Advanced JavaScript: DOM Manipulation and Events (Level 3)

Course Objectives

This course focuses on advanced JavaScript concepts, including DOM manipulation, object-oriented programming (OOP), and event handling. By the end of the course, students will be able to build fully interactive, dynamic web pages using JavaScript's powerful features.

Target Audience:

- Web developers
- Students with basic JavaScript knowledge
- Developers building interactive web applications

About the Course

Number of Hours: 20

Mode of Study: In-person (3 Days) or Online (2 Weeks, 10 h/w)

Location: United Kingdom, London 🇬🇧

Pre-requisite: HTML, CSS, and basics of JavaScript programming knowledge

are required for this training

Course Description

- **User-Defined Objects:** Create and manipulate objects using constructor functions and object literals. Learn about object methods and using this within objects.
- **JavaScript OOP:** Understand the core OOP concepts in JS, such as classes, encapsulation, inheritance, and prototypal inheritance.
- **Browser Object Model (BOM):** Explore the components of the BOM, including the window, location, navigator objects, and methods like setTimeout(), setInterval(), and timers.
- **Document Object Model (DOM):** Learn how to access and modify DOM elements using getElementById(), querySelector(), and other methods.

- **Advanced DOM Access**: Create, remove, and manipulate HTML elements dynamically using querySelector() and querySelectorAll() (ES5).
- **Event Registration and Handling:** Master event handling using addEventListener(), mouse events, and keyboard events.
- **Advanced Event Handling:** Event bubbling, capturing, stopping propagation, and event delegation.
- **Practical Event Handling**: Learn how to create interactive features like image previews and slideshows.

Learning Outcomes:

By the end of the training, you will be able to:

- Create reusable JavaScript functions and handle scope/closures
- Build interactive web pages by manipulating the DOM and using event listeners
- Develop JavaScript applications using object-oriented principles

Equipment:

You only need a personal laptop with a Text editor (VS Code, Sublime) and a web Browser (Chrome).

Why Us?

- ✓ World-class training materials developed by researchers and professionals.
- ✓ Value for money training
- ✓ Courses are based on hands-on activities and real case-studies
- ✓ Educators with over a decade of experience in industry
- ✓ Pre and post training support so you feel supported in your journey.

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