Day 8: Cross-Site Request Forgery (CSRF) Attacks

Understanding Cross-Site Request Forgery (CSRF) attacks. This report explores what CSRF attacks are, their occurrence, consequences, and a practical task involving setting up a CSRF attack on testfire.net using Burp Suite.

What is CSRF?

Cross-Site Request Forgery (CSRF) is a type of security vulnerability where an attacker tricks a user into performing an action on a web application without their consent. This happens when the user is authenticated on the targeted site, and the attacker leverages this authentication to carry out malicious actions.

Occurrence of CSRF Attacks:

CSRF attacks can occur in various situations, such as:

1.Form Submissions: Attackers trick users into submitting forms with malicious content.

2.Image Tags: Malicious code hidden in image tags can initiate unauthorized actions.

3.URLs: Users can be tricked into clicking on specially crafted URLs that perform actions without their knowledge.

Consequences of CSRF Attacks:

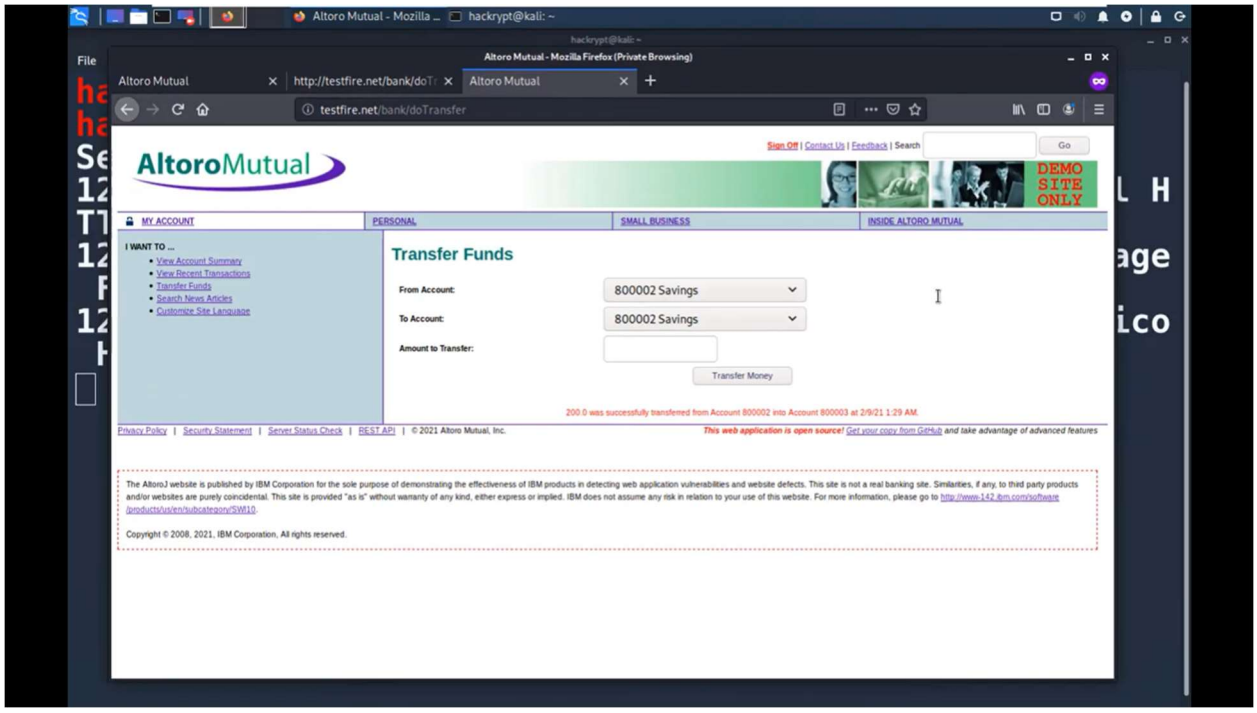
1.Unauthorized Actions: Attackers can perform actions on behalf of the victim user, such as changing account settings, posting on social media, or transferring funds.

2.Data Loss or Theft: Sensitive data can be lost or stolen through CSRF, leading to privacy breaches.

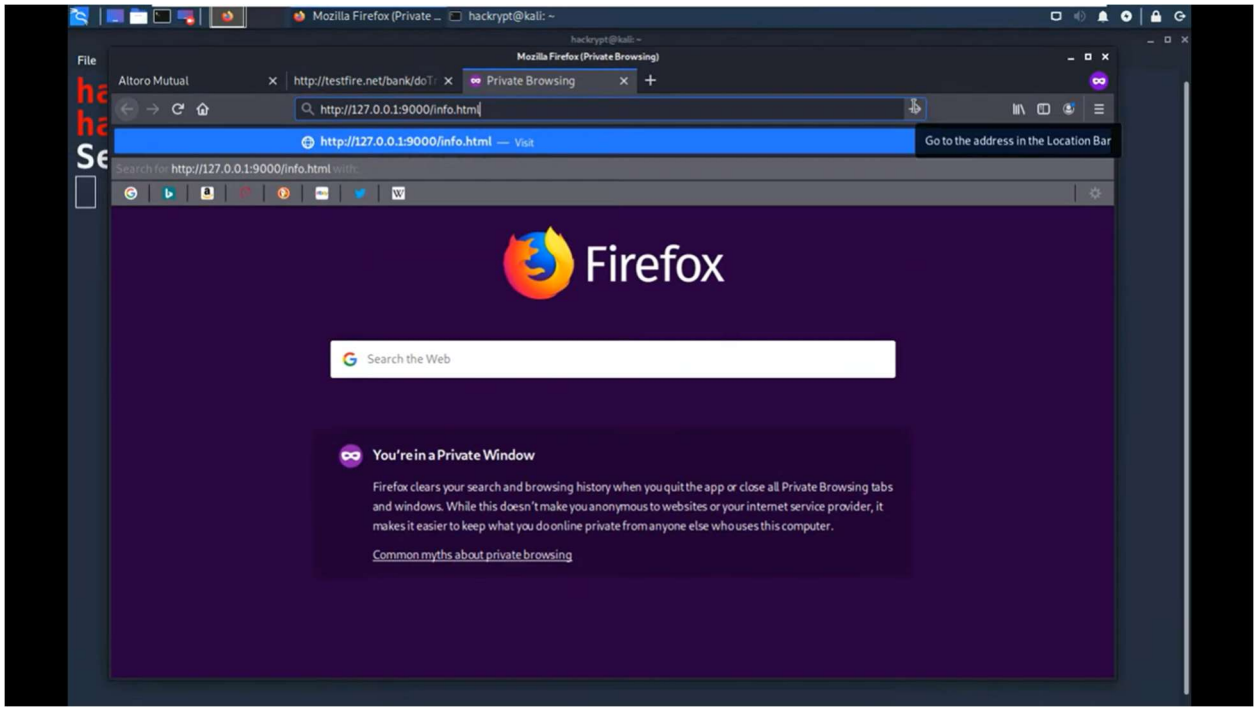
3.Account Takeover: CSRF can lead to account compromise if attackers change passwords or account settings.

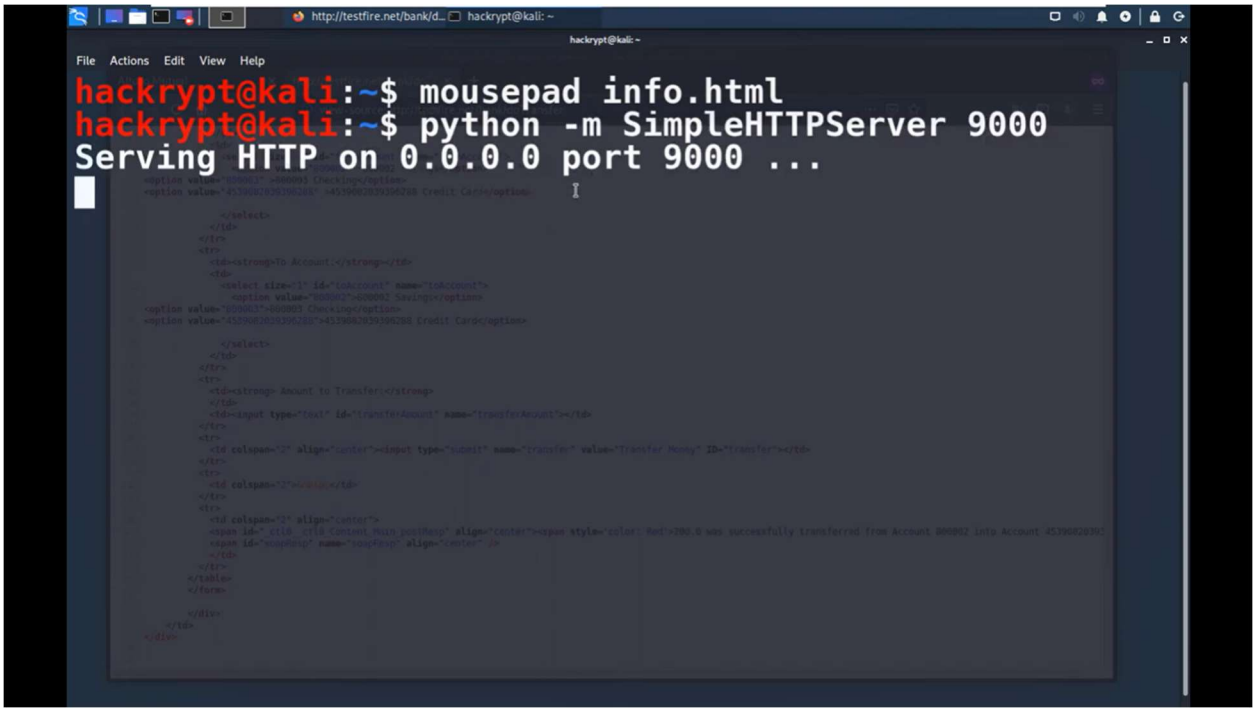
4.Financial Loss: Unauthorized transactions or changes can result in financial losses.

Practical Task: Setting Up CSRF Attack on testfire.net Using Burp Suite:

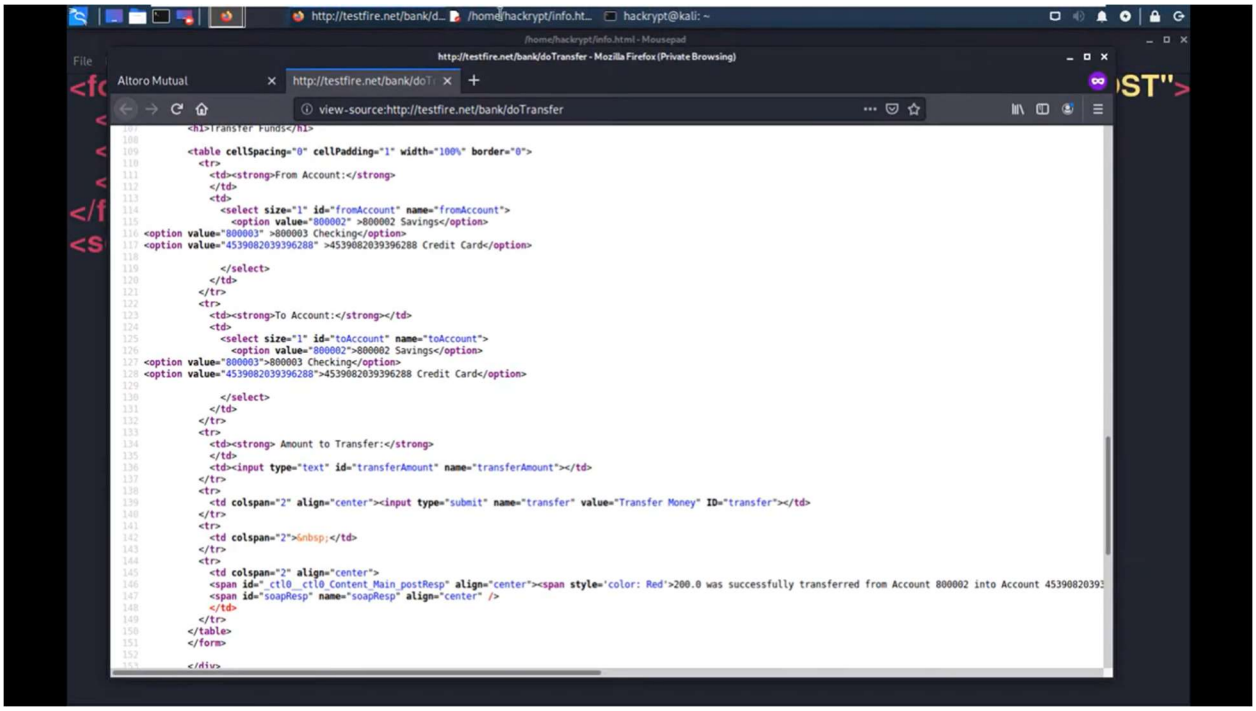


I fill the form by login with fake credentials

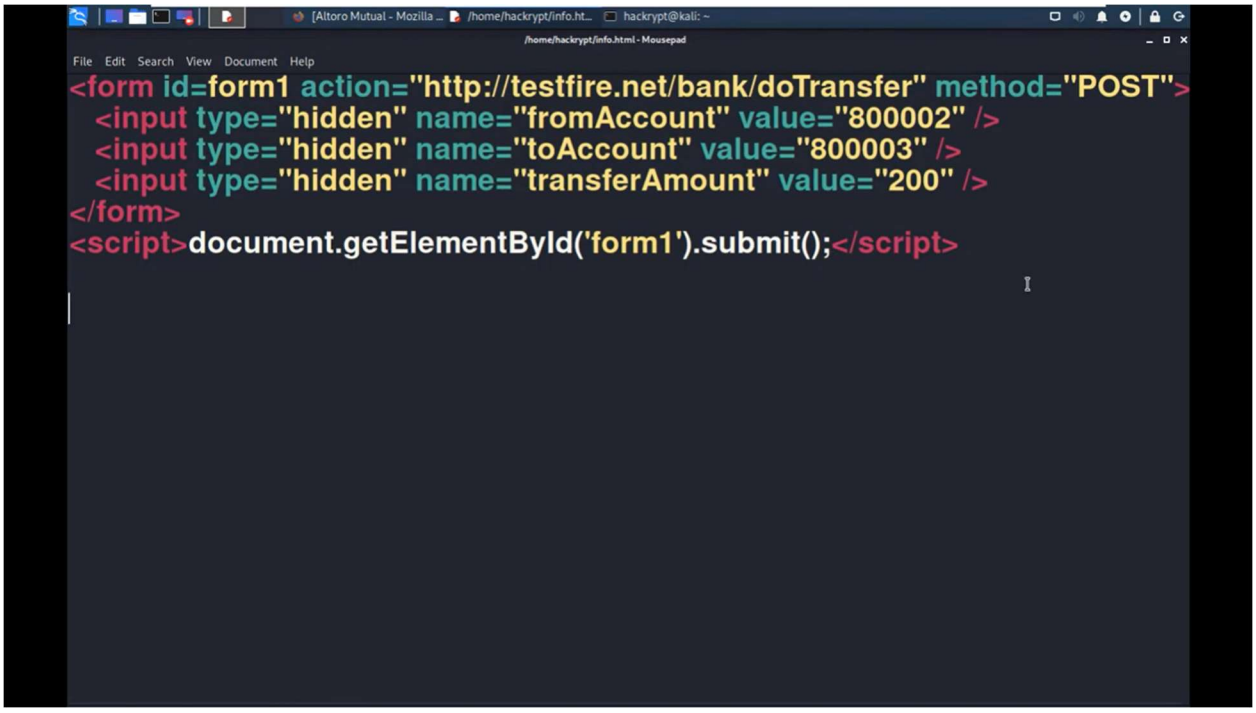




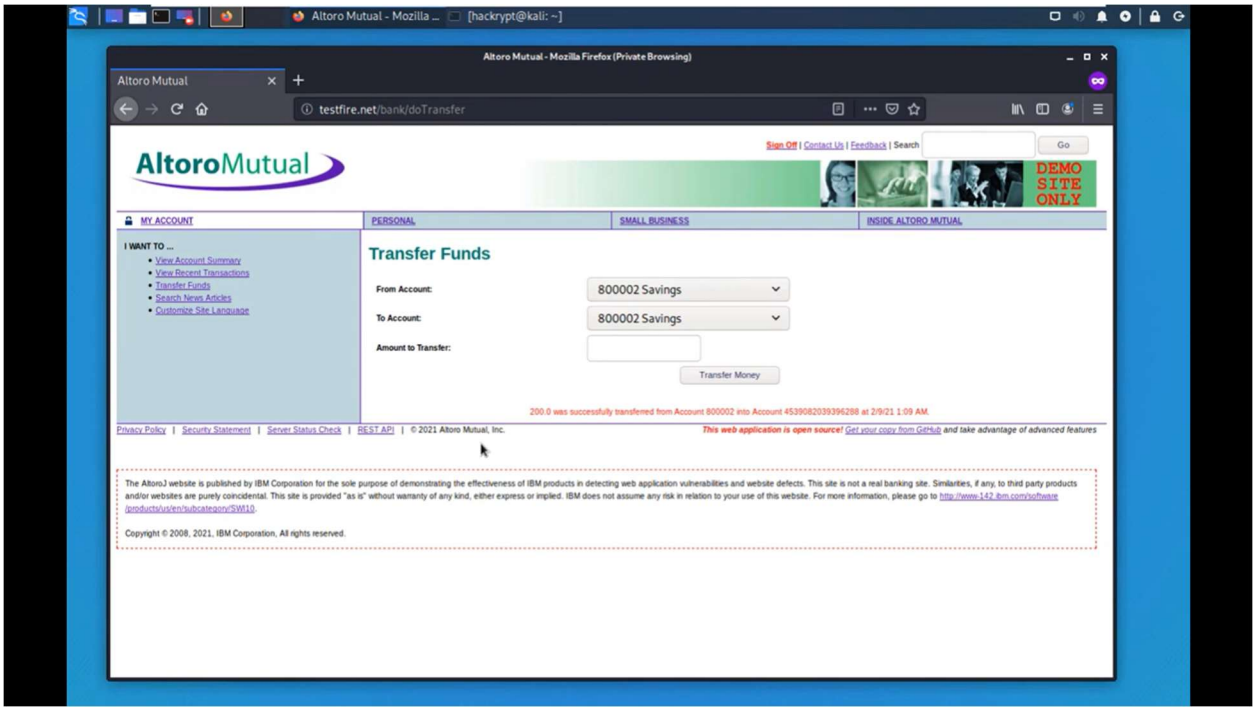
On the listner



By clicking on the inspect option this will open and can manipulate the data



Html code for fake page



Successfully transferred 200 rupees using burpsuite (reqesting web application by interference)

Conclusion:

Day 8 of our bug hunter practices focused on CSRF attacks, their occurrence, and consequences. Understanding how CSRF attacks work is essential for identifying and mitigating them. The practical task

of setting up a CSRF attack on testfire.net using Burp Suite allowed you to gain hands-on experience in exploiting and preventing CSRF vulnerabilities.