Lab 5 - APIs and Form Enhancement

100/100 Points

Attempt 1

Review Feedback
4/14/2024

Attempt 1 Score: **100/100**



Anonymous Grading: no

1 Attempt Allowed

4/21/2024

∨ Details

APIs and Form Enhancement

This lab demonstrates material from chapters 9 and 13 of the textbook.

After experiencing the power of jQuery, you have the opportunity to explore APIs and Form Enhancement to create professional interactive web pages.

Read through the jQuery UI Library Instructions (https://iu.instructure.com/courses/2214520/pages/jquery-ui-library-instructions) to get a good idea of the options available for this API.

Activities

For this lab, you will:

- 1. Create a new HTML file separate from previous labs. This allows you to keep all previous labs exactly as they were when you turned them in. Your new HTML page should contain as many page elements as you need to produce the required output.
- 2. Your page must use the same theme as your previous labs. Please describe your theme in an HTML comment. Each requirement must reflect your chosen theme.
- Create a form that is enhanced using the jQuery UI Library.Include the Google-hosted jQuery library before your JS file in your HTML.

```
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.1/jquery.min.js"></script>
```

Use a predefined theme or create your own. Your form will contain jQuery UI widgets and all fields will be styled and enhanced using the API.

- 4. Use either an <u>Accordion Widget</u> ⇒ (https://api.jqueryui.com/accordion/) or a <u>Tabs Widget</u> ⇒ (https://api.jqueryui.com/tabs/) as a larger navigation scheme. It can be used for factual information or for form elements.
- 5. Use at least one of the following jQuery UI Widgets.

 - Spinner Widget → (https://api.jqueryui.com/spinner/)

 - <u>Autocomplete Widget</u> → (https://api.jqueryui.com/autocomplete/) with data that is relevant to your theme

Documentation for each widget is available at https://api.jqueryui.com/ (https://api.jqueryui.com/).

- 6. Include at least three of the following input fields:
 - password field <input type="password">
 - checkboxes with multiple selections

- radio buttons with at least two mutually exclusive selections
- telephone field <input type="tel">
- email field <input type="email">
- text field <input type="text">
- 7. In your form, include the following:
 - <form method="get"> Do not use method="post".
 - submit button
 - reset button
- 8. Create an output area that is separate from the form on your page. This area should be blank until the user submits the form.
- 9. When the user submits the form, all form data should echo to the output area with labels. For example:

Name: Fred Flintstone

Address: 222 Rocky Way

Email: fred.flintstone@gmail.com

Rocks (checkboxes) granite pumice slate shale

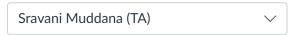
- 10. Data can be extracted from the form using JavaScript value, checked or selected properties as appropriate or jQuery .val() method, :checked filter or :selected filter. See Chapter 7 of the textbook for a list of jQuery form filters.
- 11. Use jQuery to validate at least one input field with a regular expression. Also use the placeholder attribute in the same field to show an example of valid input for the user.
- 12. Use at least one <u>form method</u> listed in Chapter 13 of the text to add functionality to your form [.focus() .blur() .select() .click()].
- 13. Use the jQuery .on() method with at least one <u>form event</u> listed in Chapter 13 of the text to add functionality to your form [blur focus change input keydown keypress].
- 14. Test your form in three different browsers. Leave a comment in the HTML describing the results of the test.

Notes:

- All <u>HTML should validate</u> ⇒ (https://validator.w3.org/).
- All <u>CSS should validate</u> ⇒ (https://jigsaw.w3.org/css-validator/).
- Use <u>The JS Console (https://iu.instructure.com/courses/2214520/pages/the-js-console)</u> to check for errors in your code. If your page crashes, there will be a 50% penalty.
- Each file must contain a header block comment.
- All CSS and JavaScript must be stored in external files.
- All form output must be labelled clearly in the output area.
- All requirements listed in the rubric below must be labelled clearly with comments in the JavaScript file.
- All output requirements must produce visible results on the page.

∨ View Rubric

Select Grader



Lab 5 - APIs & Form Enhancement

Criteria	Ratings	Pts
Requirements reflect		10 / 10 pts
the chosen theme.		

Lab 5 - APIs & Form Enhancement

Criteria	Ratings	Pts
view longer description		
The page contains a form that is enhanced using the jQuery UI library.		5 / 5 pts
The page contains either an Accordion Widget or a Tabs Widget. <u>view longer description</u>		10 / 10 pts
The form contains at least one jQuery UI input widget. view longer description		5 / 5 pts
The form contains at least three form fields for input.		10 / 10 pts
The form contains a reset button that resets all fields without reloading the page.		2 / 2 pts
The form contains a submit button that sends user input to the output area.		2 / 2 pts
The page contains a labelled output area.		2 / 2 pts
Upon form submission, all form data should accurately echo to the output area with labels for each field.		10 / 10 pts
All required form field values are extracted from the form and stored into variables.		8 / 8 pts

Lab 5 - APIs & Form Enhancement

Criteria	Ratings	Pts
A regular expression is		
used for validation of		
one form field. The		
placeholder attribute is		5 / 5 pts
used to show an		
example of valid input		
to the user.		
At least one form		
method is used.		5 / 5 pts
view longer description		
At least one form event		
is used.		5 / 5 pts
view longer description		
Page has been tested in		
three different		
browsers. HTML		2 / 2 pts
contains a comment		2 / 2 / 50
that tells the results of		
the test.		
CSS is stored in an		2 / 2 pts
external file.		_ / _ ptc
JavaScript is stored in		2 / 2 pts
an external file.		
Each requirement is		
labelled with comments.		10 / 10 pts
view longer description		
HTML validates at		2 / 2 pts
https://validator.w3.org/		2 / 2 μιs
All student files contain		
header block		3 / 3 pts
comments.		ο / ο ρισ
view longer description		
		Total Points: 100

https://cs.iupui.edu/~parmsing/n341/labfive/labfive.html

(https://iu.instructure.com/courses/2214520/modules/items/31320396) (https://iu.instructure.com/courses/2214520/modules/items/31320396)

(https://iu.instructure.com/courses/2214520/modules

>