

## Day 80

### **Topic: XSS and CSRF**

**Objective:** To study Cross-Site Scripting (XSS) and Cross-Site Request Forgery (CSRF).

#### **Theoretical Concepts:**

XSS allows attackers to inject malicious JavaScript into web pages viewed by other users. We differentiated between Stored XSS (persistent), Reflected XSS (non-persistent), and DOM-based XSS. CSRF forces an end user to execute unwanted actions on a web application in which they are currently authenticated.

#### **Practical Work:**

On the lab application: 1. Reflected XSS: We input a script `<script>alert('Hacked')</script>` into a search box, causing a popup to appear. 2. Stored XSS: We posted a comment containing a script that stole the session cookie of anyone who viewed the comment section. 3. We analyzed the HTTP headers to see how "SameSite" cookie attributes help prevent CSRF.

**Tools Used:** Burp Suite, Browser DevTools.

**Outcome:** Understanding how client-side scripts can be weaponized to steal sessions.