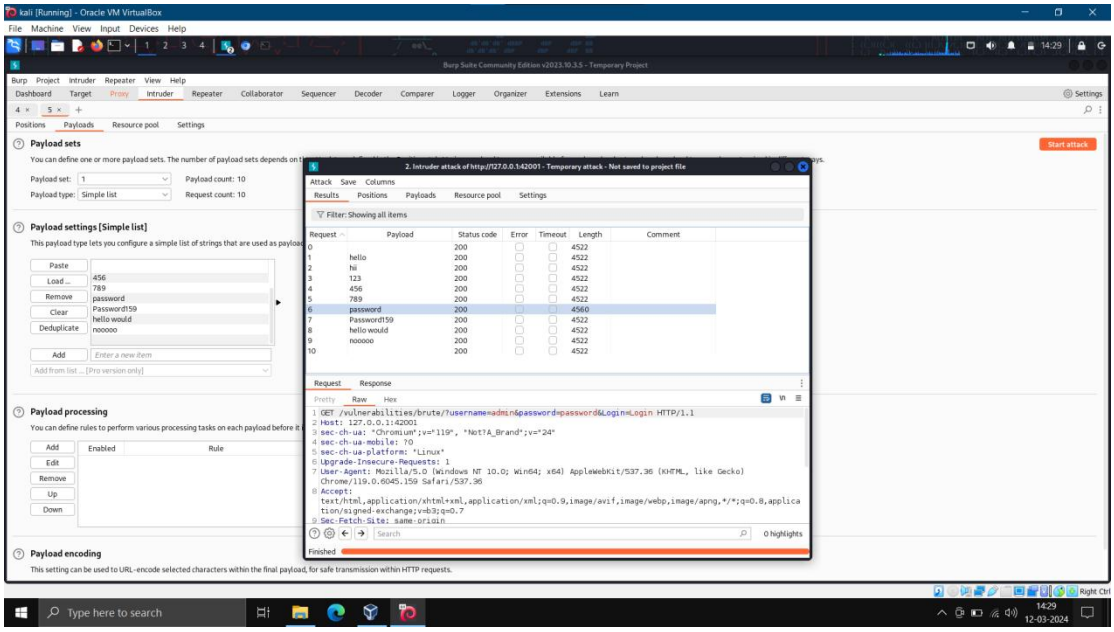
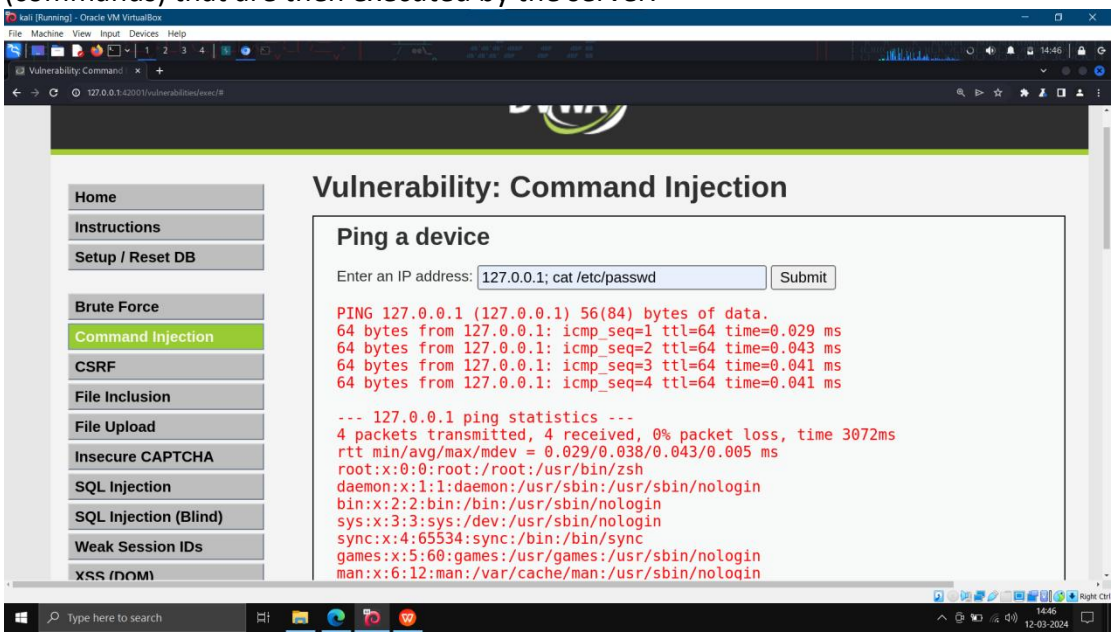
Week 3 report:

Aim: To exploit the DVWA vulnerabilities.

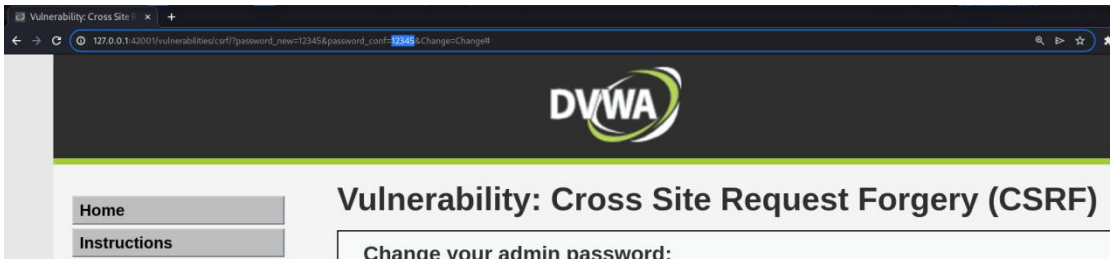
Brute force: A brute force attack is a hacking method that employs trial-and-error to crack passwords, encryption keys, or even gain access to hidden data. Imagine a thief trying every single combination on a lock until they stumble upon the right one. That's the basic idea behind a brute force attack



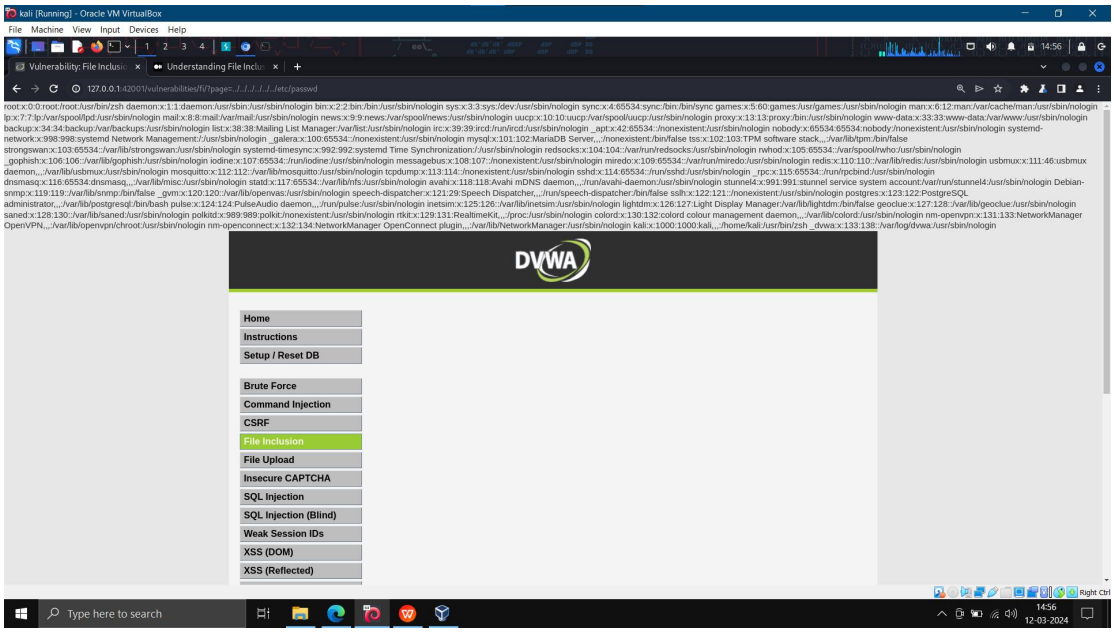
Command injection: Command injection vulnerability occurs when a web application fails to properly validate user input. This allows attackers to inject malicious code (commands) that are then executed by the server.



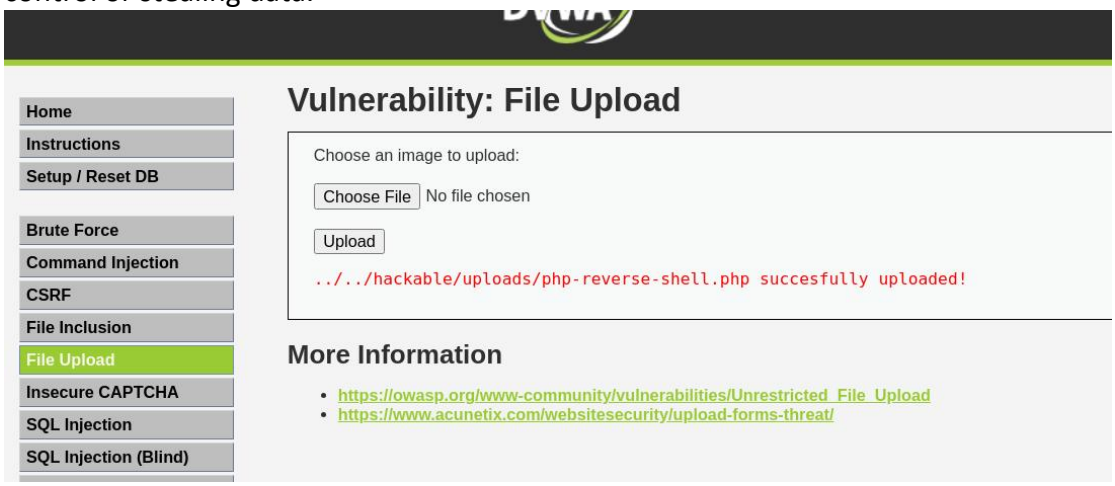
CSRF: CSRF tricks a user into unknowingly executing unauthorized actions on a trusted website through hidden requests, often using stolen cookies.



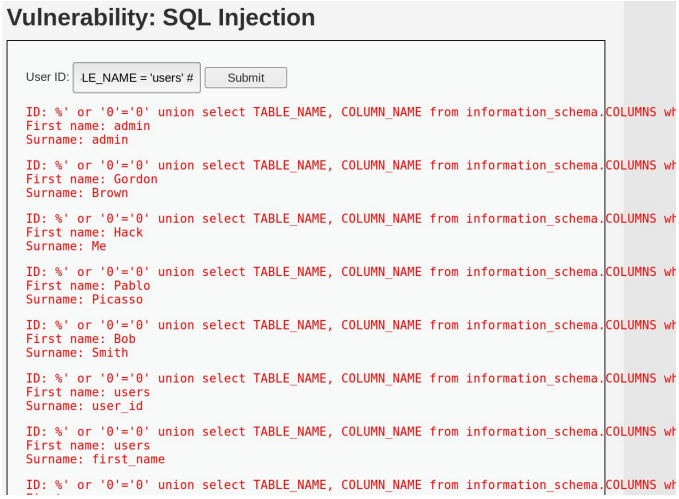
File inclusion: File inclusion vulnerability lets attackers trick web apps into revealing or running files on the server, potentially exposing sensitive data or even granting unauthorized access.



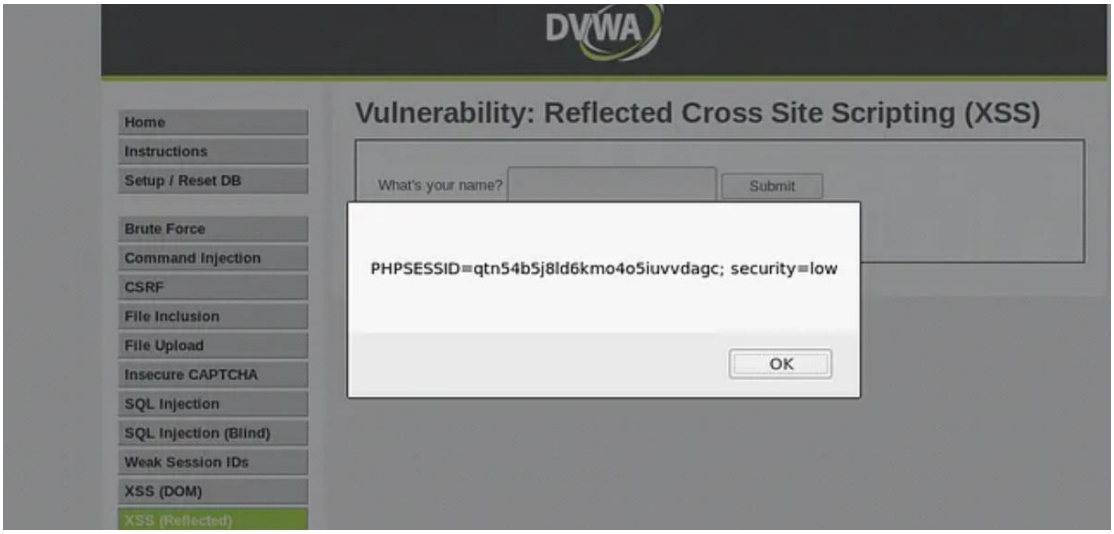
File upload: Flaw in web apps lets attackers upload malicious files, potentially taking control or stealing data.



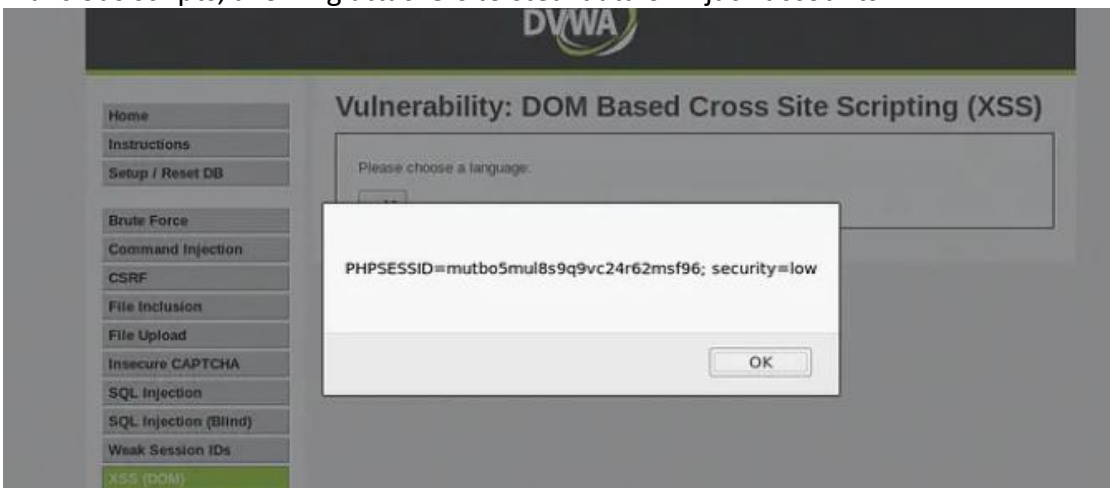
SQL injection: SQLi trickery lets attackers manipulate database queries, potentially stealing data, adding entries, or even gaining full control.



XSS reflected: Reflected XSS tricks a website to embed malicious scripts in responses, allowing attackers to steal user data or hijack sessions.

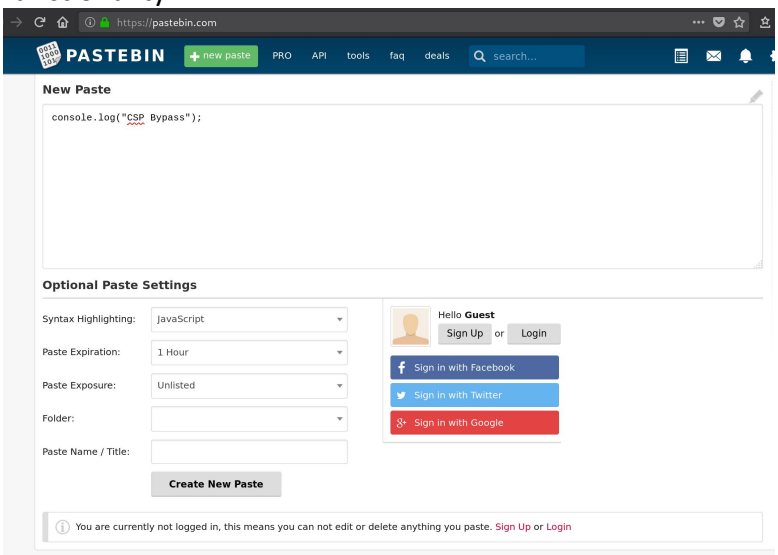


XSS DOM: DOM-based XSS vulnerability tricks the user's browser into running malicious scripts, allowing attackers to steal data or hijack accounts.



Stored XSS: Attacker injects malicious script into a website's data, harming any user who views it.

CSP Bypass : CSP bypass vulnerability allows attackers to sneak malicious code into a website despite security restrictions, potentially compromising user data or website functionality.



Result: We were able to study and exploit the vulnerabilities in the dvwa successfully