Software Systems Development
Lab

Will start at 2.35PM

22/09/2020

A JavaScript library which simplifies programming and is easy to learn.

Among the most widely used JS libraries on the Internet

- jQuery syntax
- HTML & CSS manipulation through jQuery
- How to include it in a project?
- Online resources
- Demo of get and set methods
- Lab activity (graded)

jQuery Syntax

	JavaScript	jQuery

Hide an element with ID: "abcd" on click	```var a = document.getElementById("abcd");```
	
	 ```a.onClick(function () { a.hidden = true; });```
		```$("#abcd").click(function () { $(this).hide(); });```

jQuery Syntax

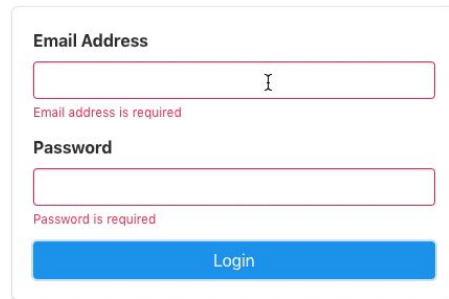|	JavaScript	jQuery
Hide an element with ID: "abcd" on click	```var a = document.getElementById("abcd"); a.onClick(function () { a.hidden = true; });```	`$("#abcd").click(function () { $(this).hide(); });`

jQuery sign

action

selector

jQuery HTML, CSS Manipulation

- DOM structure and content manipulation
  - Get or set content or HTML of element
  - Add or remove content from element

- Style manipulation
  - Add and remove class from element
  - Get and set style attributes of element
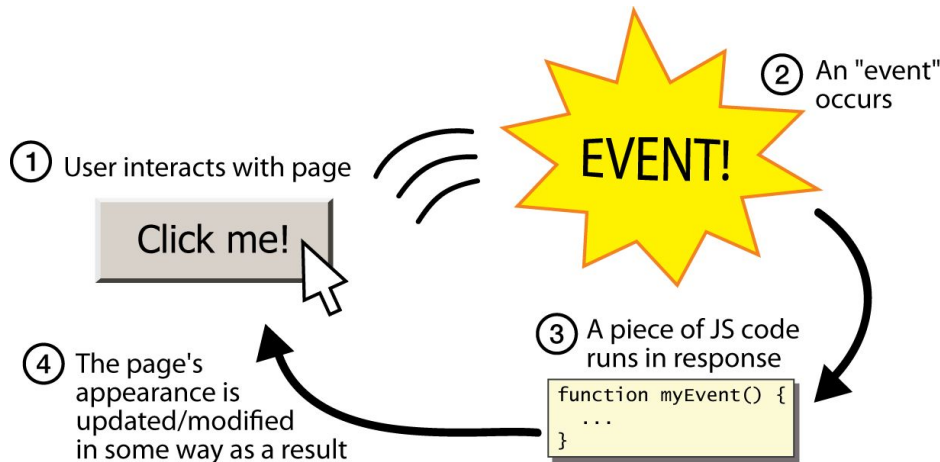
Examples

Invalid input warning

Drop-down menu

jQuery Events

- Events are different visitors' actions that a page can respond to
  - Mouse events
    - click, dbclick, mouseenter, mouseleave
  - Keyboard events
    - keydown, keyup, keypress
  - Form events
    - submit, change, focus, blur
  - Document/window events
    - load, resize, scroll, unload

② An "event" occurs

① User interacts with page

Click me!

EVENT!

③ A piece of JS code runs in response

```
function myEvent() {
    ...
}
```

④ The page's appearance is updated/modified in some way as a result

How to include jQuery library in my project?

- CDN

```
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js">

</script>
```

- Download jQuery file and include it using script tag like above.

Online Resources

- [W3Schools Online Web Tutorials](#)

- [freeCodeCamp.org: Learn to code at home](#)

- [jQuery API Documentation](#)