Day 6 – Week 4 Internship Report

Company: ProSensia Name: Hamza Rafique

Topic Covered: DOM Manipulation – getElementById, querySelector, innerHTML

Date: 19 July 2025



Q Topics Learned

1. getElementById()

- This method is used to select a single element by its ID.
- Returns the first element with the matching ID.
- Example:

javascript

CopyEdit

const title = document.getElementById("main-heading");

title.style.color = "blue";

2. querySelector()

- More powerful and flexible than getElementById().
- Can use **CSS selectors** (#id, .class, tag, etc.)
- Returns the **first** matching element.
- Example:

javascript

CopyEdit

const paragraph = document.querySelector(".intro");

paragraph.textContent = "Updated using querySelector!";

3. innerHTML

- Used to **get or set** the HTML content inside an element.
- Can inject entire HTML structures (not just text).

Example:

javascript

CopyEdit

document.getElementById("container").innerHTML = "New Content";

Practical Learning

- Implemented dynamic updates to webpage content using DOM methods.
- Understood the difference between innerHTML and textContent.
- Practiced selecting and modifying HTML elements using both ID and CSS selectors.

Key Takeaways

- DOM manipulation is essential for creating interactive web pages.
- getElementById is faster, but querySelector is more versatile.
- innerHTML allows inserting complex HTML, but must be used carefully due to security (XSS) risks.