



ELEVO LABS

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Course Overview

Course Details

Course Name: jQuery: The Practical Guide to DOM Manipulation & Animation

Instructor: Linda Wu

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Price: 2500 INR

Duration: 1 Week

Modules: 9

Language: English, Hindi

Level: Beginner, Expert

Certifications: Yes

Course Description

Master jQuery, the fast, small, and feature-rich JavaScript library that fundamentally changed how millions of developers write JavaScript. While modern frameworks exist, understanding jQuery is still a valuable skill for maintaining countless existing websites and for its straightforward approach to common web development tasks.

This course starts with the basics: how to include jQuery and use its powerful selector engine to find any element on the page with ease. You will learn how to traverse the DOM tree, manipulate content and attributes, and modify CSS styles dynamically. We'll cover jQuery's elegant event handling system, making it simple to respond to user interactions like clicks,

hovers, and form submissions.

You will also learn how to create beautiful animations and effects with just a few lines of code. The course includes extensive coverage of how to leverage a wide array of powerful **jQuery** plugins to add complex functionalities like data tables, date pickers, rich text editors, and more with minimal effort. By the end, you'll be able to add rich interactivity to any website using jQuery.

What You'll Learn:

- The powerful jQuery selector engine to find any element.
- Traversing and manipulating the DOM with ease.
- Handling user events like clicks, keyboard input, and form submissions.
- Creating animations and custom effects.
- Working extensively with popular jQuery plugins including: DataTables, Select2, jQuery Validation, Slick Carousel, Chosen, Moment.js, FullCalendar, Dropify & Dropzone, Toastr, SweetAlert, DateRangePicker, Parsley.js, Tagify, Tooltipster, and CKEditor.
- Best practices for using jQuery in modern web development.

Who Is This Course For?

This course is perfect for beginners who want a simple introduction to JavaScript interactivity. It's also for developers who need to work on or maintain existing projects that use jQuery. A basic understanding of HTML and CSS is required.

Prerequisites:

- **HTML Fundamental Knowledge:** A solid understanding of HTML structure, elements, and attributes is essential.
- **CSS Fundamental Knowledge:** Basic familiarity with CSS syntax and how to apply styles to HTML elements.
- **Basic JavaScript Knowledge (Recommended):** While jQuery simplifies many tasks, a foundational understanding of JavaScript concepts (variables, functions, basic DOM) will enhance your learning.
- **A Computer/Laptop:** You'll need a working computer (Windows, macOS, or Linux) to write and test your code.
- **A Web Browser:** Any modern web browser (Chrome, Firefox, Edge) for development and testing.

Includes multiple hands-on projects, such as an interactive image gallery and a dynamic to-do list. Certificate of completion available. Available in English and Hindi.

Course Curriculum Details

Module 1: Module 1: Introduction to jQuery

5 Lessons

1. 1. What is jQuery and Why is it Still Relevant Today? **15min**
2. 2. Including jQuery in Your Projects (CDN vs. Local File) **15min**
3. 3. The Document Ready Function: Ensuring DOM is Loaded **20min**
4. 4. The jQuery Object and Chaining **15min**
5. 5. Recap & Practical Task: Set Up Your First jQuery Project **25min**

Module 2: Module 2: Selectors & DOM Traversal

7 Lessons

1. 6. jQuery's Powerful Selector Engine (CSS Selectors) **30min**
2. 7. Custom jQuery Selectors (e.g., `:first`, `:last`, `:even`, `:odd`) **20min**
3. 8. Filtering Selections (`.filter()`, `.not()`, `.has()`, `.is()`) **25min**
4. 9. Traversing the DOM: Parents (`.parent()`, `.parents()`, `.closest()`) **30min**
5. 10. Traversing the DOM: Children (`.children()`, `.find()`) **25min**
6. 11. Traversing the DOM: Siblings (`.siblings()`, `.next()`, `.prev()`) **25min**

7. 12. Recap & Practical Task: Select and Navigate a Complex Page Structure **40min**

Module 3: Module 3: DOM Manipulation & Styling

9 Lessons

1. 13. Getting and Setting Content: ``.html()`, `.text()`, `.val()`` 25min`

2. 14. Working with Attributes: ``.attr()`, `.prop()`, `.removeAttr()`` 20min`

3. 15. Adding Elements: ``.append()`, `.prepend()`, `.after()`, `.before()`` 25min`

4. 16. Removing Elements: ``.remove()`, `.empty()`` 20min`

5. 17. Replacing and Cloning Elements (``.replaceWith()`, `.clone()```) **20min**

6. 18. Manipulating CSS: ``.css()`` Method 25min`

7. 19. Adding and Removing CSS Classes: ``.addClass()`, `.removeClass()`,
`.toggleClass()`` 25min`

8. 20. Getting Element Dimensions (``.width()`, `.height()`, `.innerWidth()`, etc.) 20min`

9. 21. Recap & Practical Task: Build a Dynamic Content Tab Interface **50min**

Module 4: Module 4: Event Handling with jQuery

8 Lessons

1. 22. Attaching Event Handlers: ``.click()`, `.hover()`, `.on()`` 25min`

2. 23. Mouse Events (``.mousedown`, `.mouseup`, `.mousemove`, `.mouseenter`,
`.mouseleave``) 25min`

3. 24. Keyboard Events (``.keydown`, `.keyup`, `.keypress``) 20min`

4. 25. Form Events (``submit``, ``change``, ``focus``, ``blur``) **25min**

5. 26. Event Object and its Properties (``event.target``, ``event.preventDefault()``, ``event.stopPropagation()``) **20min**

6. 27. Event Delegation: The Power of ``on()`` with Selectors **30min**

7. 28. Removing Event Handlers (``off()``) **15min**

8. 29. Recap & Practical Task: Create an Interactive Form with Real-time Feedback **45min**

Module 5: Module 5: Effects and Animations

7 Lessons

1. 30. Basic Effects: ``show()``, ``hide()``, ``toggle()`` **25min**

2. 31. Fade Effects: ``fadeIn()``, ``fadeOut()``, ``fadeToggle()``, ``fadeTo()`` **25min**

3. 32. Sliding Effects: ``slideDown()``, ``slideUp()``, ``slideToggle()`` **20min**

4. 33. Custom Animations with ``animate()`` (Properties, Duration, Easing, Callbacks) **30min**

5. 34. Chaining Animations and Delays **20min**

6. 35. Stopping Animations (``stop()``) **15min**

7. 36. Recap & Practical Task: Build a Dynamic Accordion Menu **40min**

Module 6: Module 6: Extensive jQuery Plugin Integration

21 Lessons

1. 37. Understanding jQuery Plugins and Their Ecosystem **20min**

2. 38. Integrating jQuery UI: Basic Components (e.g., Draggable, Droppable, Resizable) **30min**

3. 39. Working with DataTables.js: Setup and Basic Features **40min**

4. 40. DataTables.js: Advanced Features (Sorting, Filtering, Pagination, AJAX Loading) **45min**

5. 41. Implementing Select2 for Enhanced Select Boxes **30min**

6. 42. Integrating jQuery Validation Plugin for Robust Forms **35min**

7. 43. Using Slick Carousel for Responsive Image Sliders **30min**

8. 44. Implementing Chosen for User-Friendly Select Fields **25min**

9. 45. Working with Moment.js for Date and Time Manipulation **30min**

10. 46. Integrating FullCalendar for Event Display **40min**

11. 47. Using Dropify for Custom File Uploads **25min**

12. 48. Implementing Dropzone.js for Drag-and-Drop File Uploads **30min**

13. 49. Integrating Toastr for Non-Blocking Notifications **20min**

14. 50. Using SweetAlert for Beautiful Custom Alerts **25min**

15. 51. Implementing DateRangePicker for Date Selection **30min**

16. 52. Client-Side Validation with Parsley.js **30min**

17. 53. Using Tagify for Input Tagging **25min**

18. 54. Implementing Tooltipster for Advanced Tooltips **20min**

19. 55. Integrating CKEditor for Rich Text Editing **35min**

20. 56. Common Plugin Customization and Options **25min**

21. 57. Recap & Practical Task: Build a Dynamic Dashboard Section with Multiple Plugins **1hr 30min**

Module 7: Module 7: Advanced Concepts & Best Practices

7 Lessons

1. 58. jQuery `noConflict()` for Avoiding Conflicts **15min**

2. 59. Performance Best Practices with jQuery (Caching Selectors, Event Delegation) **25min**

3. 60. Using `$.each()` for Iteration **15min**

4. 61. Introduction to `$.Deferred()` (for custom Promise-like objects) **25min**

5. 62. jQuery vs. Modern JavaScript: When to Use Which **20min**

6. 63. Debugging jQuery Code in Browser DevTools **20min**

7. 64. Recap & Practical Task: Optimize an Existing jQuery Script **40min**

Module 8: Module 8: Project 1 - Interactive Image Gallery with Filtering

5 Lessons

1. 65. Project Overview and Planning HTML Structure **30min**

2. 66. Loading Images Dynamically and Displaying Them (Conceptual) **1hr**

3. 67. Implementing Image Filtering and Sorting **1hr**

4. 68. Adding Lightbox/Modal Functionality for Image Display **45min**

5. 69. Recap & Practical Task: Complete and Refine the Image Gallery **1hr**

Module 9: Module 9: Project 2 - Dynamic To-Do List Application

7 Lessons

1. 70. Project Overview and HTML/CSS Setup for To-Do List **30min**

2. 71. Adding New To-Do Items Dynamically **1hr**

3. 72. Marking Items as Complete (Toggle Class) **45min**

4. 73. Deleting To-Do Items and Confirmations **45min**

5. 74. Persisting To-Do Items (Using Local Storage) **1hr**

6. 75. Final Review and Project Submission **30min**

7. 76. Recap & Course Conclusion **40min**

This curriculum is subject to minor adjustments to ensure the most up-to-date and effective learning experience.