jQuery

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jQuery

- jQuery is a lightweight Javascript library which is blazing fast and concise. This library was created by John Resig in 2006 and
- jQuery has been designed to simplify HTML DOM tree traversal and manipulation, as well as event handling, CSS animation, and Ajax.
- jQuery is cross-platform.
- jQuery means "write less do more".

jQuery has been developed with the following principles:

- **Separation of JavaScript and HTML**, which encourages developers to completely separate JavaScript code from HTML markup.
- **Brevity and clarity** promotes features like chainable functions and shorthand function names.
- **Eliminates of cross-browser incompatibilities,** so developers does not need to worry about browser compatibility while writing code using jQuery library.
- **Extensibility**, which means new events, elements, and methods can be easily added in jQuery library and then reused as a plugin.

- jQuery is a lightweight, "write less, do more", JavaScript library.
- jQuery became popular as this simplifies the process of working with HTML documents, handling events, animating elements, and making AJAX calls.
  - **DOM Manipulation**
  - **Event Handling**
  - **Effects and Animations**
  - **AJAX (Asynchronous JavaScript and XML):**
  - **DOM Traversal**
  - **jQuery UI**
  - **Plugins**
  - **Deferred and Promises**
  - **Event Delegation**
  - **Cross-Browser Compatibility**
  - **Responsive Web Design**
  - **Form Validation**
  - **Dynamic Content Loading**

jQuery Selectors

- $().
- Element Selector: $("element")
- Class Selector: $(".class")
- ID Selector: $("#id")
- Attribute Selector: $("[attribute]")
- Multiple Elements Selector: $("element1, element2")
- Descendant Selector: $("parent descendant")
- Child Selector: $("parent > child")
- Next Adjacent Selector: $("prev + next")
- Next Siblings Selector: $("prev ~ siblings")

- :first Selector: $("element:first")
- :last Selector: $("element:last")
- :even Selector: $("element:even")
- :odd Selector: $("element:odd")
- :eq(n) Selector: $("element:eq(n)")
- :gt(n) Selector: $("element:gt(n)")
- :lt(n) Selector: $("element:lt(n)")
- :not(selector) Selector: $("element:not(selector)")
- :has(selector) Selector: $("element:has(selector)")
- :contains(text) Selector: $("element:contains(text)")
- :empty Selector: $("element:empty")
- :visible Selector: $("element:visible")
- :hidden Selector: $("element:hidden")
- :animated Selector: $("element:animated")

jQuery DOM Manipulation operations

- Extract the content of an element

- Change the content of an element

- Adding a child element under an existing element

- Adding a parent element above an existing element

- Adding an element before or after an existing element

- Replace an existing element with another element

- Delete an existing element

- Wrapping content with-in an element

jQuery Dimension Methods

- **width()** - This method gets or sets the width of an element

- **height()** - This method gets or sets the height of an element

- **innerWidth()** - This method gets or sets the inner width of an element.

- **innerHeight()** - This method gets or sets the inner height of an element.

- **outerWidth()** - This method gets or sets the outer width of an element.

- **outerHeight()** This method gets or sets the outer height of an element.