Internship Report

Program: Frontend Development Internship

Organization: Prosensia Intern: Hamza Rafique **Date**: 21 July 2025

Week 5 - Day 1

Topic: Event Handling in JavaScript



***** Topics Covered:

1. Introduction to Events in JavaScript

- o What are browser events?
- o Common types of events: click, mouseover, keydown, submit, etc.

2. Event Listeners

- addEventListener() method
- Removing event listeners with removeEventListener()

3. Event Object

 Accessing event metadata using the event parameter (event.target, event.type, etc.)

4. Types of Event Handlers

- Inline handlers (not recommended)
- o DOM property handlers: element.onclick = function() {}
- o addEventListener method: preferred and modern approach

5. Event Bubbling and Capturing

- Understanding the flow of events in the DOM tree
- Use of event.stopPropagation() and event.preventDefault()

6. Practical Examples

- Button click events
- Form submission handling

Keyboard input tracking

? Common Questions:

- What is the difference between onclick and addEventListener?
- How can we stop a form from refreshing the page on submit?
- How to handle multiple events on the same element?

// Issues Faced:

- Initially used inline event handlers which caused unexpected behavior.
- Event bubbling led to multiple functions being triggered unintentionally.

Resolutions:

- Shifted to using addEventListener for cleaner and modular code.
- Used event.stopPropagation() to control bubbling.
- Used preventDefault() to handle form events without reloading.

Q General Observations:

- Event handling adds interactivity to static pages.
- Understanding the event flow is key to debugging complex interactions.

Suggested Improvements:

- Practice more with nested DOM elements and complex event structures.
- Explore **event delegation** to handle events on dynamically added elements.
- Work on keyboard accessibility events for better user experience.