift the remaining chars corresponding.