## **Check Point Report**

**Vulnerable Application: BodgeIt** 

**Team Name: AA Team** 

Kevin Wu 0808148w

Claudia Ortiz-Duron 2412650o

Laimonas Samalius 244831s

Sultan Altwijri 2312914a

Ali Rashed A Al Qarni 2286368a

Vulnerability	Type of Vulnerability	Details of the Attack	Screenshot evidence	1
Login as	SQL Injection	Login using	Figure 1	,
test@thebodgeitstore.	(Injection flaw)	test@thebodgeitstore.		١
com		com' or "=' was		
		entered in username		
		field		
Login as	SQL Injection	' or "=' was entered in	Figure 2	
user1@thebodgeitsto	(Injection flaw)	both id and password		
re.com		to log on		
	SQL Injection			
Login as	SQL Injection	Login using	Figure 3	
admin@thebodgeitst	(Injection flaw)	admin@thebodgeitst		
ore.com	SQL Injection	ore.com' or "=' was		_
		entered in username		
		field		
<u>Find hidden content</u>	<u>Security</u>	Exploring URL links	Figure 4	
as a non admin user	<u>Misconfiguration</u>	is noticeable that		
	Broken Access	they have similar		
	Control/Failure to	pattern:		
	restrict URL Access			
		http://192.168.56.101		
		/bodgeit/home.jsp;		
		http://192.168.56.101		
		/bodgeit/about.jsp;		

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			1	1
		So we try to check if		
		Admin page uses the		
		same address pattern.		
		Entering		
		http://192.168.56.3/b		
		odgeit/admin.jsp lets		
		us access unprotected		
		Admin page with		
		hidden information		
		for non admin user.		
		we try to check if		
		Admin page uses the		
		same address pattern.		
		Entering		
		http://192.168.56.3/b		
		odgeit/admin.jsp lets		
		us access unprotected		
		Admin page with		
		hidden information		
		for non admin user.		
Find diagnostic data	Security	Check on the web	Figure 5.	
	Misconfiguration Sec	site all links by		
	urity	adding at the end of		//
	Misconfiguration /	their URL addresses		
	Leftover Debug	this code		`
	Code <del>Leftover Debug</del>	?debug=true. If any		
	Code	debugging data was		
		left by the developer,		
		then the webpage		
		will render it. In this		
		case "DEBUG		
		basketid = 2".		
		there debugged	Figure 5.1	
		appear on page		
		"Your Basket" which		11
		is "DEBUG basketid		1
		<del>= 4"</del>		//
		<del>(ALI)</del>		
Level 1: Display a	Cross-Site Scripting	Went-Go to Search	Figure 6.	
popup using:		page, Copy and		1
<script>alert("XSS")</td><td></td><td>pastedenter following</td><td></td><td>/</td></tr><tr><td></script>		code into form field		
		" <script>alert("XSS"</td><td></td><td></td></tr><tr><td></td><td></td><td>)</script> " and pop		
		up appeared		
Level 2: Display a	Cross-Site Scripting	Register a new	Figure 7.	
popup using:		1 1 1		I
<pre><script>alert("XSS")</pre></td><td></td><td>account and entering aateam@legacy.com</td><td></td><td></td></tr></tbody></table></script></pre>				

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SS")	
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<del>com</del>	Formatted: Font: (Default) Times New Roman, 12 pt
<del>SS")</del>	
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Figure 8	Formatted: Font: (Default) Times New Roman, 12 pt
<u>com</u>	Field Code Changed
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<del>xa.</del> <u>10</u> Figure 12	Formatted: Font: (Default) Times New Roman, 12 pt
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	Figure 8  S")  Figure 9  figure 9

		i .	
		by a post method. If	
		the attacker views the	
		network data, they	
		can inspect the post	
		request traffic. By	
		clicking on the 'edit	
		and resent' tab, the	
		hacker can view the	
		request body. This	
		can then be added at	
		the end of the link,	
		<u>e.g.</u>	
		http://192.168.56.101	
		/bodgeit/basket.jsp?p	
		roductid=8&price=3.	
		7&quantity=1, which	
		will send a query	
		string to the server	
		for this item to be	
		added to the basket. An attacker might	
		replace a normal link,	
		such as the home	
		link, with the query	
		string link (by	
		inspecting the link	
		element and	
		replacing the ahref	
		attribute to this link).	
		A victim can click	
		the link unaware that	
		they've been attacked	
Get the store to owe		T've attached a	Figure 10 <del>1</del>
you money		screenshot at the end	115010 101
J = 22 = 22 = 2 J	Brokenn Access	of this page.	*
	Control		
	<u>Security</u>	Add purchase item to	
	Misconfiguration/	basket and update	
	<u>INo input validation.</u>	basket content. Next,	
		explore the can	
		explore basket web	
		page code trying to	
		find the block for any	
		relevantof code	
	1	related to the	
		related to the	
		quantity of purchased	
		quantity of purchased items. After locating	
		quantity of purchased items. After locating this, the value of	
		quantity of purchased items. After locating	

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Change your password via a GET request	Information exposure through query strings in URL	changedvalue we ehange it to a negative number. C andlicking update basket afterwards. The web application processes this as if it was trusted data, making the -it makes store- owe money to the attacker Click view page source, form submit is set to POST.  Inspect one of the password field, replace FORM with GET - click change password. Notice new password is displayed in url bar	Figure 11.		Formatted: Font: (Default) Times New Roman, 12 pt Formatted: Font: (Default) Times New Roman, 12 pt Formatted: Font: (Default) Times New Roman, 12 pt Formatted: Justified, Space After: 8 pt, Line spacing: Multiple 1.08 li Formatted: Font: (Default) Times New Roman, 12 pt
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Conquer AES	We do not have to		•		Formatted: Font: (Default) Times New Roman, 12 pt
encryption, and display a popup	this exercise				Formatted: Font: (Default) Times New Roman, 12 pt, Font color: Auto
using:				,	Formatted Table
<script>alert("H@ck</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>ed A3S")</script>					Formatted: Font: (Default) Times New Roman, 12 pt
Conquer AES	We do not have to				Formatted: Font: (Default) Times New Roman, 12 pt, Font
encryption and	this exercise				color: Auto
append a list of table names to the normal					
results.					Formatted: Font: (Default) Times New Roman, 12 pt
Helping liks:			•	•	
· <del></del>					
	nackfin.tech/documents/F	inal Report CS Fundame			Formatted: List Paragraph, Bulleted + Level: 1 + Aligned at: 0.63 cm + Indent at: 1.27 cm

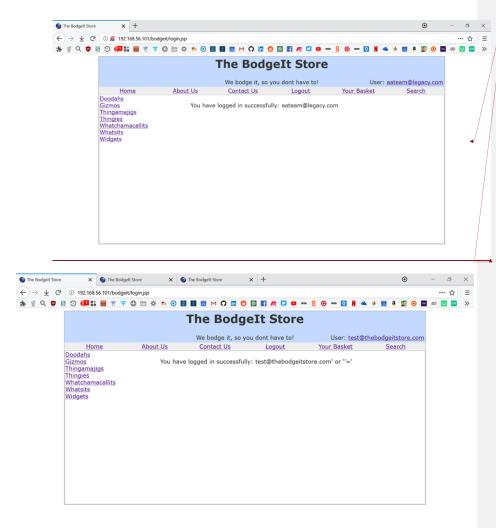
Screendumps

https://www.synackfin.tech/documents/Final\_Report\_CS\_Fundamentals.pdf

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Figure 1: Login as test@thebodgeitstore.com

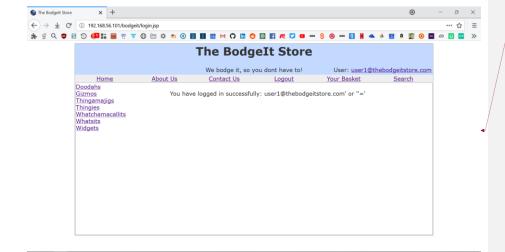
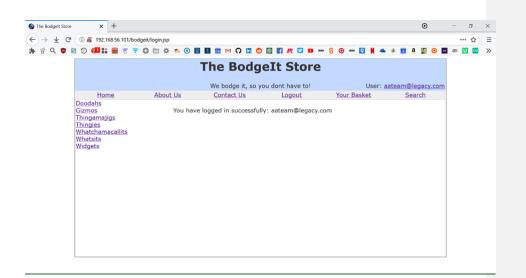


Figure 2 Login as user1@thebodgeitstore.com

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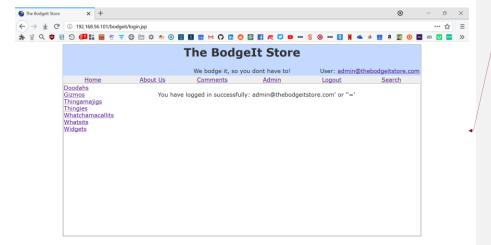


Figure 3 Login as admin@thebodgeitstore.com.

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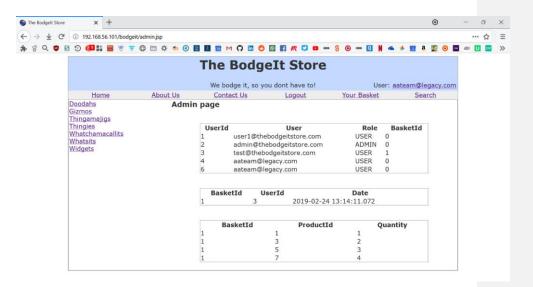


Figure 4 Find hidden content as a non- admin user

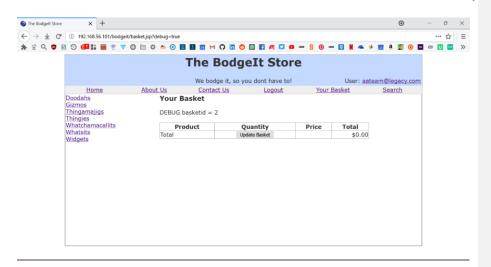


Figure 5 Find diagnostic data

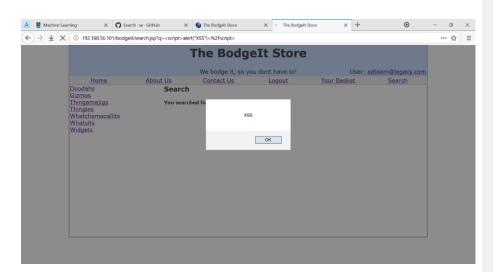


Figure 6 Level 1: Display a popup using: <script>alert("XSS")</script> via SQL query in search box

## Figure 7

Figure 7 Level 2: Display a popup using: <script>alert("XSS")</script> using sql query via register page

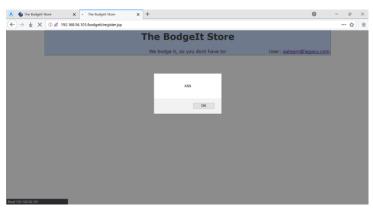


Figure 8 Level 3: Display a popup using: <script>alert("XSS")</script> Via the log in page

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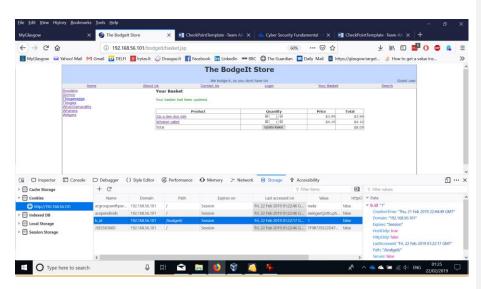
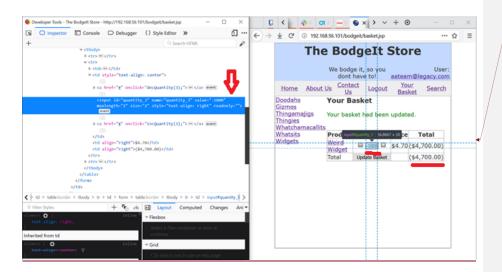


Figure 9: Access someone else's basket by exploiting poor session management control



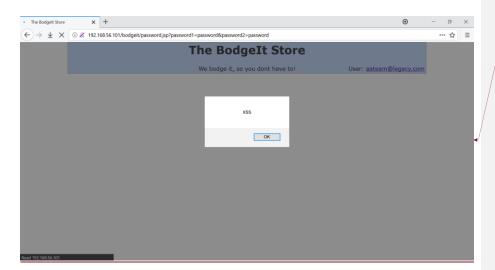


Figure 10 Changing your password via a GET request – new password ("password") is encoded in URL bar

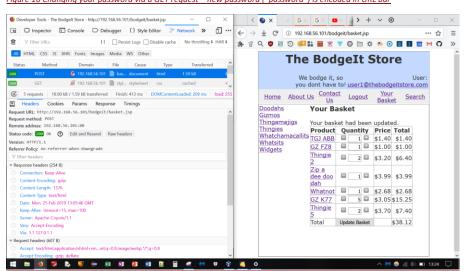


Figure 12: Force someone to add an item to their basket when they visit your webpage (using home link)

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