🌱 **Digital Excellence Program – Class Plan** **Topic: Event Handling in JS DOM & Dynamic Content Updates**

⏱ **Time & Activity Breakdown**

| **Time Slot** | **Activity** | **Description** |
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| First 5 minutes | Warm-up & Reflection | Ask: “Have you ever clicked a button and nothing happened?”  Relate it to how HTML alone can't handle interactions, but JS brings life to web pages. |
| 40 minutes | Core Concept Explanation – I | **Topic: Event Handling in JS DOM**  Subtopics:  ▫ Understanding the DOM Tree  ▫ addEventListener() syntax and usage  ▫ Event object & bubbling/capturing  ▫ Common events: click, keyup, submit, mouseover  ▫ Removing event listeners |
| 10 minutes | Interactive Activity | Build a basic to-do list item with a “Delete” button. Each button removes its respective list item.  Focus: adding listeners and accessing event targets. |
| 45 minutes | Core Concept Explanation – II | **Topic: DOM Dynamic Content Updates**  Subtopics:  ▫ document.createElement() & appendChild()  ▫ innerHTML vs textContent  ▫ removeChild()  ▫ Template rendering from arrays  ▫ Real-time form input updates  ▫ Efficient DOM updates using fragment or minimal reflows |
| 15–30 minutes | Doubt Solving Session – I | Students build a comment section:  – Add new comments dynamically  – Delete comments  – Live character counter for inputs  Mentors help debug, explain bubbling, and guide on preventDefault() where needed. |
| 5 minutes | Class Wrap-up | Recap:  – Event handling connects user actions to responses  – Dynamic updates let us modify the page in real time  Ask 2–3 students to share what they found most surprising.  Tease next topic: “Event Delegation & Performance Optimizations.” |

📘 **References & Notes**

* [MDN Web Docs – Event Reference](https://developer.mozilla.org/en-US/docs/Web/Events)
* JavaScript.info – DOM Events
* [Frontend Masters – JS DOM Course (Optional Deep Dive)](https://frontendmasters.com/)

✅ **5 Checklist Questions to Assess Understanding**

1. What method is used to attach an event listener to an element?
2. What is event bubbling and how can it affect nested elements?
3. How would you add a new DOM element on a button click?
4. What’s the difference between innerHTML and textContent?
5. Why should you consider using event delegation in dynamic lists?