Risk ID			2 3	4	5
		Files exposed by			Info
	VCC (Deflected in case of id	common names		Hard	Information
	XSS (Reflected in case of id	(subject to URL	CO1	Hard-	exposure
Technical Risk	parameter, and Persistent in	fuzzing with	SQL	coded	through an
recillical Risk	case of posts)	wordlist)	Injection Evidence	password	error message
			that it	in the	
			<u>happened</u>	<u>code</u> :	
			: HTTP	Initializing	
			requests	a	
			containin	password	Evidence that it
			g SQL	variable in	happened:
			keywords;	the	outbound HTTP
			Database	applicatio	traffic (in logs)
			log shows	n code	containing
			queries	and using	revealing error
			with	that	messages
			condition	variable	Evidence in the
			s that are	as	code: Calls to
			always	paramete	"mysql_error",
			true (like	r for DB	which gives the
			'1=1')	login	direct error
		Evidence that it	<u>Evidence</u>	(board.ph	from the DB,
	Evidence that it happened:	happened: HTTP	<u>in the</u>	p, lines 15	are part of the
	HTTP requests in web server	requests in web	<u>code:</u>	and 18;	error message
	log (or database entries in	server log with	Unsanitiz	includes/	string
	MySQL) containing scripts	sensitive filename	-	dblib.php	(board.php line
	within them <u>Evidence in the</u>	at end of URL	dynamical	lines 3	18,
	<u>code</u> : For persistent XSS,	Evidence in the	ly created	-	includes/dblib.p
	unsanitized usage of stored	<u>code</u> : Sensitive file	queries	scoreboar	hp lines 8 and
	user input at ctf/board.php:	names match	like those	d/index.p	27,
	lines 44, 59, 64; for reflected	common words	at	hp lines	scoreboard/ind
Technical Risk	XSS, unsanitized usage of id	(ctf/flag.txt,	ctf/board.		ex.php lines 34
Indicators	parameters at lines 43, 50, 58	ctf/logout.php)	php lines	111, 114)	and 114
Deleted Cuts Cuts					
Related CVE, CWE,	C) A / F 7 C	N1 / A	CIA/E CO	CIA/E 256	C) 4 / E 20 C
or OSVDB IDs	CWE-79	N/A	CWE-89	CWE-259	CWE-209
Impact Rating	Medium	Medium	High	Medium	Low

				Developer s of the software can get inappropriate access to live customer	Can help guide
	Cookie stealing or tampering;	Sensitive information about business or web server can be obtained, which may be inherently valuable (like the CTF key) or may be used for other	Read or modify applicatio n data; bypass authentic ation	tations because they know password; software must be patched if password becomes	revealing file
mpact	defacing; redirection to other sites	exploits	system Sanitize inputs; check input against white list; use prepared SQL statement s; use	outsource password strings to properties	information)
Mitigation	Sanitize inputs; check input against a white list; do not allow embedding of HTML tags in posts	Configure web server not to serve specific files or specific file types (httpd.conf or .htaccess controls this in Apache)	stored procedure s with paramete r	or config files; store strings as cryptogra	Publish generic error messages which reveal nothing about the system

	Insert script for a JavaScript alert into form for post, or in the id parameter of the URL. Save it and reload page. Pop up		database logs to make sure no request was	n code for the password. Verify it cannot be	Run a fuzz tool to intentionally trigger errors and verify that all returned messages are
Validation Steps	should not appear.	found	made.	found.	generic

6 7 8 9

Weak password /

weak Weak

Directory Cookie hashing? cryptogra

Traversal Tampering (for Bobo) phy

Evidence

that it

happened

: Web

server log

shows

requests

to non-

existent

locations,

followed

immediat

ely by

download

s of files

<u>Evidence</u>

in the

code:

apache2.c

onf or

.htaccess

files have

Indexs

option

activated

CWE-548

High

Access to listed files, which themselves may be sensitive; possible access to source code which can reveal more weakness es

Turn
directory
listing off
by
default;
allow
accounts
access to
files on
"need to
know"
basis

Enter URL to access non-existent file in an existing directory, and verify that no listing appears