Welcome to **Day 6 of Week 1** — today we level up from the console to the **real browser screen** 🌐✨

You’ll learn to **manipulate HTML using JavaScript**, so you can build dynamic web pages that update, react, and respond — just like real apps!

**🧠 Day 6 Focus: DOM Manipulation**

| **Concept** | **What It Means** | **Use Case** |
| --- | --- | --- |
| DOM | Structure of your webpage | JavaScript can change HTML/CSS |
| document.querySelector() | Select elements | Like picking an element to update |
| innerHTML / textContent | Change content inside an element | Show API data or results |
| createElement() | Add new HTML from JS | Create cards, posts, etc. |
| appendChild() | Add it to the page | Actually insert into DOM |

**👀 1. What is the DOM?**

DOM = **Document Object Model**

JavaScript sees your HTML like a **tree** and allows you to select, update, or add elements dynamically.

**📄 2. Sample HTML Page (base for JS work)**

html

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<!DOCTYPE html>

<html>

<head>

<title>Day 6 - DOM</title>

</head>

<body>

<h1>Fake Users</h1>

<ul id="userList"></ul>

<script src="script.js"></script>

</body>

</html>

📝 Save this as index.html

**💻 3. Your JavaScript File (script.js)**

Here’s how to **fetch API data and show on the page**:

js

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async function loadUsers() {

const response = await fetch("https://jsonplaceholder.typicode.com/users");

const users = await response.json();

const list = document.querySelector("#userList");

users.slice(0, 5).forEach(user => {

const li = document.createElement("li");

li.textContent = `👤 ${user.name} - 📧 ${user.email}`;

list.appendChild(li);

});

}

loadUsers();

✅ This script does:

* Fetches real user data
* Creates <li> elements for each user
* Adds them to the <ul id="userList"> in your HTML

**🧪 Mini DOM Challenge (Your Turn!)**

🎯 Do this:

1. Create an HTML file with this structure:

html

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<h2>Top 5 Posts</h2>

<div id="postContainer"></div>

1. In JS (script.js):

* Fetch posts from: https://jsonplaceholder.typicode.com/posts
* Show the first 5 post titles in <h3> tags inside postContainer

**✅ Bonus: Basic CSS for Styling**

Add this to your HTML for nice look:

html

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<style>

body { font-family: sans-serif; background: #f2f2f2; padding: 20px; }

h3 { background: white; padding: 10px; margin: 10px 0; border-radius: 8px; }

</style>

**🏁 Summary of Day 6**

| **Skill** | **Use** |
| --- | --- |
| Select elements | document.querySelector() |
| Create HTML elements | document.createElement() |
| Change content | element.textContent or innerHTML |
| Add to page | appendChild() |