

Assignment 03 - Form Validation/Regular Expressions

Read this entire homework description once through before proceeding. This assignment is to be completed individually. Work and ideas should not be shared with others.

Required Reading/Resources

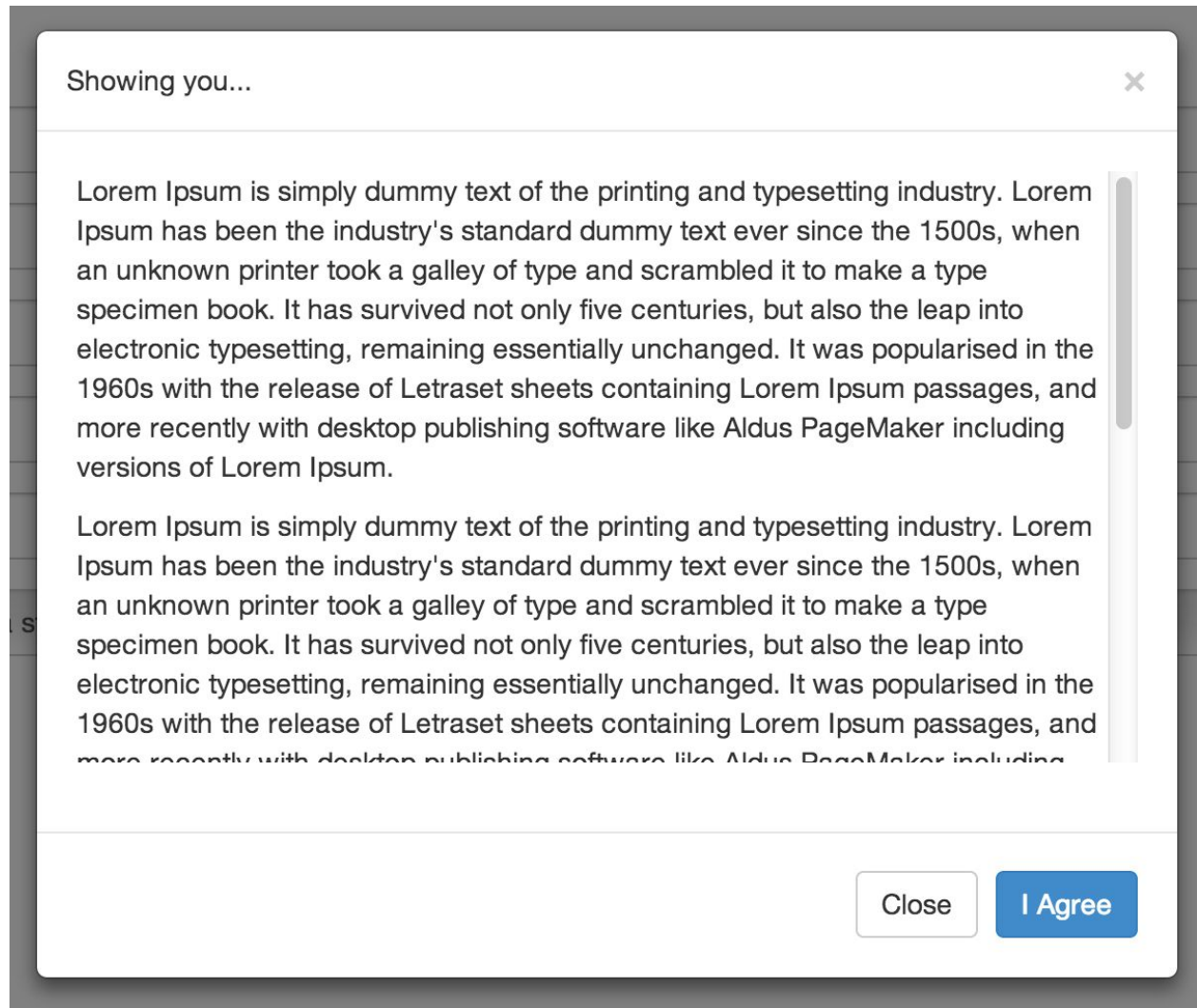
- Complete the JavaScript Tutorial
 - <https://www.codecademy.com/en/tracks/javascript>
- Complete the jQuery Tutorial
 - <https://www.codecademy.com/en/tracks/jquery>
- JavaScript RegExp Reference
 - http://www.w3schools.com/jsref/jsref_obj_regexp.asp
- Using Regular Expressions with Kevin Skoglund (Useful Regular Expressions)
 - <https://www.lynda.com/Regular-Expressions-tutorials/Using-Regular-Expressions/85870-2.html>

Task

My Form

First Name:	<input type="text"/>
Last Name:	<input type="text"/>
Email:	<input type="text"/>
Telephone:	<input type="text"/>
City:	<input type="text"/>
State:	<input type="text" value="(Choose a state)"/>

☐ I agree to terms [Show me!](#)



You will create:

- a working Bootstrap form with validation in your Cloud9 workspace
 - More details follow below
- a 5 minute video to quickly demo your Bootstrap form, and also to highlight which part of the JavaScript submit code pertains to each part of the form
 - Show that you can submit a form with valid data in it and it is successful
 - Then, for each form field:
 - Try to put some errors in and show how it does not allow you to submit it
 - Then immediately show which part of your JavaScript code is responsible for that

Creating the Bootstrap form should include the following fields:

- first name (single-line text box)
- last name (single-line text box)
- email address (single-line text box)
- phone number (single-line text box)
- city (single-line text box)
- state (select list, i.e. dropdown)
- zip code (single-line text box)
- agree to terms of service (checkbox)
 - This should be "disabled" when the page loads
- A link to view the terms of agreement
- submit button (type="submit")

Additional information regarding "agree to terms of service":

- The checkbox for "agree to terms of service" should be disabled when the page loads
- The "view terms" link should:
 - make a modal dialog box appear (see below)
 - enable the checkbox

The terms of service modal dialog box should contain:

- A header with an appropriate title for the dialog (see bootstrap examples)
- A few paragraphs of text that would represent some sort of agreement (the text itself doesn't matter, try getting some text at <http://www.lipsum.com/>)
- A footer with:
 - An "Accept" button that when clicked
 - checks the checkbox
 - closes the dialog
 - A "Close" button that when clicked
 - closes the dialog only

The form MUST validate on submit that all of the following is true:

- First Name, Last name - Only alphabetic characters starting with a single uppercase letter followed by up to ten lower case characters.
- Email Address - Uppercase letter/lowercase letter/any numeric digit/underscore (_) /dot (.) /hyphen (-) up to twenty characters, followed by an at sign (@), followed by uppercase letter/lowercase letter/any numeric digit/hyphen (-) up to twenty characters, followed by a dot(.), followed by a TLD uppercase letter/lowercase letter from 2 - 4 characters in length.
- Phone Number - a valid U.S. phone number using format (xxx) xxx-xxxx where x is any digit 0-9
- City - Only alphabetic characters starting with a single uppercase letter followed by up to twenty lower case characters AND only alphabetic characters starting with a single uppercase letter followed by up to ten lower case characters, followed by a space, followed by only alphabetic characters starting with a single uppercase letter followed by up to twenty lower case characters
- State - Verify a state is chosen from the dropdown select list
- Zip Code - required five digits (xxxxx) with optional dash four digits (-xxxx) where x is any digit 0-9
- "Agree to Terms of Service" - checkbox is checked.

If the form is NOT valid:

- Write any errors to the webpage above the form using HTML and jQuery.
- The form itself should not actually submit.

When the form is validated, it should successfully submit to "form.php". This should be a very simple PHP script that just outputs the date and time the form was submitted, and the form values submitted.

Extra credit for:

- 5% - Bootstrap/HTML/CSS - Make the terms of service agreement text fit into the modal dialog so that it scrolls itself inside the box, rather than causing the entire dialog to scroll on the page. That is, the dialog box should fit entirely within the browser, and only the terms text should scroll. The terms text must be long enough to require scrolling.
- 10% - Bootstrap - Use validation states (has-success and has-error) and icons (has-feedback) to show valid and invalid input.
- 10% - Regular Expressions - Allow the last name to be valid for additional name patterns. The following example names (and similar patterns should be allowed): McDonald, De La Hoya, O'Neil, Van Gogh.
- 10% - jQuery - Instead of writing all errors above the form, write the errors under each text field in the form using jQuery and HTML.
- 20% - reCAPTCHA - research and implement reCAPTCHA on form submission.

Restrictions

Perform this task while only using Bootstrap components, jQuery, and PHP. This assignment is to be completed individually. Work and ideas should not be shared with others.

Handing in Your Work

- Upload your video to YouTube or screencast.com (You may make the video "public" or "unlisted", but it cannot be set to "private".)
- In the Sakai project text box:
 - Submit the link to your video.
 - Submit the link to your workspace.
 - Submit the link to the page you created.
- Note: DO NOT make changes to your assignment after the deadline. If you want to continue experimenting, you should make a copy of your assignment in a different folder.

Grading

- 6% of total grade
- This assignment is to be completed individually. Work and ideas should not be shared with others.
- Grade will be reduced by 50% for any assignment submitted without a video or for a video that is not viewable.
- Grade will be reduced by 50% for workspace not shared correctly.
- Grade will be reduced by 25% for assignment not submitted correctly.
- Grade will be reduced by 10% for video not properly uploaded.
- Extra Credit
 - 5% - Bootstrap/HTML/CSS - Make the terms of service agreement text fit into the modal dialog so that it scrolls itself inside the box, rather than causing the entire

dialog to scroll on the page. That is, the dialog box should fit entirely within the browser, and only the terms text should scroll. The terms text must be long enough to require scrolling.

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