

Final Report

Vulnerability - 01 : Reflected XSS

Vulnerability Name:	Reflected XSS
Target URL/IP:	
Severity:	Medium
CVE/CWE:	CVSS:3.0/AV:N/AC:L/PR:N/UI:R/S:U/C:N/I:L/A:N
Ease of Exploitation:	Medium
CVSS Score:	4.3

Impact:

1. You can steal cookie using XSS
2. You can execute code on the page and diphase the page.

Description:

Reflected Cross-Site Scripting (Reflected XSS) is a type of web security vulnerability that allows an attacker to inject malicious scripts into web pages that are then executed in the context of a user's browser. This typically happens when the application reflects user input, such as in URL parameters or form submissions, without properly sanitizing or encoding it.

Evidence:

Step1:



Step2:



Remediation:

1. Use output encoding
2. Set cookie attribute tom HTTP only
3. Sanitize user input

Vulnerability - 02 : Login using Default Credentials

Vulnerability Name:	Login using Default Credentials
Target URL/IP:	
Severity:	Medium
CVE/CWE:	CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N
Ease of Exploitation:	Easy
CVSS Score:	5.3

Impact:

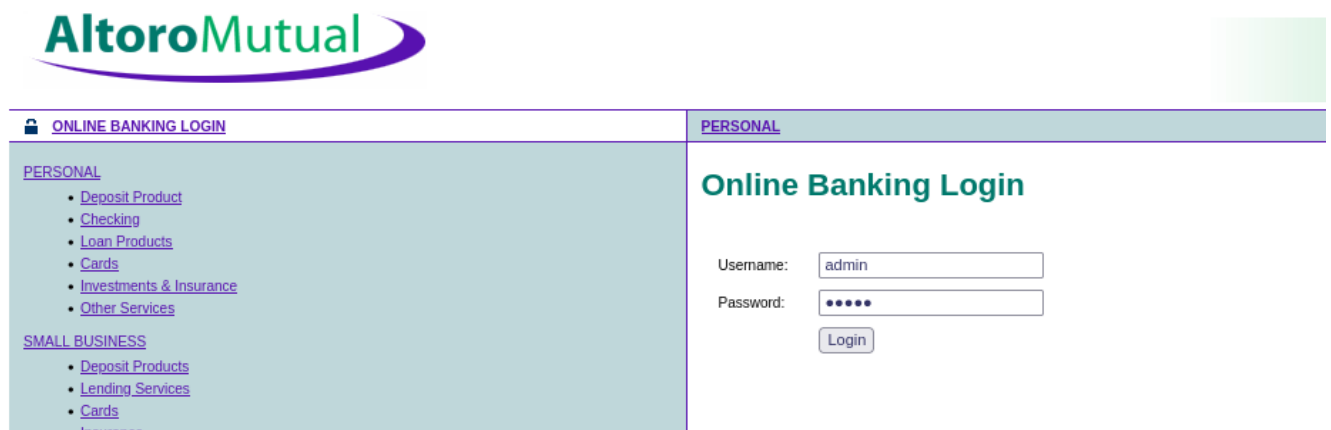
Using default credentials, anyone can login into the application and make fund transfer.

Description:


During the assessment ,it was found that the application was using default credentials.

Evidence:

Step1:





 MY ACCOUNT		PERSONAL	SMALL BUSINESS
--	--	--------------------------	--------------------------------

I WANT TO ...

- [View Account Summary](#)
- [View Recent Transactions](#)
- [Transfer Funds](#)
- [Search News Articles](#)
- [Customize Site Language](#)

ADMINISTRATION

- [Edit Users](#)

Hello Admin User

Welcome to Altoro Mutual Online.

View Account Details:

800000 Corporate

Congratulations!

You have been pre-approved for an Altoro Gold Visa with a credit limit of \$10000!

Click [Here](#) to apply.

Remediation:

Vulnerability - 03 : SQL Injection (admin'OR 1=1--)

Vulnerability Name:	SQL Injection
Target URL/IP:	
Severity:	
CVE/CWE:	CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:H/A:N
Ease of Exploitation:	
CVSS Score:	8.2

Impact:

1. Unauthorized access
2. Fund transfer(financial loss)

Description:

SQL injection is a type of cyber attack that targets databases through vulnerabilities in web applications. It occurs when an attacker manipulates a query by inserting or "injecting" malicious SQL code into input fields (like login forms or search boxes). If the application fails to properly validate or sanitize this input, the attacker can execute unauthorized commands.

This can lead to unauthorized access and fund loss.

Evidence:

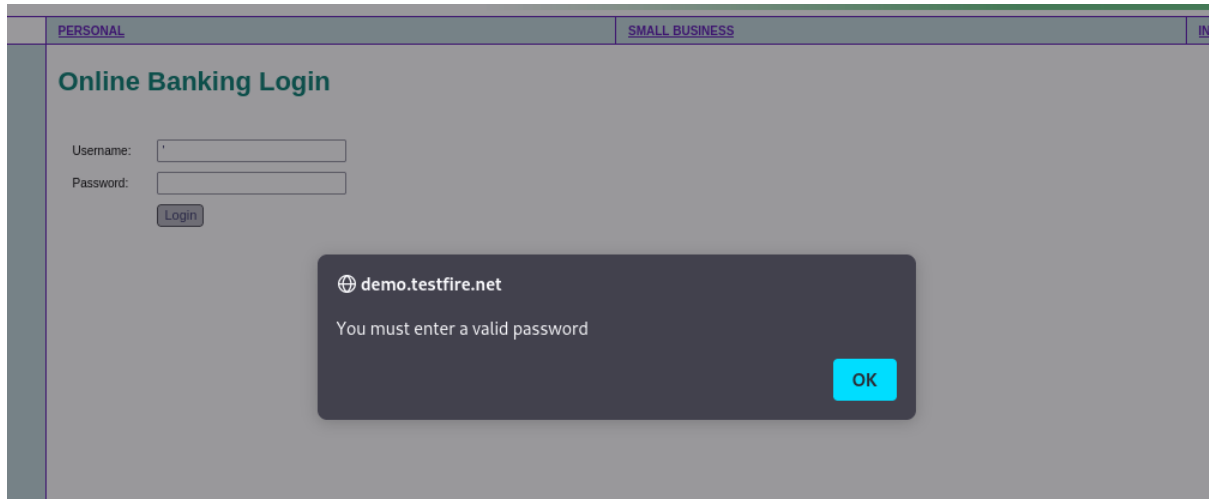
Step1: Go login page of the application

Online Banking Login

Username:

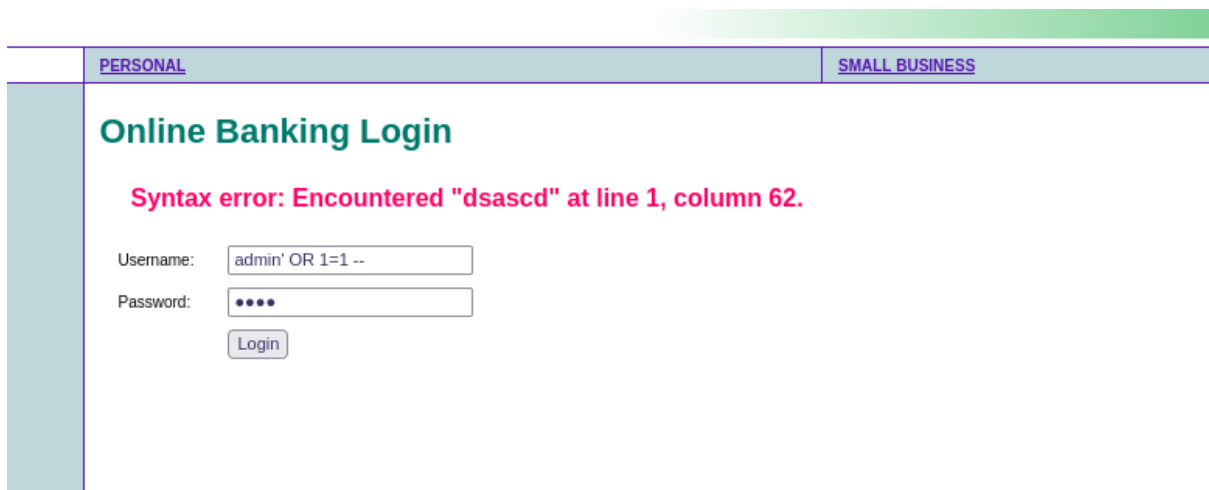
Password:

Step2: A quote was inserted in the username field and the password was also entered. Upon submitting the form ,it was observed that the web application form returned an error, conforming the existence of a SQL injection.

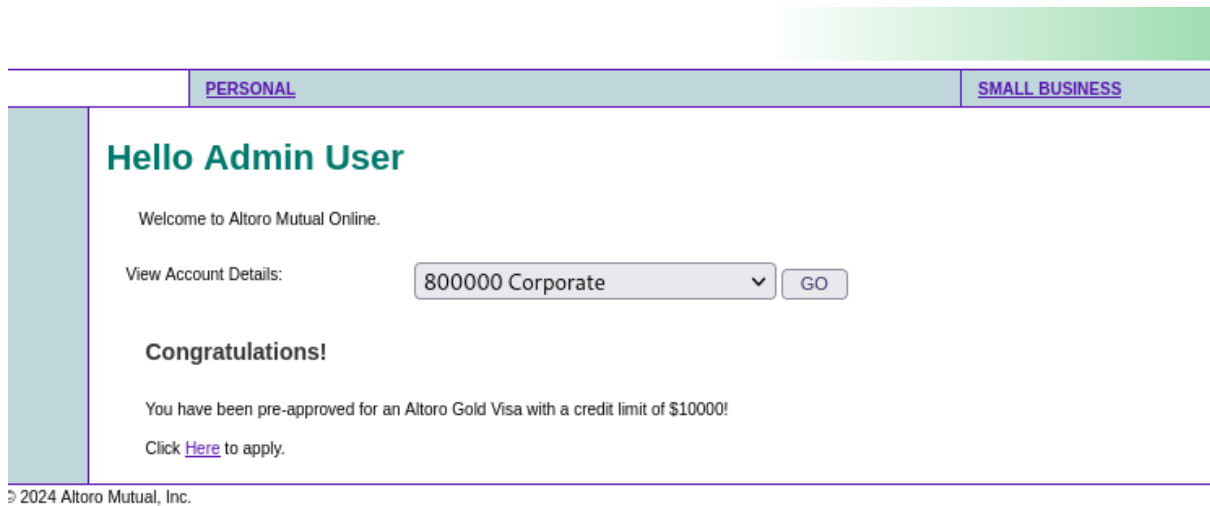


The screenshot shows the 'Online Banking Login' page. At the top, there are navigation tabs: 'PERSONAL', 'SMALL BUSINESS', and 'IN'. The login form includes a 'Username' field, a 'Password' field, and a 'Login' button. A dark grey modal dialog box is displayed in the center, containing the text 'demo.testfire.net' and 'You must enter a valid password', with an 'OK' button.

Step3:The SQL injection was Success Exploited by using a Boolean condition that is always true



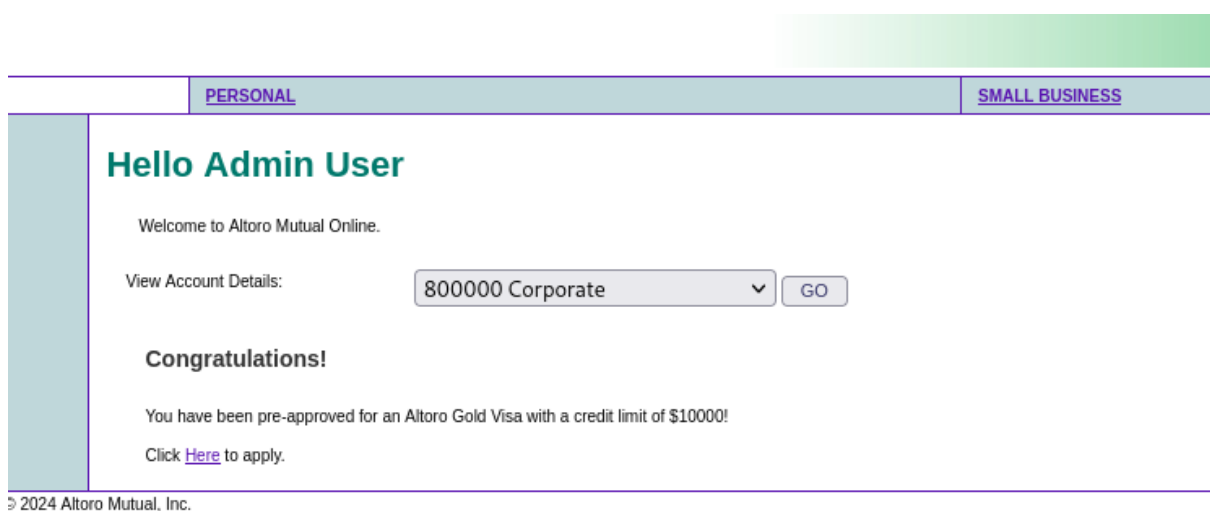
The screenshot shows the 'Online Banking Login' page with the same navigation tabs. A red error message is displayed: 'Syntax error: Encountered "dsascd" at line 1, column 62.' The 'Username' field contains the text 'admin' OR 1=1 --' and the 'Password' field contains four dots. The 'Login' button is visible.



As seen in the above screenshot the login was successful.

Remediation:

1. Always sanitize user input
2. Use parameterized queries



Vulnerability - 04 : CSRF

Vulnerability Name:	Cross-Site Request Forgery
Target URL/IP:	http://demo.testfire.net/bank/transfer.jsp
Severity:	High
CVE/CWE:	CVSS:3.0/AV:N/AC:L/PR:N/UI:R/S:U/C:L/I:H/A:N
Ease of Exploitation:	Medium
CVSS Score:	7.1

Impact:

An Unauthorized attacker can cause authorized user to perform unintended fund transfer

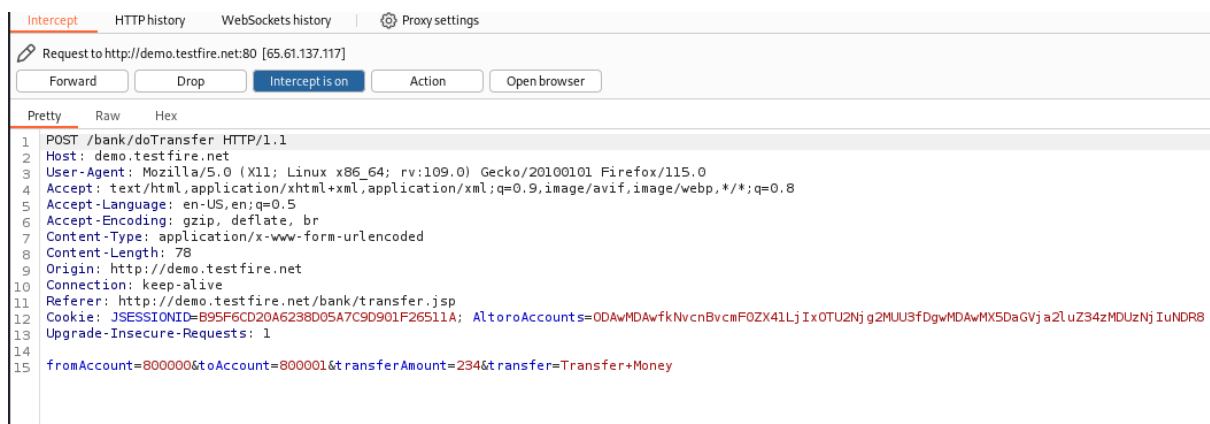
Description:

During the

Cross-Site Request Forgery (CSRF) is a type of security attack that tricks a user into executing unwanted actions on a web application in which they are authenticated. In a CSRF attack, the attacker creates a malicious link or form that, when clicked or submitted by the victim (while logged in to the target site), sends a request to that site without the user's consent.

Evidence:

Step1:



Step2:

CSRF PoC Generator

REQUEST

POST /bank/doTransfer HTTP/1.1
Host: demo.testfire.net
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101 Firefox/115.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate, br
Content-Type: application/x-www-form-urlencoded
Content-Length: 79
Origin: http://demo.testfire.net
Connection: keep-alive

Generate PoC Form

CSRF PoC FORM

<html>
<body>
<form method="POST" action="/bank/doTransfer">
<input type="hidden" name="Host: demo.testfire.net" value="5678"/>
<input type="submit" value="Submit">
</form>
</body>
</html>

Copy It Save as HTML

Step3: Click on the Submit Button

file:///home/kali/Desktop/csrf-poc-1727515297542.html

Kali Linux

Kali Tools

Kali Docs

Kali Forums

Kali NetHunter

Exploit-DB

Google Hacking DB

OffSec

Submit

Step4: On clicking the submit button it was found the application as transfer fund was found.

AltoroMutual

Sign Out | Contact Us | Feedback | Search

Go

DEMO SITE ONLY

MY ACCOUNT

PERSONAL

SMALL BUSINESS

INSIDE ALTORO MUTUAL

I WANT TO ...

- View Account Summary
- View Recent Transactions
- Transfer Funds
- Search News Articles
- Endorse New Listings

ADMINISTRATION

- Exit Colors

Recent Transactions

After: 2024-09-28 Before: 2024-09-28 Submit

Transaction ID	Transaction Time	Account ID	Action	Amount
52108	2024-09-28 04:31	800001	Deposit	\$5175.00
52107	2024-09-28 04:31	800000	Withdrawal	-\$5476.00
52106	2024-09-28 04:31	800001	Deposit	\$6369.00
52105	2024-09-28 04:31	800000	Withdrawal	-\$6363.00

Remediation:

1. Set same-site cookie attribute to strict.
2. Implement CSRF token.

