Lab 3 - JavaScript Events

2/25/2024

97/100 Points

| Attempt 1 ⌄ | ◯ Review Feedback **2/25/2024** | Attempt 1 Score: **97/100** | 🗨 Add Comment |

Anonymous Grading: **no**

1 Attempt Allowed
3/3/2024

⌄ **Details**

JavaScript Events

This lab demonstrates material from chapter 6 of the textbook.

Now that you have mastered JavaScript expressions, functions, objects, decisions and loops, you have the opportunity to make your page more interactive for the user with JavaScript events.

Activities

For this lab, you will:

1. Create a new HTML file separate from previous labs. The page should contain as many page elements as you need to produce the required output. Nested page elements are required for this lab.
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.
3. Use an event listener without parameters to produce visible results on the page when the user clicks a page element.
4. Use an event listener with parameters to produce visible results on the page when the user clicks a page element.
5. Demonstrate Event Bubbling with nested HTML elements that have events bound to them.
6. Use the Event Object to create an event that responds by displaying the ID or class attribute of the page element that was clicked.
7. Use a method to stop the Event Bubbling. This event must be separate from requirement 5.
8. In JavaScript, create two focus/blur or focusin/focusout events that produce visible results on the page.
9. In JavaScript, create at least three different mouse events that produce visible results on the page.
10. In JavaScript, create at least two different keyboard events that produce visible results on the page.
11. In JavaScript, create two different form events that produce visible results on the page.
12. In JavaScript, demonstrate a mutation event that produces visible results on the page.
13. In JavaScript, create an event that alerts the user before leaving the page. This event must use beforeunload in JavaScript. While other methods work, they will not receive credit.

Notes:

- All **HTML should validate (https://validator.w3.org/)** .
- Use **the JS Console (https://iu.instructure.com/courses/2214520/pages/the-js-console)** 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 page output must be labelled clearly on the page. For example:

- Results of Event Bubbling: This **text** **will** change.
  - Stopping Event Bubbling: This text will change.
- All requirements listed in the rubric below **must be labelled clearly with comments** in the JavaScript file. For example:
  - `function doStuff( e ) {`   `// Req 6: Demonstrate use of the Event Object`
  - `function doMoreStuff( e ) {`   `// Req 7: Stop Event Bubbling`
- All output requirements must produce visible results on the page
- A page element cannot be "changed" to its original value. The new value must be different from the original one.

∨ View Rubric

Select Grader

Noran Abdel-Aziz (TA)   ∨

Lab 3 - JavaScript Events

Criteria	Ratings	Pts
Use an event listener without parameters. view longer description		5 / 5 pts
Use an event listener with parameters. view longer description		5 / 5 pts
Demonstrate event bubbling. view longer description	**Comments** Event bubbling is not demonstrated. In the only example of event bubbling, propagation is stopped. This counts as Req. 7. (-3)	3 / 6 pts
Use the Event Object to create an event that responds by telling exactly which page element was clicked.		6 / 6 pts
Use a method to stop the Event Bubbling. This event must be separate from events defined earlier.		6 / 6 pts
Create two focus/blur or focusin/focusout events. view longer description		6 / 6 pts
Create at least three different mouse events. view longer description		9 / 9 pts
Create two different keyboard events. view longer description		6 / 6 pts

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Criteria	Ratings	Pts
Create two different form events. view longer description		6 / 6 pts
Demonstrate a mutation event. view longer description		6 / 6 pts
Use JavaScript to create an event that alerts the user before leaving the page. Must use 'beforeunload' rather than 'click'.		10 / 10 pts
Each requirement is labelled with comments. view longer description		10 / 10 pts
HTML validates at https://validator.w3.org/		3 / 3 pts
HTML file contains a header block comment. view longer description		3 / 3 pts
JavaScript file contains a header block comment. view longer description		3 / 3 pts
Lab has a defined theme. view longer description		10 / 10 pts

Total Points: 97

https://cs.iupui.edu/~parmsing/n341/labthree/

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