COMP4021 Chatroom Project

Overview

- Basic chatroom engine (10 marks)
- User name checking (10 marks)
- Logging in and logging out (20 marks)
- Chat message input and message color (15 marks)
- Automatic hyperlink (10 marks)
- Online user list (15 marks)
- User tag adding, and display (20 marks)

^{*} Maximum 100 points, no bonus given.

Basic chatroom engine (10 marks)

- 4 marks: Basic system procedure (e.g. login, adding message, display message in the chat room, etc.)
- 4 marks: Appropriate transimission from client to server (e.g. the new message is added to the xml file)
- 2 marks: Appropriate user interface (the given one is ok)

User name checking (10 marks)

In "login.html", complete the function "checkInput()"

- 4 marks: User name cannot be empty
- 4 marks: User name cannot contain illegal characters. Only numbers (0~9),
 English letters (a~z, A~Z), and "_" are legal
- 2 marks: If the user name fails the aforementioned conditions, alert (e.g. using javascript "alert()" function to display proper contents)

^{*} User name is case sensitive

Logging in and logging out (20 marks)

Logging in:

- 5 marks: A user must enter a name and a picture to enter the chatroom. The
 picture will be used in online user list (see later slides)
- 5 marks: An error will be shown if any of the information is not correctly enter or selected
 - User "alert()" if the name fails the condition as mentioned in the previous slide
 - For other kinds of errors, "alert()" or redirecting to an error page are both acceptable

Please enter your user name:

Please upload a picture:

Go!

Logging in and logging out (20 marks)

Logging out:

- 5 marks: There is a "Log out" button somewhere in the page
 - You can place the button anywhere you feel comforatble
 - You can use any way to display the button (e.g. <div>, <button>, etc.)
 - After clicking the button, the user will log out
- 5 marks: After logging out, redirect to the login page

Chat message input and message color (15 marks)

- 5 marks: User can enter the message in a text field and it is shown in the chat room once sent
- 5 marks: User can selects a color by clicking on a color box
 - There should be at least 6 colors available for selecting
 - The default color is the first color shown in the interface (e.g. black in the figure below)
- 5 marks: The message is displayed using the selected color in the chat room

What is your message?	
Send Your Message	Choose your color:

Automatic hyperlink (10 marks)

If a substring in the message is a URL, convert it to a hyperlink that:

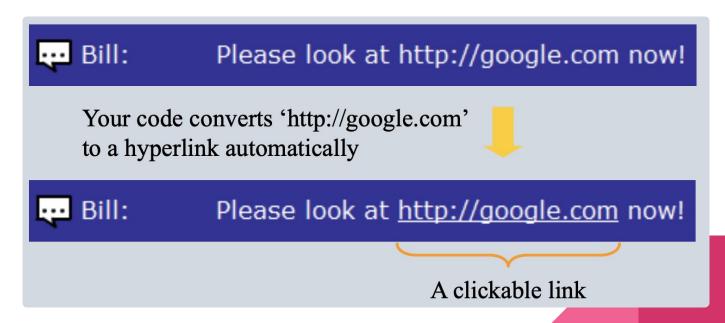
- 4 marks: The hyperlink is displayed as an **underlined** text
- 6 marks: The user can click on the hyperlink to display it in a **new** browser window (if you replace the current page, get only 3 marks)

Please see the example in the following slide.

* We assume that a URL is a substring which starts with "https://" or "http://" and does not contain any **space**

Automatic hyperlink (10 marks)

Hyperlink example:



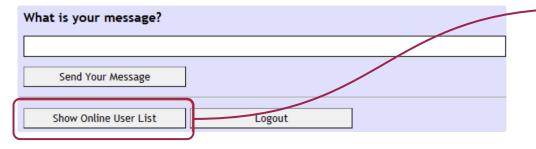
Online user list (15 marks)

- 2 marks: The user can click on a button to see the online user list. You can place it anywhere and use any way to display
- 4 marks: The online user list is shown in a new window (if you replace the current page, get only 2 marks)
- 9 marks: The list contains current user in the chat room system listed by their name (4 marks) and uploaded pictures (5 marks). The pictures are displayed using a predefined size (e.g. 50 by 50 pixels)

Please see the example in the following slide.

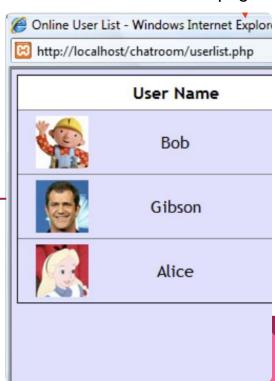
Online user list (15 marks)

Online user list example:



a. There is a button in the interface

b. Show the list in a new page



User tag adding and display (20 marks)

- The user can click on an "Add tag" button. You can place it anywhere and use any way to display.
 - 5 marks: After the "Add tag" button is clicked, a text field where the user can write the tag and a "Submit tag" button shows up in the same page (hint: it can be achieved using Javascript hiding and showing element)
 - 2 marks: After the "Submit tag" button is clicked, the text field and the "Submit tag" button will be hidden
 - Note: 3 marks will be deducted if you implement this functionality by opening a new page in the browser

User tag adding and display (20 marks)

- 8 marks: In the chat room, the tags will be displayed after the name of the user.
 - For example, if "Alice" has tag "sportsman" and "musician", you should display
 "Alice (sportsman, musician): message" in the chat room. The rule applies on all
 the messages of "Alice"
 - You can use any fancy style to display as long as the tags are shown behind the user name
- 5 marks: A user can have at most three tags. If a user already has three tags and one tag is added, the oldest one will be replaced.

Submission

- All your works must be developed in the "htdocs" directory if you are using XAMPP
- All project files in the "htdocs" directory should be submitted. You could use sub-directories. You should compress them and submit a single zip file, in the format "StudentId_Name_Chatroom.zip"
- Please remove unnecessary files (e.g. personal testing files) before you zip and submit the work
- If you want to specify anything, write in a "readme.txt" file and include it in the zip file
- Late submission has 20% panelty for each day

Q&A

Please contact the TA ZHU Haoren (hzhual@connect.ust.hk) if you have any query about the project requirement.