

Open Source Web Programming (Exercise one)

DUE DATE : 2016-06-25

ANSWER ALL QUESTIONS : Total 20 marks

Suggestions: Design according to the requirements. Keep it simple and there is no need to produce elaborate web pages.

1. Wine Tours Vienna offers unique wine tasting experience to registered customers. The winery has a web site for visitors to register and to log in to order discount wine tasting tickets in the summer season. The front page contains the following information.

- a. The name of the winery is at the top-left corner of the page.
- b. There are two tabs horizontally aligned beneath the winery name. One tab is labeled with the text 'Registration', the other tab with the text 'Login'.
- c. Beneath the tabs is a rectangular area.
 - i. When the mouse cursor is moved upon the Registration tab, a registration form instantly appears in the rectangular area. It contains three text input fields placed vertically so that a customer can enter a name, an email address and a password suggested by a customer respectively. There is a submit button at the left-bottom of the rectangular area. When the submit button is clicked, an acknowledgment message with a customer ID appears to the right of the submit button.
 - ii. When the mouse cursor is moved upon the login tab, a login form instantly appears in the rectangular area. It contains two text input fields placed vertically for a customer to type in a customer ID and a password. There is a submit button at the left-bottom of the rectangular area. The input fields will be validated when the submit button is clicked. If the validation is successful, an image of a glass filled with wine appears inside the rectangular area together with a message about the place where the customer can pick up two discount tickets.
 - iii. Here are the constraints in the input fields: At least five alphabetic characters for the name, an email address with a correct email format, and 5 numerical digits for the password and customer ID.
 - iv. If the letters typed into an input field does not conform to the constraints, a red error message will instantly appear at the right of the input field when the mouse cursor is moved away from the input field.

Use AJAX, PHP with validation and Javascript to construct a prototype of the front page. (15 marks)

2. Write a set of comprehensive test cases to verify the correctness of your implementation.(3 marks)

3. Write a design summary of about 300 words about your design in question 1. (2 marks)

Please include the source code for question 1 in Appendix A and selected essential screen captures of the test results in Appendix B.

Please use the convention [Yourname_StudentID_Ex1.doc] to name your assignment when it is submitted.

EX1:Sample winery front page

Wine Tours Vienna

Registration	Login
Your Full Name: <input type="text"/>	
Email: <input type="text"/>	
Type in a new password: <input type="text"/>	
<input type="button" value="Submit"/>	


Wine Tours Vienna

Registration	Login
Your Full Name: <input type="text" value="John"/> Error: At least 5 alphabets.	
Email: <input type="text"/>	
Type in a new password: <input type="text"/>	
<input type="button" value="Submit"/>	

Wine Tours Vienna

Registration	Login
<p>Customer ID:</p> <input type="text"/>	
<p>Type in your password:</p> <input type="password"/>	
<input type="submit" value="Submit"/>	

Wine Tours Vienna

Registration	Login
<div><p>Please claim two discount tickets at the winery guest house with your Customer ID. Thank you!</p></div>	

