**🧠 Day 7 Theme: Event Handling in JavaScript**

| **Concept** | **What It Means** | **Real Use** |
| --- | --- | --- |
| onclick, addEventListener() | Detect user actions | Button clicks, form submission |
| input, change events | Respond to typing | Live search, filters |
| Access values | Grab what user typed | Chat input, login form |
| Dynamic updates | Update page based on input | Show result, update card |

**🔧 1. Let’s Start With a Simple Button Click**

**🧪 HTML:**

html

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<button id="btn">Click Me</button>

<p id="output"></p>

**🧪 JS:**

js

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document.getElementById("btn").addEventListener("click", () => {

document.getElementById("output").textContent = "You clicked the button!";

});

✅ Now clicking the button changes the text in <p>

**✍️ 2. Reading User Input (Like Chat, Forms)**

**🧪 HTML:**

html

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<input id="nameInput" placeholder="Enter your name">

<button id="greetBtn">Greet Me</button>

<p id="greeting"></p>

**🧪 JS:**

js

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document.getElementById("greetBtn").addEventListener("click", () => {

const name = document.getElementById("nameInput").value;

document.getElementById("greeting").textContent = `Namaste, ${name} 👋`;

});

✅ Now when you type your name and click the button — it greets you! 🌟

**⚡ 3. Live Input Event (Like Google Search Typing)**

**🧪 HTML:**

html

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<input id="liveInput" placeholder="Type something...">

<p id="liveOutput"></p>

**🧪 JS:**

js

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document.getElementById("liveInput").addEventListener("input", (e) => {

document.getElementById("liveOutput").textContent = e.target.value;

});

✅ Whatever you type, it **shows live below** — like real-time AI input feedback!

**🎯 Day 7 Mini Challenge (Your Turn)**

Create a mini interactive app:

“**Voting Eligibility Checker**”

**🧪 HTML:**

html

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<h2>Voting Eligibility</h2>

<input id="ageInput" placeholder="Enter your age">

<button id="checkBtn">Check</button>

<p id="voteResult"></p>

**✅ JS Requirements:**

* On button click, check if age >= 18
* If yes → “You can vote 🗳️”
* If not → “You cannot vote 😞”

**🏁 Summary of Day 7:**

| **Event** | **Trigger** | **Usage** |
| --- | --- | --- |
| click | Button clicked | Actions, AI query |
| input | Typing in input box | Live search |
| .value | Get user input | Chatbot, forms |
| .textContent | Show result | Dynamic updates |