

ADVANCED WEB PUBLISHING APPLICATIONS

Assignment I 2021

Part I: Basic Blog

You must use a combination of HTML, CSS, JavaScript, PHP and MySQL to create a simple live blogging web app.

Chat

webdevcit.com/tests/publishing2022_a1/index.php


Add New Emoticon

Live Blog


Choose emotion:

☐ Angry ☐ Happy


Send



I'm not
[Happy]
19 / 10 / 22 23:02



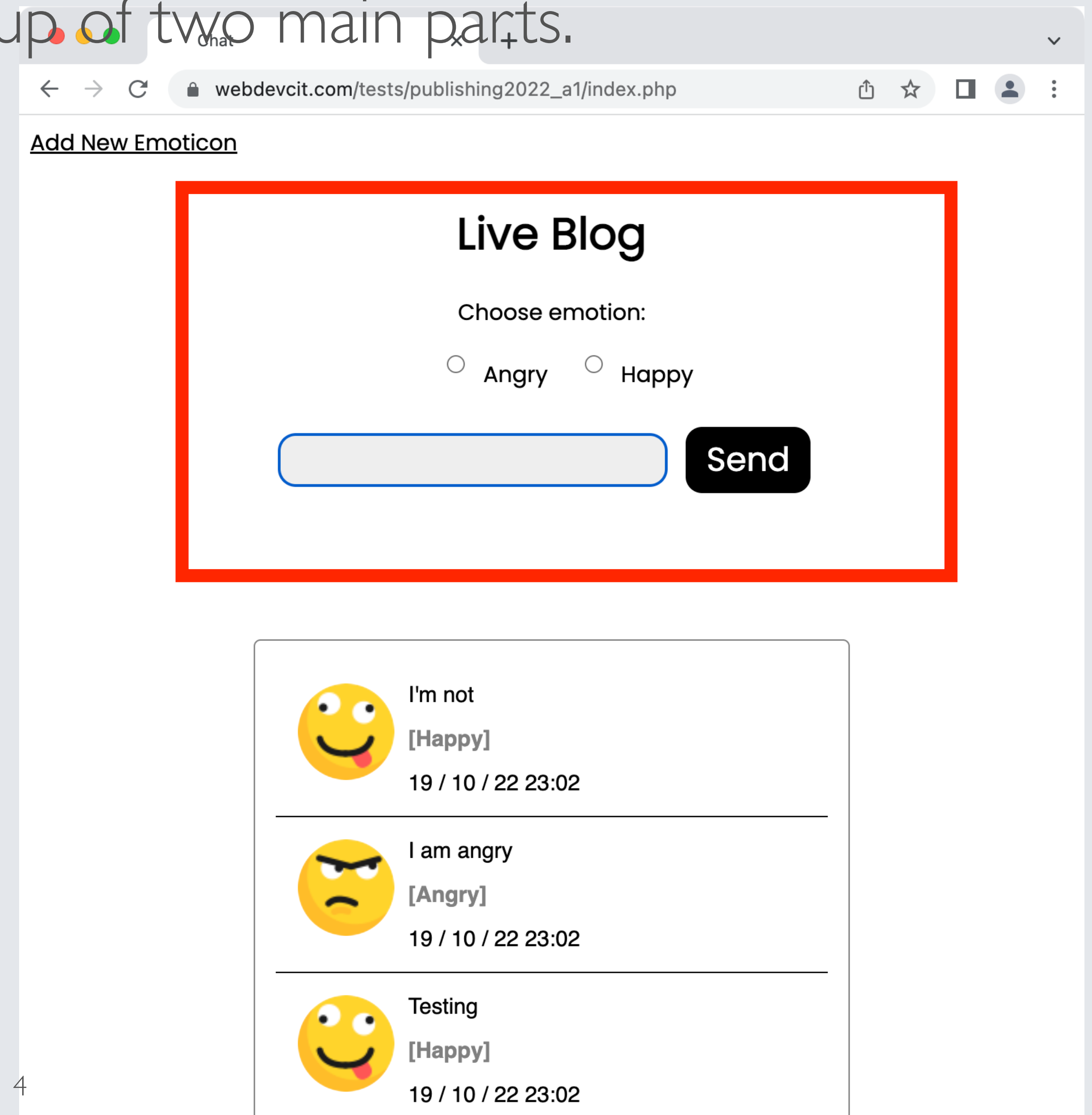
I am angry
[Angry]
19 / 10 / 22 23:02



Testing
[Happy]
19 / 10 / 22 23:02

The main page is made up of two main parts.

a) The authoring part where users can enter a new micro blog post.



The screenshot shows a web browser window with the URL `webdevcit.com/tests/publishing2022_a1/index.php`. The page has a header with navigation icons and a title `Add New Emoticon`. The main content area is titled `Live Blog` and contains a form for creating a new post. The form includes a label `Choose emotion:` with two radio buttons: `Angry` and `Happy`. Below the radio buttons is a text input field and a `Send` button. Below the form is a list of previous posts, each with an emoji, a text description, an emotion label in brackets, and a timestamp.


Add New Emoticon


Live Blog


Choose emotion:

☐ Angry ☐ Happy

Send

 I'm not
[Happy]
19 / 10 / 22 23:02

 I am angry
[Angry]
19 / 10 / 22 23:02

 Testing
[Happy]
19 / 10 / 22 23:02

Chat

webdevcit.com/tests/publishing2022_a1/index.php


Add New Emoticon

Live Blog


Choose emotion:

☐ Angry ☐ Happy


Send



I'm not
[Happy]
19 / 10 / 22 23:02



I am angry
[Angry]
19 / 10 / 22 23:02

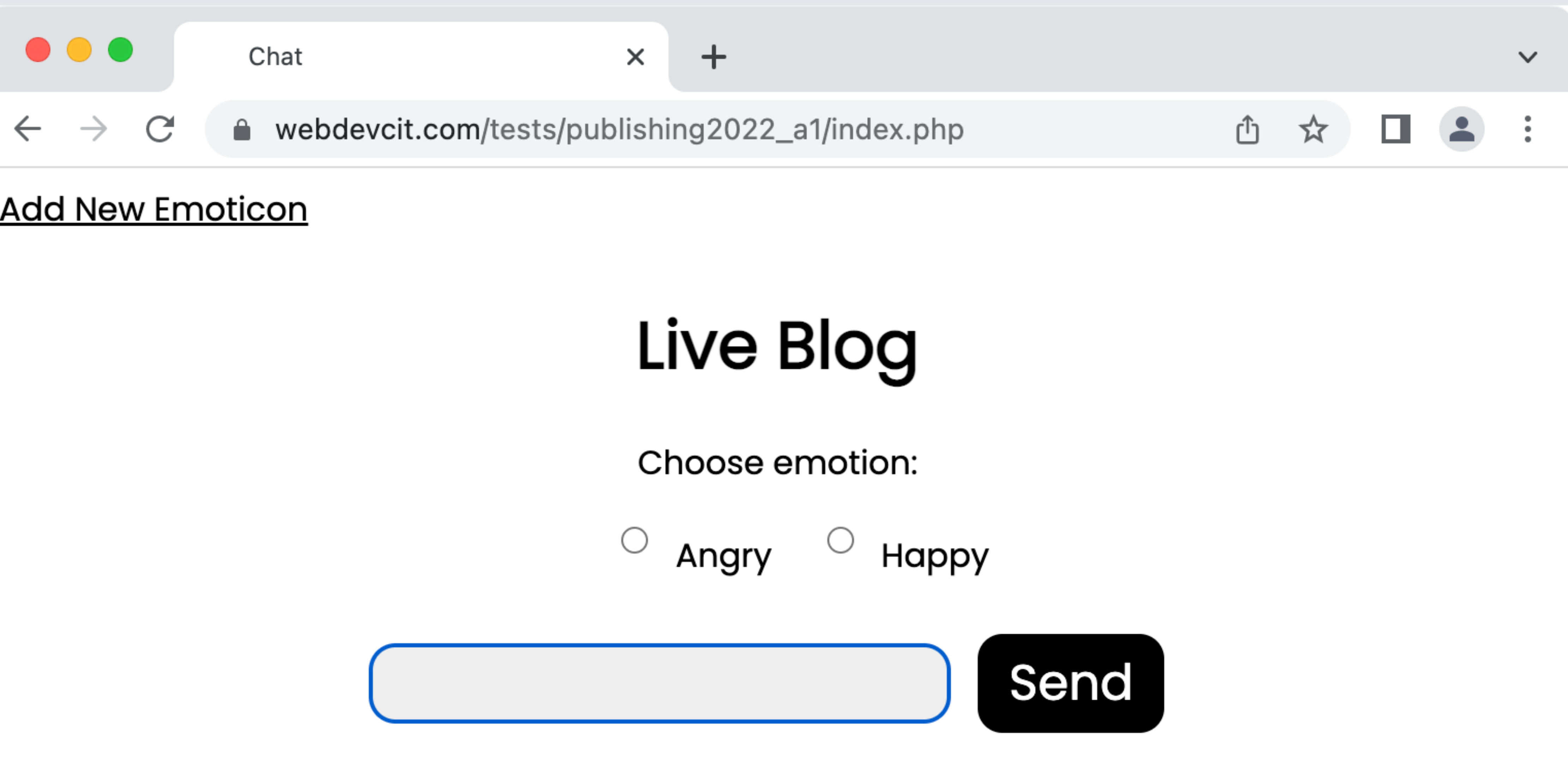


Testing
[Happy]
19 / 10 / 22 23:02

b) A preview section where a live view of the blog - i.e. a list of the posts - is presented (i.e. it constantly updates itself via Ajax).

Details

You have a text field and a button that sends the text in the textfield to a script on the server (also written by you). This script will save that text in a database table.



The screenshot shows a web browser window with a single tab titled 'Chat'. The address bar displays the URL 'webdevcit.com/tests/publishing2022_a1/index.php'. Below the browser window, the page content includes a link 'Add New Emoticon' on the left. In the center, the heading 'Live Blog' is displayed. Underneath the heading is the text 'Choose emotion:' followed by two radio button options: 'Angry' and 'Happy'. At the bottom of the form, there is a light gray rounded rectangular text input field and a black rounded rectangular button with the word 'Send' in white text.

Chat

webdevcit.com/tests/publishing2022_a1/index.php

[Add New Emoticon](#)

Live Blog

Choose emotion:

☐ Angry ☐ Happy

Your PHP script should store:

- 1) a **unique ID** (auto incremented)
- 2) The **text** of the post/message
- 3) The **id** of the emotion associated with the message (the details - name and image - will be stored in another table)
- 4) The **time/date** the post was saved

Along with the text of the message you will send and store the emotion associated with the message.

The screenshot shows a web browser window with a single tab titled 'Chat'. The address bar displays the URL 'webdevcit.com/tests/publishing2022_a1/index.php'. Below the browser window, the page content includes a link 'Add New Emoticon' and a section titled 'Live Blog'. Under 'Live Blog', there is a label 'Choose emotion:' followed by two radio button options: 'Angry' and 'Happy'. A red rectangular box highlights the area containing these two options. A red arrow points from the top right towards the 'Happy' radio button. Below the emotion selection, there is a text input field with a blue border and a black 'Send' button.

Chat

webdevcit.com/tests/publishing2022_a1/index.php

Add New Emoticon

Live Blog

Choose emotion:

☐ Angry ☐ Happy

Send

This can be chosen from one of several radio buttons. The names next to the radio buttons and the values the buttons return **should be generated by PHP from a database table of emotions.**

The screenshot shows a web browser window with a single tab titled 'Chat'. The address bar displays the URL 'webdevcit.com/tests/publishing2022_a1/index.php'. The page content includes a link 'Add New Emoticon' and a section titled 'Live Blog'. Below the title, the text 'Choose emotion:' is followed by two radio buttons: 'Angry' and 'Happy'. These radio buttons are enclosed in a red rectangular box. Below the radio buttons is a text input field with a blue border, and to its right is a black 'Send' button.

Chat

webdevcit.com/tests/publishing2022_a1/index.php

Add New Emoticon

Live Blog

Choose emotion:

☐ Angry ☐ Happy

Send

☐ Angry ☐ Happy



The initial names (with their images, see part 2) can be manually added by you to the database to begin with. See Part 2 for how we will automate this.

`SELECT * FROM `liveblogemotions` LIMIT 50` (0.000 s) [Edit](#)

<input type="checkbox"/> Modify	id	image	name
<input type="checkbox"/> edit	11	3561839_emoji_emoticon_silly_icon.png	Happy
<input type="checkbox"/> edit	12	3561847_emoji_emoticon_emoticons_expression_mad_icon.png	Angry

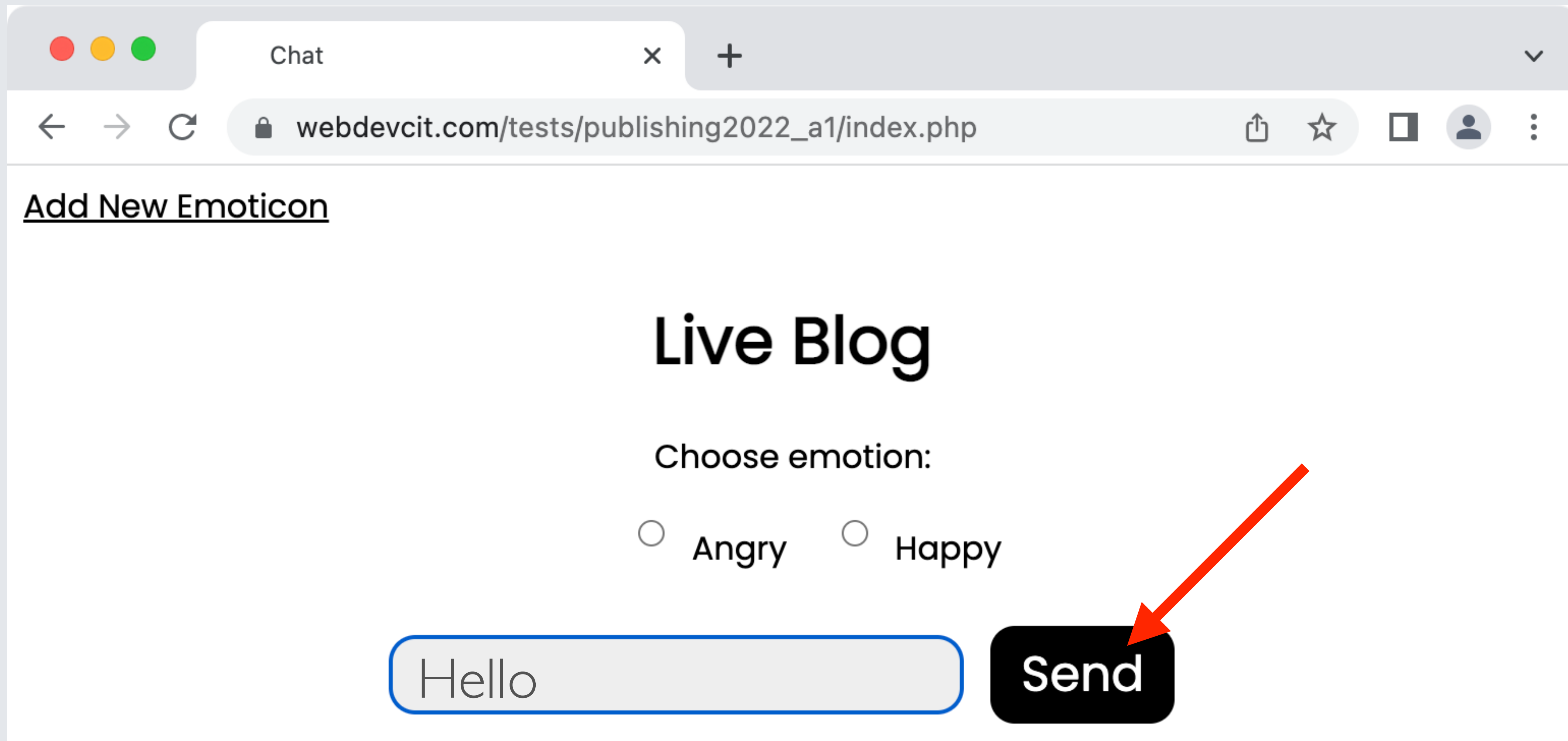


For each emotion you should store the following in a database table:

- 1) a **unique ID** (auto incremented - this can be used in the table of posts to indicate who created the post, it can also be the value returned by the drop down menu of usernames).
- 2) The **name** (as text)
- 3) The **filename** of the icon image (as text), or an **id**.

For this assignment you can enter some sample rows into the user table to test your page (and you can copy the avatars onto the server yourself).

Pressing the button will send/save the message (i.e. pass the message & emotion to a PHP script via Ajax). This is not a regular form submit button.



The screenshot shows a web browser window with a single tab titled 'Chat'. The address bar displays the URL 'webdevcit.com/tests/publishing2022_a1/index.php'. Below the browser window, the page content includes a link 'Add New Emoticon' and a section titled 'Live Blog'. Under 'Live Blog', there is a label 'Choose emotion:' followed by two radio button options: 'Angry' and 'Happy'. At the bottom, there is a text input field containing the word 'Hello' and a black 'Send' button. A red arrow points to the 'Send' button.

Chat

webdevcit.com/tests/publishing2022_a1/index.php

Add New Emoticon

Live Blog

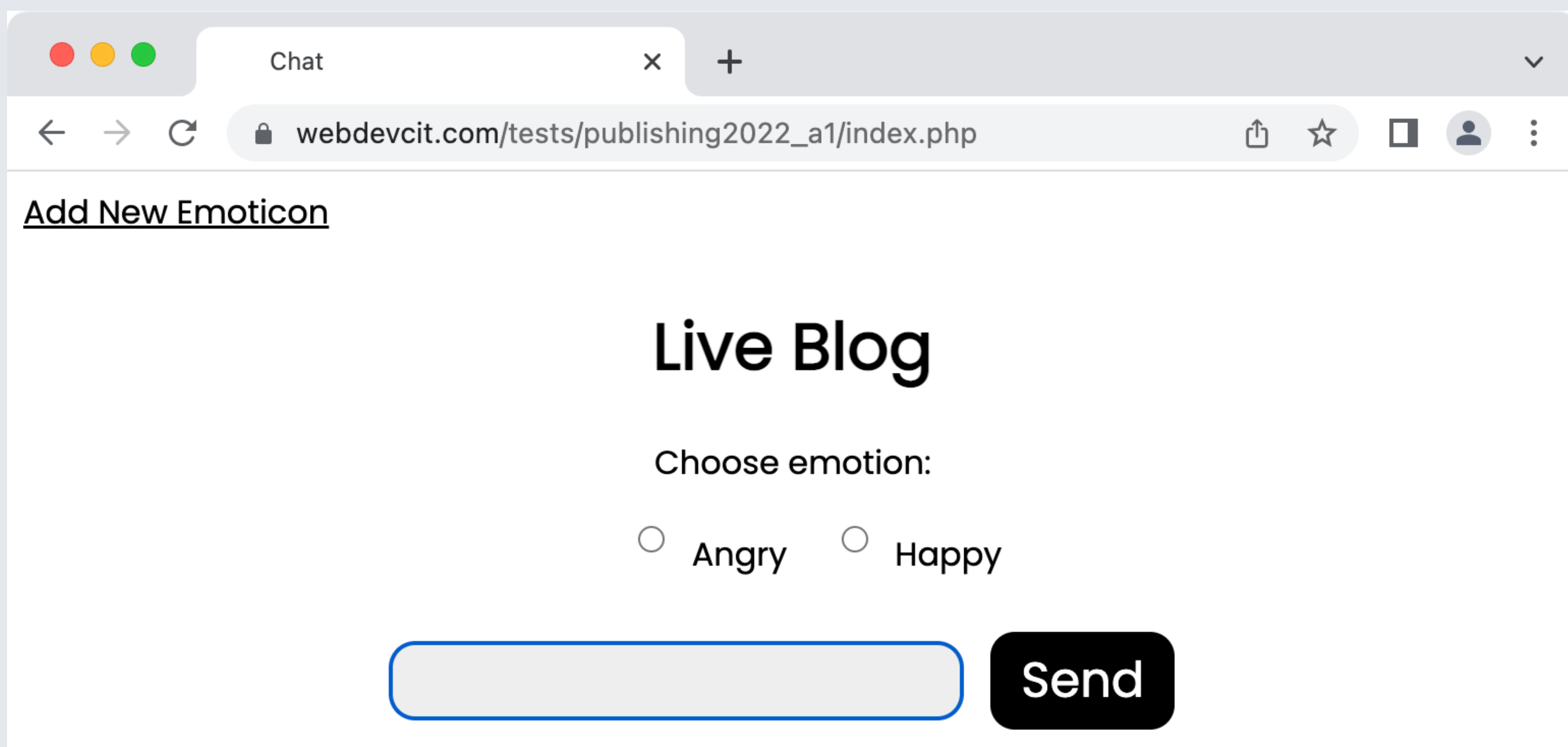
Choose emotion:

☐ Angry ☐ Happy

Hello

Send

Sending the data will also clear the text field (via JavaScript).



The screenshot shows a web browser window with a single tab titled 'Chat'. The address bar displays the URL 'webdevcit.com/tests/publishing2022_a1/index.php'. The page content includes a link 'Add New Emoticon' at the top left. In the center, the heading 'Live Blog' is displayed. Below the heading, the text 'Choose emotion:' is followed by two radio button options: 'Angry' and 'Happy'. At the bottom, there is a light gray text input field with a blue border and a black 'Send' button to its right.

Chat

webdevcit.com/tests/publishing2022_a1/index.php

Add New Emoticon

Live Blog

Choose emotion:

☐ Angry ☐ Happy

Send

If there is no emotion selected you should **not** send the data and alert the user instead.




Similarly, if there is no message entered you should not send the data and alert the user instead.

webdevcit.com says

Please Enter Message and/or select emotion

OK

The list of blog entries is generated separately. I.e. it will require a separate PHP script.

	19 / 10 / 22 23:02
<hr/>	
	I am angry [Angry] 19 / 10 / 22 23:02
<hr/>	
	Testing [Happy] 19 / 10 / 22 23:02

The preview pane **separately** reads the data from the database at a regular interval (via Ajax and another PHP script that you will write that **returns the posts as HTML**) and displays the posts on screen **in reverse chronological order**.

image

	19 / 10 / 22 23:02
<hr/>	
	I am angry [Angry] 19 / 10 / 22 23:02
<hr/>	
	Testing [Happy] 19 / 10 / 22 23:02

message

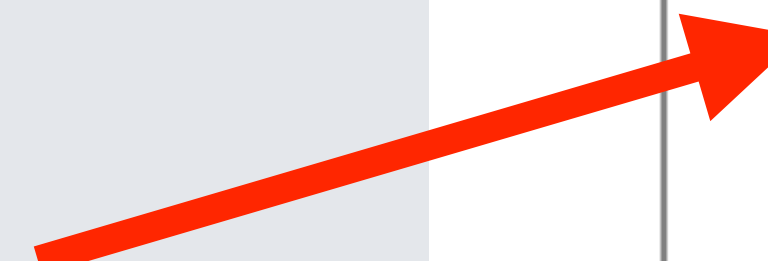
emotion (text)




date & time

In the list of posts in the display pane the **name**, date, and a **picture** representing the emotion, will appear along with the **message**.

Not all emotions will have a corresponding image/avatar in the table. In these cases you just show the other content for the message without an image (just include the text)

(Make sure one of your emotions doesn't have an avatar when you submit your assignment so that this feature can be tested).



What is happening	
	[Puzzled] 19 / 10 / 22 23:35
<hr/>	
	I'm not [Happy] 19 / 10 / 22 23:02
<hr/>	
	I am angry [Angry] 19 / 10 / 22 23:02

You must write a script that returns HTML that displays (up to) the **most recent 20** messages in the database. You can then replace the messages currently displaying on the page with this new HTML.

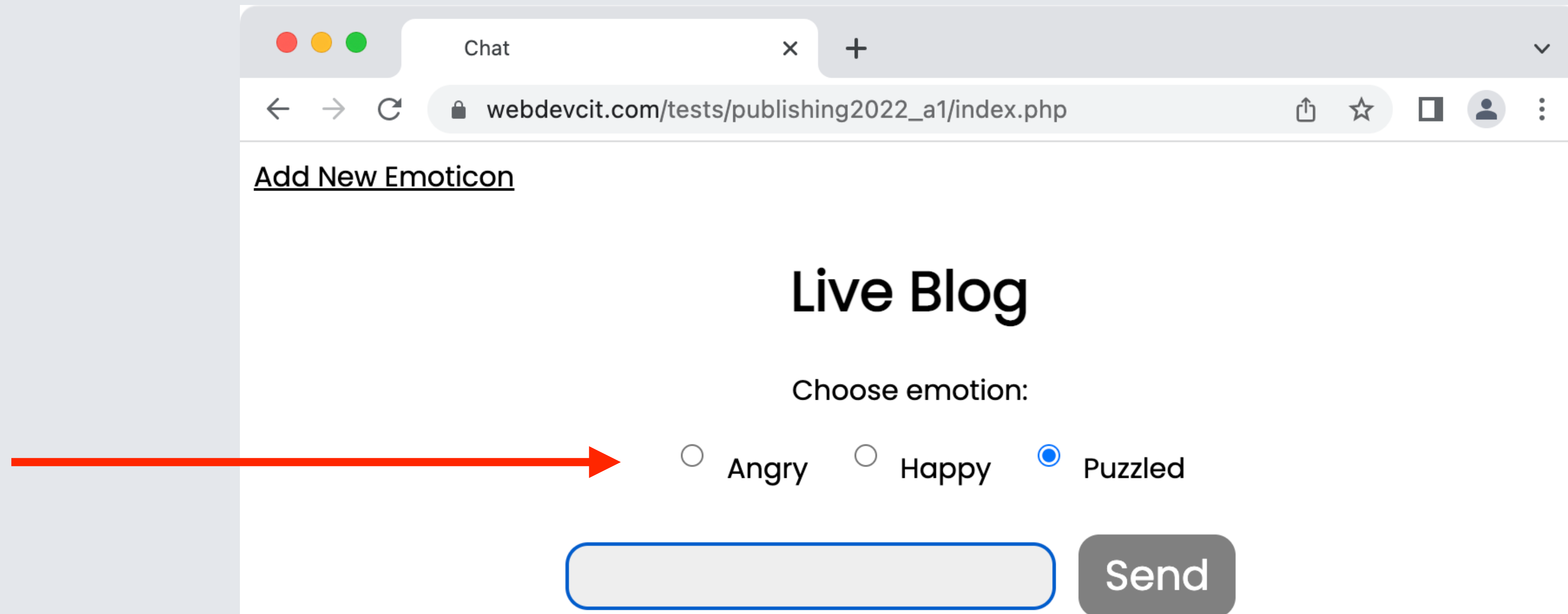
The part of your JavaScript code that calls the server-side script can be called every few seconds (via **`setInterval()`**)

NOTE: Do not have the interval set to anything quicker than once a second. I.e. there is no need to put unnecessary load on the server.

Note that the messages appear in a finite sized area on the page and can be scrolled within that area (see screencast for details).

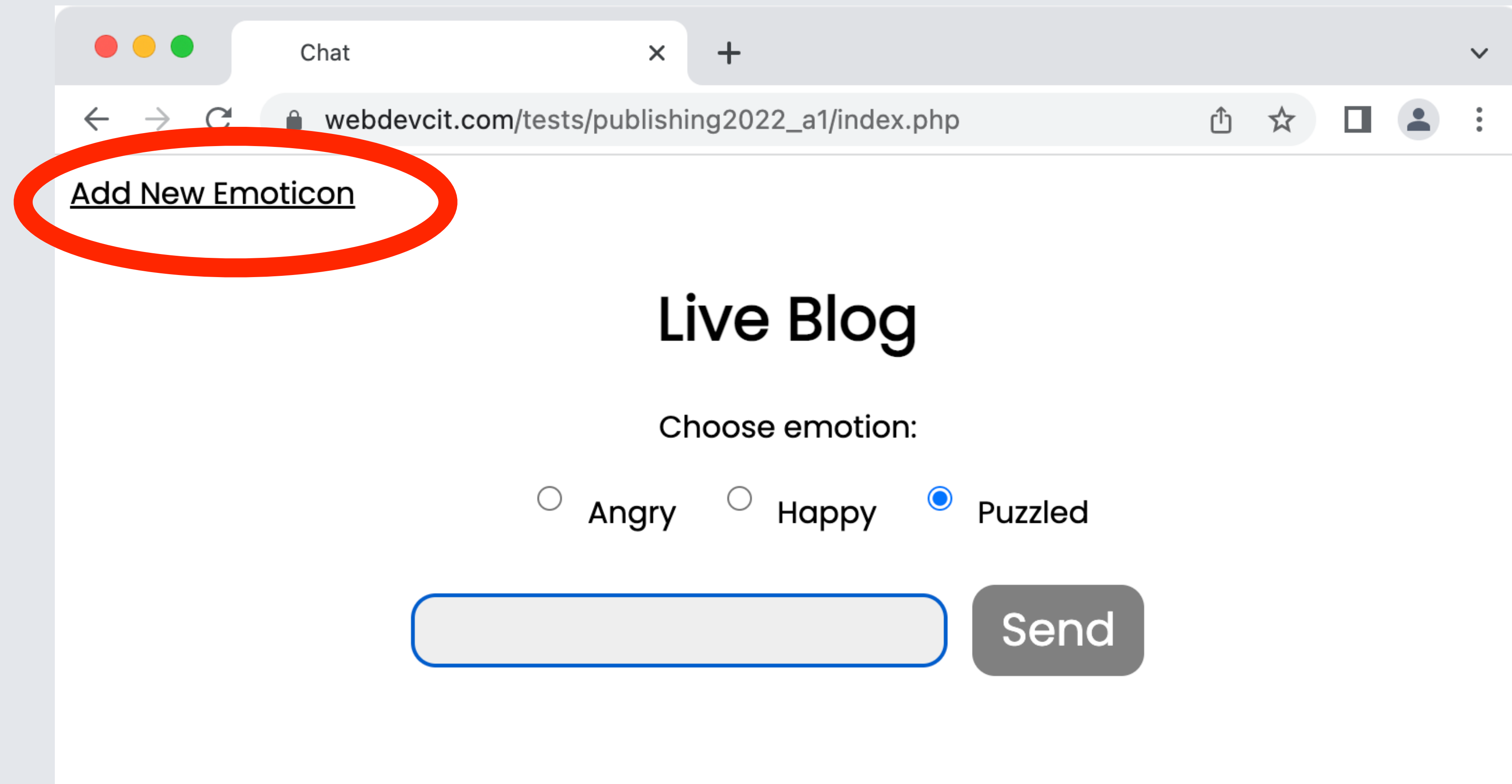
Part II: Add an Emotion to the Blog

You must also write a page/script that will create a new emotion. This emotion should also appear in the list of usernames on the main page.



The screenshot shows a web browser window with a single tab titled 'Chat'. The address bar displays the URL 'webdevcit.com/tests/publishing2022_a1/index.php'. The page content includes a link 'Add New Emoticon' and a section titled 'Live Blog'. Below the title, the text 'Choose emotion:' is followed by three radio button options: 'Angry', 'Happy', and 'Puzzled'. The 'Puzzled' option is selected, indicated by a blue dot. A red arrow points from the left towards the 'Puzzled' radio button. Below the radio buttons is a text input field with a blue border, and to its right is a grey 'Send' button.

Place a link to this new page
on the main page.



Chat

webdevcit.com/tests/publishing2022_a1/index.php

Add New Emoticon

Live Blog

Choose emotion:

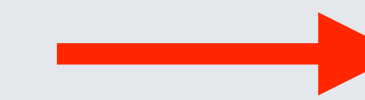
☐ Angry ☐ Happy ☒ Puzzled

Send

On this new HTML page you should have a form that has the option to send a new emotion name and the filename of an image (from a predefined choice)

You can use the normal form submission mechanism for this (i.e. using the form **action**. You don't need Ajax).

You should provide an option to select **NO** avatar.




webdevcit.com/tests/publishing2022_a1/


Create New Emoticon


Name

Choose Image

☐ No Image

☐ 

☐ 

☐ 

[Live Blog Page](#)

The list of emotion images/icons must be automated. I.e. you can do one of the following:

- 1) Store the image names in a database table and create the list of avatars from that.
- 2) Store the images themselves in a directory on the server and automatically generate the list of images by inspecting that folder in your script.

In the case of (1) above you should store the id of the avatar in the users table. In the case of (2) you can store the actual name.


← → ↻ 🔒 webdevcit.com/tests/publishing2022_a1/


Create New Emoticon


Name

Choose Image

☐ No Image

☐ 

☐ 

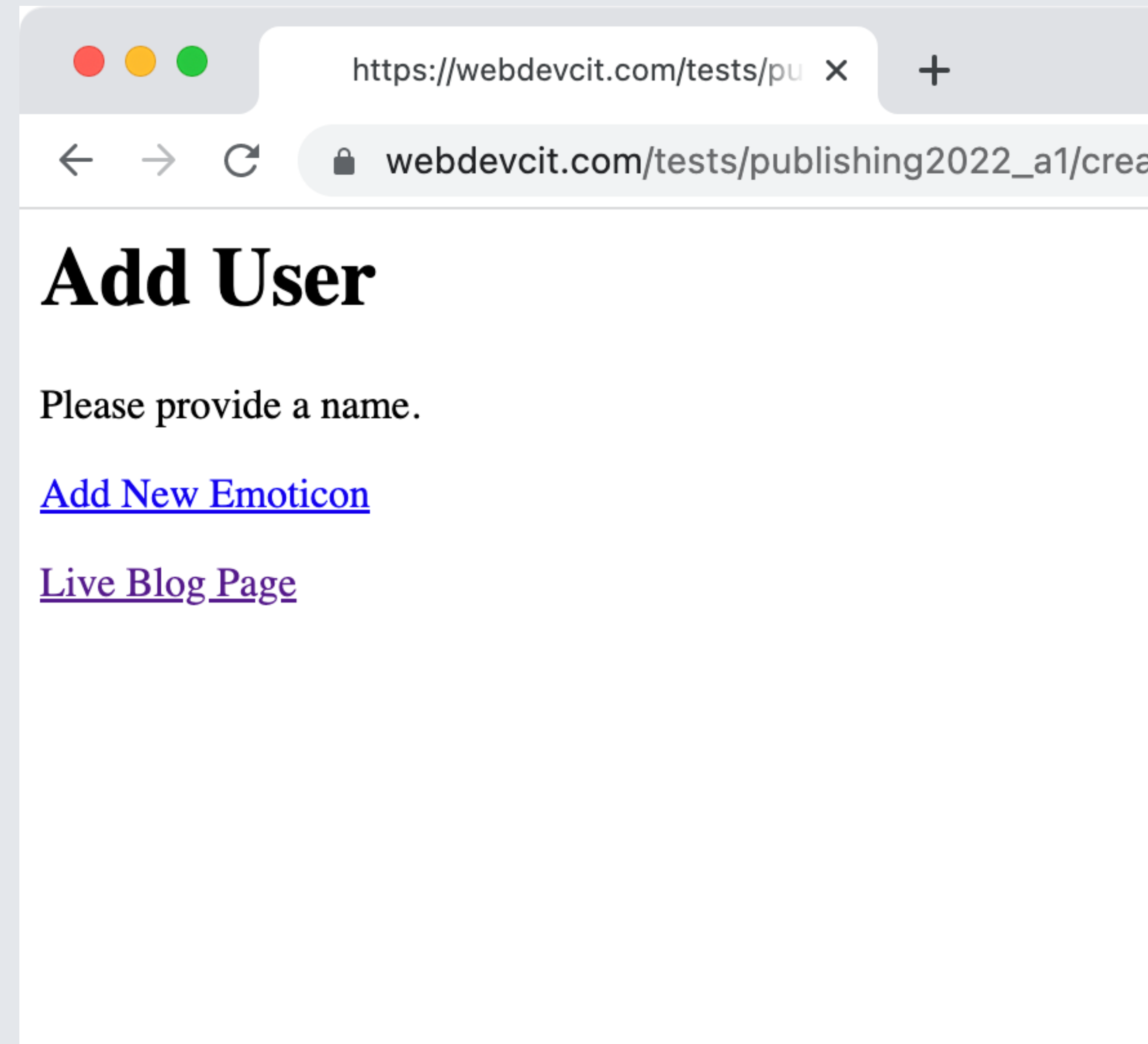
☐ 

[Live Blog Page](#)

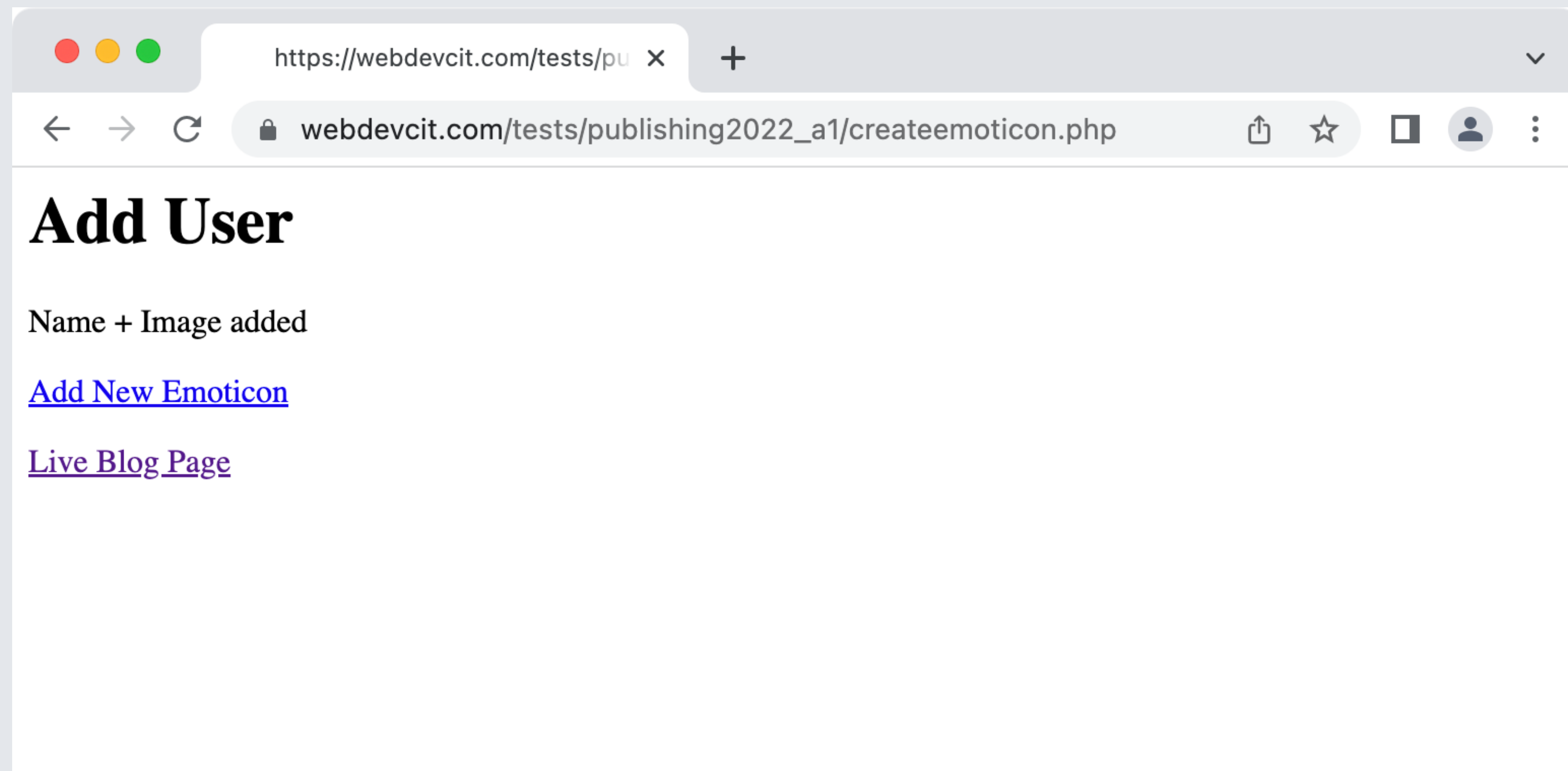
Your page should submit the user data (emotion name & image file name or id) to a PHP server-side script.

That PHP script should check for several possible situations.

I - if no name is present show an error message and do nothing.



2 - If a name is present store it in the users database along with the image file name. Confirm that it was added to the database successfully. You should also provide links to the main blog page, and to create a new emotion, on these pages.



3 - Let the user know if the data couldn't be saved in the database.
(i.e. there was some error carrying out the query).

If no avatar was selected you can store nothing (or some default value) in the database.

Any new emotions you create should now appear in the drop down menu in the main page(s)

Assignment


webdevcit.com/tests/publishing2022_a1/addemoticon.p


Create New Emoticon


Name

Choose Image

☐ No Image

☐ 

☐ 

☐ 

Chat

webdevcit.com/tests/publishing2022_a1/index.php

Add New Emoticon

Live Blog


Choose emotion:

☐ Angry ☐ Happy ☐ Puzzled ☐ Surprised ☒ Test

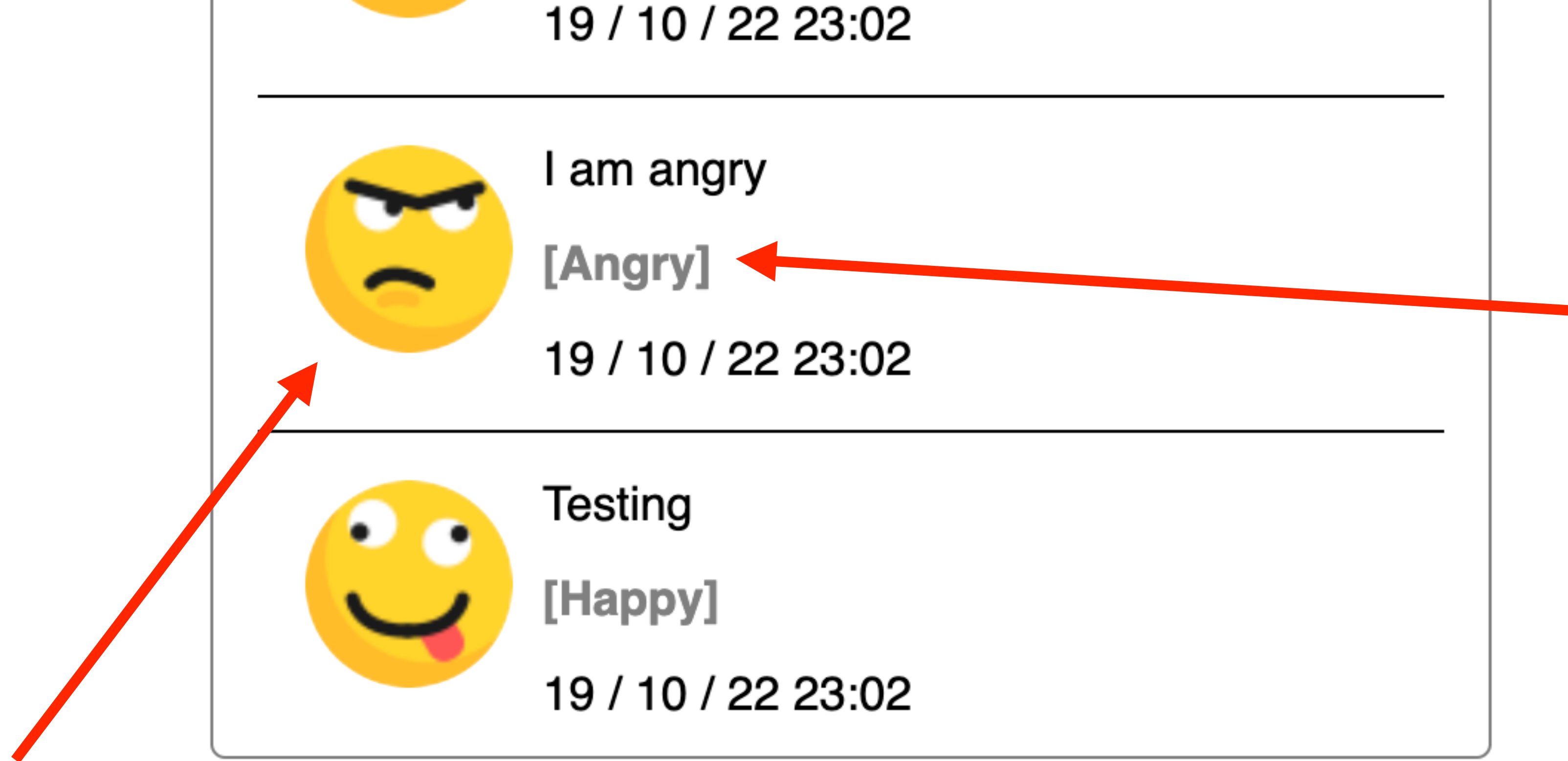
What is happening

[Puzzled]

19 / 10 / 22 23:35

 I'm not

[Happy]



When displaying a message you should also display the chosen emotion as an image (if present) and as text.

Submission Details

See provided movie for a better idea of the required functionality.

The look of the page is up to you (except where explicitly required by the brief).

All work must be your own.

No frameworks can be used.

You must submit your assignment code to Canvas and email me a link to your working pages on webdevcit.com with the subject

2022 AWPA Assignment I

NOTE: Do not use your root directory as other people could guess your URLs and interfere with the workings of your blog (adding messages, etc).

Instead, create a directory with an unguessable name and put them in there.

E.g. Don't use

<https://webdevcit.ie/2022/RXXXXXXXXX/index.html>

Instead use something like:

[https://webdevcit.ie/2022/RXXXXXXXXX/**al-xyx**/index.html](https://webdevcit.ie/2022/RXXXXXXXXX/al-xyx/index.html)

If you are confused by any aspect of this brief ask me to clarify any points you are unsure of.