

Week 2 - Javascript Fundamentals

Learning Objectives

By the end of Week 2, students will be able to:

- Understand the core concepts of **JavaScript (ES6+)**.
 - Manipulate the DOM using JavaScript.
 - Work with variables, functions, arrays, objects, and loops.
 - Handle events and perform basic form validations.
 - Use `fetch()` API for simple data retrieval.
 - Strengthen problem-solving skills with coding exercises.
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Weekly To-Do

- **JavaScript Basics**

Learn variables (`let` , `const`), data types, operators, conditionals, loops, and functions.

- **Arrays & Objects**

Work with arrays and objects, including iteration methods (`map` , `filter` , `forEach`).

- **DOM Manipulation**

Select and modify elements, handle events like clicks and keypresses.

- **Form Handling**

Perform basic validation and dynamic updates.

- **Fetch API**

Make a request to a public API and display results dynamically.

- **Problem Solving**

Practice JavaScript exercises (basic algorithms, small coding challenges).

- **Progress Sharing**

Share project learnings and GitHub repo link with a LinkedIn post.

Tools & Technologies

- **Language:** JavaScript (ES6+)
 - **Editor:** VS Code
 - **Version Control:** Git, GitHub
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Week 2 Project – *Interactive To-Do List*

- Build a **To-Do List App** that allows users to:
 - Add new tasks.
 - Mark tasks as complete.
 - Delete tasks.
 - Store tasks in **localStorage** so they persist after reload.
- Enhance UI with basic CSS styling.

Deliverables:

- GitHub repo link
 - Live deployment (GitHub Pages)
 - LinkedIn post showcasing project features
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Suggested Resources

- [Js W3](#)
- [JS Crash Course](#)
- [DOM manipulation](#)