Check Point Report

Vulnerable Application: Bodgelt

Team Name: Group X

Team Members: X, X, X

Vulnerability	Details of the Attack	Screenshot evidence
(C1) Broken Authentication since "password" is one of the most commonly used passwords	Attack: Brute force dictionary attack 1. Navigate to /bodgeit/login.jsp and input the username "test@thebodgeitstore.com" 2. Input the password "password" and click the "Login" button.	* included below table
(C2) SQL Injection	Attack: SQL injection 1) Navigate to /bodgeit/login.jsp 2) Enter <u>user1@thebodgeitstore.com</u> into the username field and enter 'or '1'='1 into the password field and press the <i>Login</i> button.	< <a screenshot<br="">showing the result of the attack>> * included below table
(C3) SQL Injection	Attack: SQL Injection 1) Navigate to /bodgeit/login.jsp 2) Enter admin@thebodgeitstore.com' or '1'='1 into the username field and press the Login button.	* included below table
(C4) Insecure Direct Object References since an attacker can change a parameter value that directly	Attack: Insecure direct object reference attack 1) Inspect source code of /bodgeit/login.jsp to look for clues	* included below table

refers to a system object - in this case the admin page.	 Upon finding the line: <!-- td align="center" width="16%"-->Admin Navigate to /bodgeit/admin.jsp You have now found an insecure admin page for the Bodgeit Store Website 	
(C5) Missing Function Level Access Control since the user can change the URL to enable access the debug function	Attack: Forced browsing attack 1) Navigate to /bodgeit/basket.jsp. Append ?debug=true to the url to create /bodgeit/basket.jsp?debug=true 2) Create an exception by using Firebug (or any browser add-on to tamper data) to change the value of the "quantity" parameter from a numerical value to an alphabetic value such as "a". 3) Upon updating the basket, the response will include diagnostic data for the exception that was created.	* included below table
(C6) Cross-Site Scripting (XSS)	Attack: XSS attack 1) Navigate to /bodgeit/search.jsp 2) Inject	* included below table
(C7) Cross-Site Scripting (XSS)	Attack: XSS attack 1) Navigate to /bodgeit/register.jsp and enter john@doe.com <script>alert("XSS")</script> into the form. Press submit. 2) Since the email is displayed at the top-right corner of the page once you are logged in, the XSS script will also be run and so a popup with the text "XSS" appears	* included below table

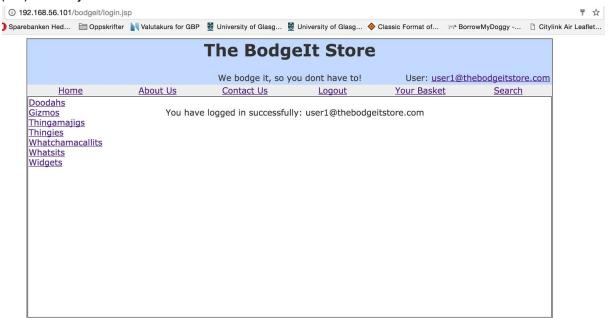
(C9) Broken Authentication	 Attack: Cookie manipulation As a guest user, add an item to your basket in order to generate the b_id cookie. Upon viewing the admin.jsp panel, you can see the b_id's of other users. Edit your new b_id cookie and change the value from the current value to 1. Go to your basket and update the basket then refresh the page. You will now be viewing the test user's basket 	* included below table
(C12) Injection	Attack: URL string injection 1) Login as any user. I used user: test@thebodgeitstore.com and pass: password 2) Navigate to the password-changing page by clicking on the user's email at the top-right corner of the page. Enter a password. 3) Inspect the form element and find the following line: <form method="POST"> 4) Change "POST" to "GET" and click the "Submit" button</form>	* included below table
Cross Site Request Forgery	 Grab the GET request for password, e.g http://0.0.0.0/bodgeit/password.jsp ?password1=qwerty&password2= qwerty Execute CSRF by submitting the following as feedback in the contact form: When the Admin checks the comments in the contact.jsp, the "src" parameter value sends a request to change the admin password 	* included below table* included below table

Screenshots:

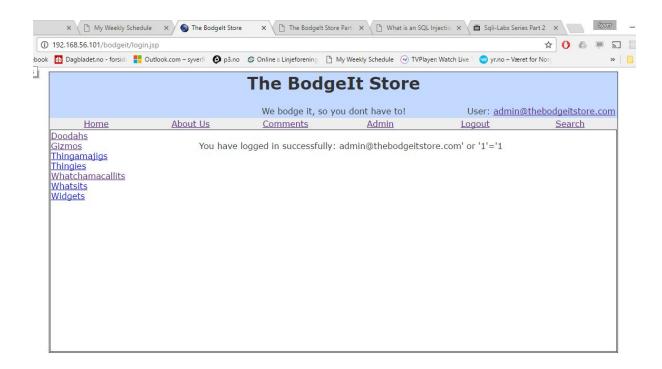
(C1) Insecure authentication



(C2) SQL Injection

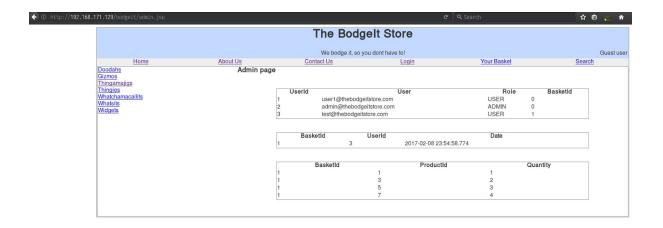


(C3) SQL Injection

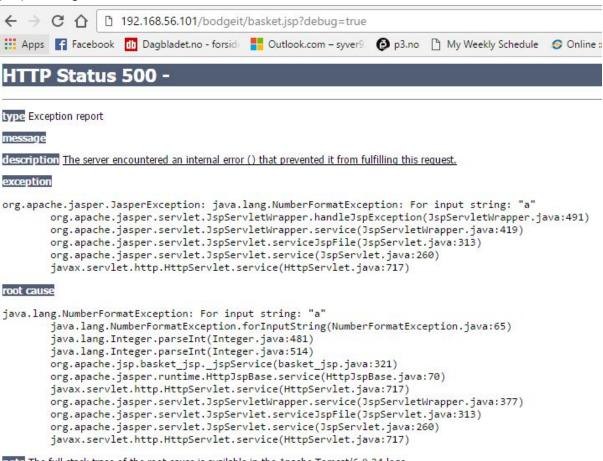


(C4) Insecure Direct Object References

```
← ① view-source:http://192.168.171.129/bodgeit/
  <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2//EN">
  <head>
  <title>The BodgeIt Store</title>
  <link href="style.css" rel="stylesheet" type="text/css" />
<script type="text/javascript" src="./js/util.js"></script>
  </head>
18 <body>
20 <center>
  24 <H1>The BodgeIt Store</H1>
25 
26 
27  
28 We bodge it, so you dont have to!
29 
32 
33 
34 
35 
36 
37 <a href="home.jsp">Home</a>
38 <a href="about.jsp">About Us</a>
40 <a href="contact.jsp">Contact Us</a>
41 <!-- td align="center" width="16%"><a href="admin.jsp">Admin</a>->
43 
        <a href="login.jsp">Login</a>
49 <a href="basket.jsp">Your Basket</a>
51 <a href="search.jsp">Search</a>
52
```



(C5) Missing Function Level Access Control



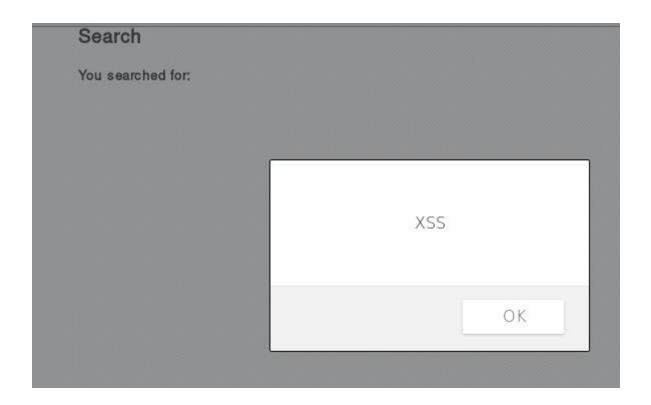
note The full stack trace of the root cause is available in the Apache Tomcat/6.0.24 logs.

Apache Tomcat/6.0.24

(C6) Cross-Site Scripting (XSS)

Search Search for >alert("XSS")</script>

Search
Advanced Search



(C7) Cross-Site Scripting (XSS)

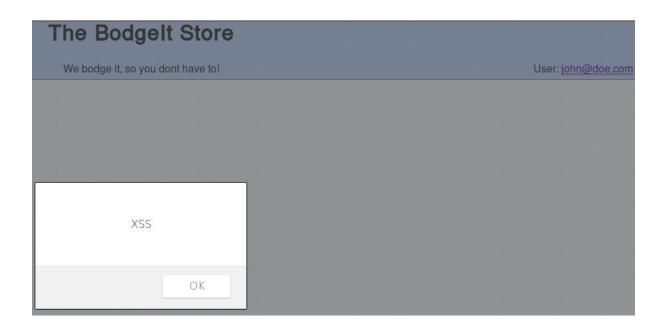
The Bodgelt Store We bodge it, so you dont have to! About Us Contact Us Login Your Basket

Register

A user with this name already exists.

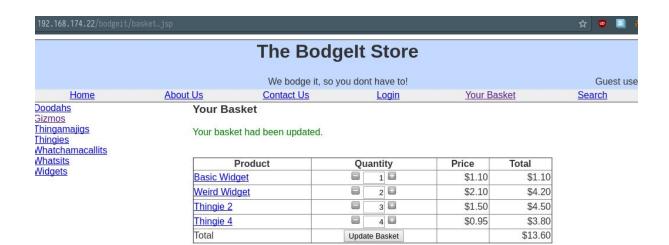
Please enter the following details to register with us:

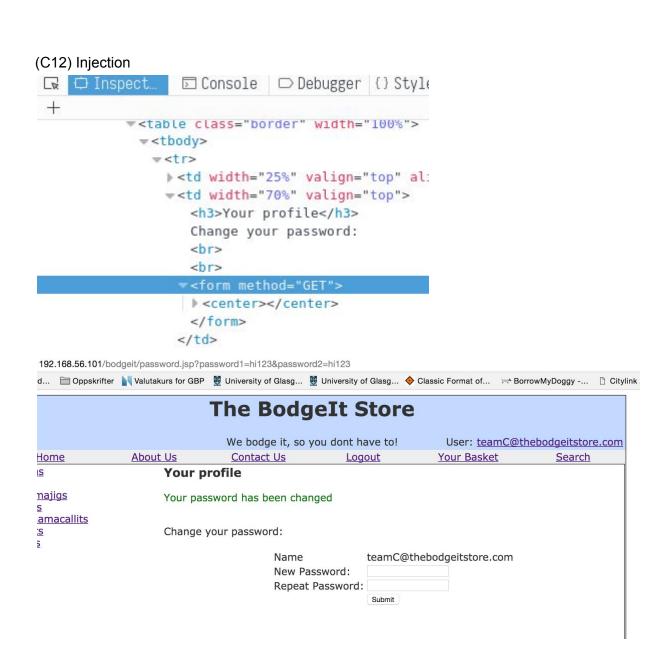
Username (your email address):	john@doe.com <script>a]</th></tr><tr><th>Password:</th><th>•••••</th></tr><tr><th>Confirm Password:</th><th>•••••</th></tr><tr><td></td><td>Register</td></tr></tbody></table></script>
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(C9) Broken Authentication







Cross Site Request Forgery

	We bodge it, so yo	ou dont have to!		Gu
<u>Us</u>	Contact Us	Login	Your Basket	Search

Contact Us

Please send us your feedback:

```
<img src='http://192.168.56.101|/bodgeit/password.jsp?
password1=qwerty&password2=qwerty'>
Submit
```

We bodge it, so yo	ou dont have to!	User: admin@	thebodgeitstore
Comments	<u>Admin</u>	<u>Logout</u>	<u>Search</u>

User	Comment
null	window.alert(Playyy);
null	alert(XSS)
test@thebodgeitstore.com	alert(XSS)
null	
null	