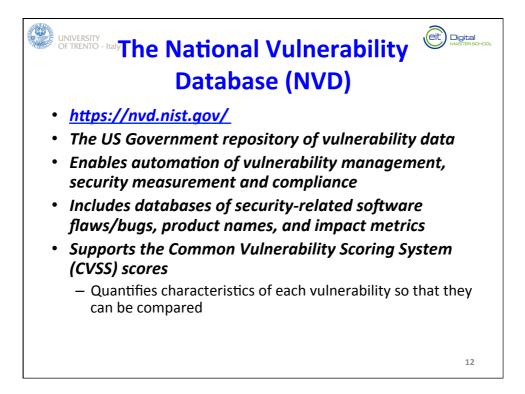
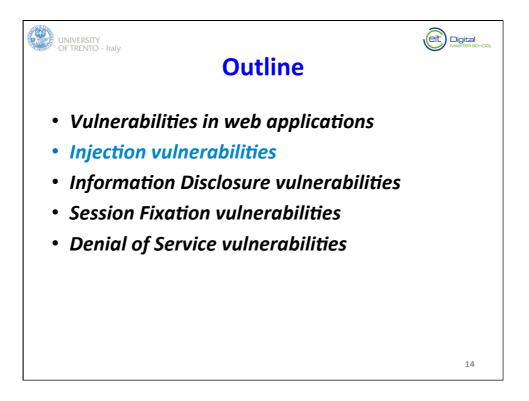


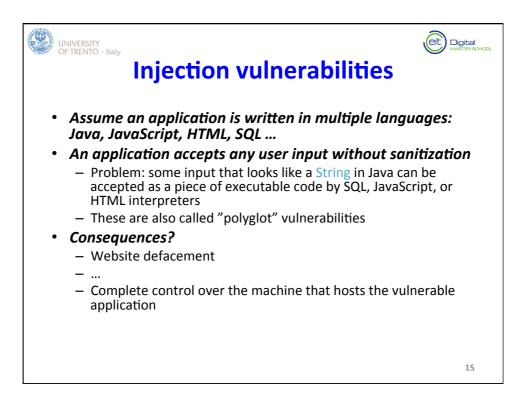
			Common Weakness	
			Enumeration (CWE)	
Nature	Туре	ID	Name	V
ChildOf	Θ	20	Improper Input Validation	700
ChildOf	Θ	74	Improper Neutralization of Special Elements in Output Used by a Downstream Component ('Injection')	699 1000 1003
ChildOf	C	442	Web Problems	699
ChildOf	C	712	OWASP Top Ten 2007 Category A1 - Cross Site Scripting (XSS)	629
ChildOf	C		OWASP Top Ten 2004 Category A1 - Unvalidated Input	711
ChildOf	C	725	OWASP Top Ten 2004 Category A4 - Cross-Site Scripting (XSS) Flaws	711
ChildOf	C	751	2009 Top 25 - Insecure Interaction Between Components	750
ChildOf	C	801	2010 Top 25 - Insecure Interaction Between Components	800
ChildOf	C	811	OWASP Top Ten 2010 Category A2 - Cross-Site Scripting (XSS)	809
ChildOf	C	864	2011 Top 25 - Insecure Interaction Between Components	900
ChildOf	C	931	OWASP Top Ten 2013 Category A3 - Cross-Site Scripting (XSS)	928
ChildOf	C	990	SFP Secondary Cluster: Tainted Input to Command	888
CanPrecede	6	494	Download of Code Without Integrity Check	1000
PeerOf		352	Cross-Site Request Forgery (CSRF)	1000
ParentOf	Ø	80	Improper Neutralization of Script-Related HTML Tags in a Web Page (Basic XSS)	699 1000
ParentOf	Ø	81	Improper Neutralization of Script in an Error Message Web Page	699 1000
ParentOf	Ø	83	Improper Neutralization of Script in Attributes in a Web Page	699 1000
ParentOf	Ø	84	Improper Neutralization of Encoded URI Schemes in a Web Page	699 1000
ParentOf	Ø	85	Doubled Character XSS Manipulations	699 1000
ParentOf	Ø	86	Improper Neutralization of Invalid Characters in Identifiers in Web Pages	699 1000
ParentOf	Ø	87	Improper Neutralization of Alternate XSS Syntax	699 1000
MemberOf	V		Weaknesses Used by NVD	635
MemberOf	V		CWE Cross-section	884
CanFollow	6		Improper Neutralization of CRLF Sequences in HTTP Headers ('HTTP Response Splitting')	1000
CanFollow	₿	184	Incomplete Blacklist	1000 6

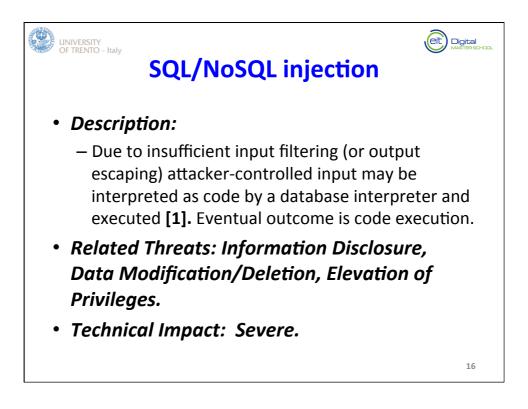
UNIVE OF TR	Common Weakness Enumeration (CWE)
	d Examples
	Description
<u>CVE-2008-</u> 5080	Chain: protection mechanism failure allows XSS
CVE-2006- 4308	Chain: only checks "javascript:" tag
<u>CVE-2007-</u> 5727	Chain: only removes SCRIPT tags, enabling XSS
CVE-2008- 5770	Reflected XSS using the PATH_INFO in a URL
<u>CVE-2008-</u> 4730	Reflected XSS not properly handled when generating an error message
CVE-2008- 5734	Reflected XSS sent through email message.
<u>CVE-2008-</u> 0971	Stored XSS in a security product.
CVE-2008- 5249	Stored XSS using a wiki page.
CVE-2006- 3568	Stored XSS in a guestbook application.
CVE-2006- 3211	Stored XSS in a guestbook application using a javascript: URI in a bbcode img tag.
CVE-2006- 3295	Chain: library file is not protected against a direct request (<u>CWE-425</u>), leading to reflected XSS.
	11

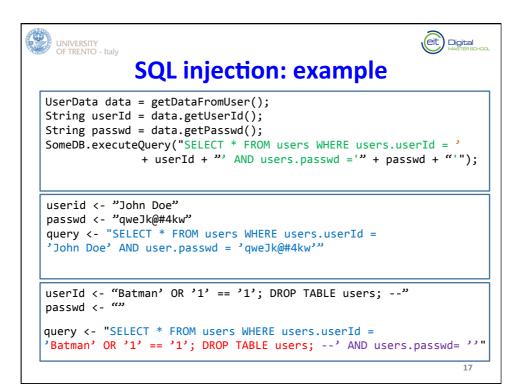


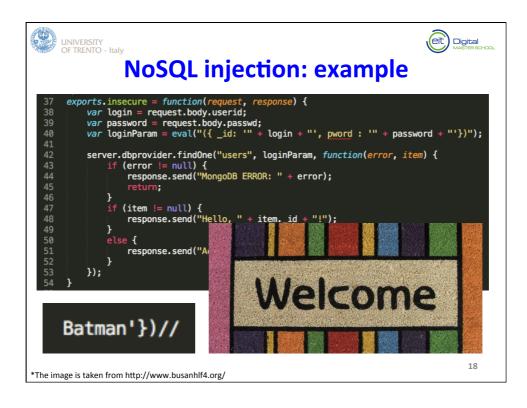
The National Vulnerability Database (NVD)	;al RSCHOOL
National Cyber Awareness System	
Vulnerability Summary for CVE-2014-0075	
Original release date: 05/31/2014	
Last revised: 08/22/2016	
Source: US-CERT/NIST	
Overview	
Integer overflow in the parseChunkHeader function in java/org/apache/coyote/http11/filters/ChunkedInputFilter.java in Apache Tomcat before 6.0.40, 7.x before 7.0.53, and 8.x t 8.0.4 allows remote attackers to cause a denial of service (resource consumption) via a malformed chunk size in chunked transfer coding of a request during the streaming of data	
Impact	
CVSS Severity (version 2.0):	
CVSS v2 Base Score: 5.0 MEDIUM	
Vector: (AV:N/AC:L/Au:N/C:N/I:N/A:P) (legend)	
Impact Subscore: 2.9	
Exploitability Subscore: 10.0	
CVSS Version 2 Metrics:	
Access Vector: Network exploitable	
Access Complexity: Low	
Authentication: Not required to exploit	
Impact Type: Allows disruption of service	
,	13

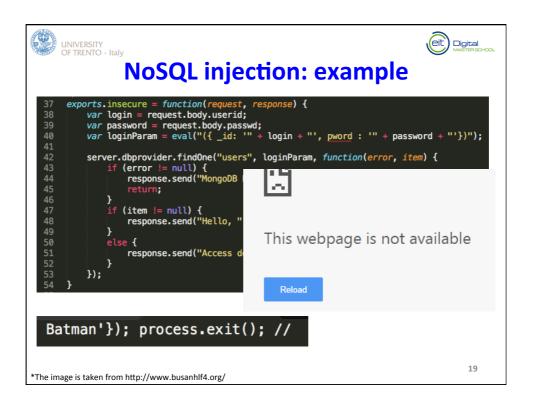




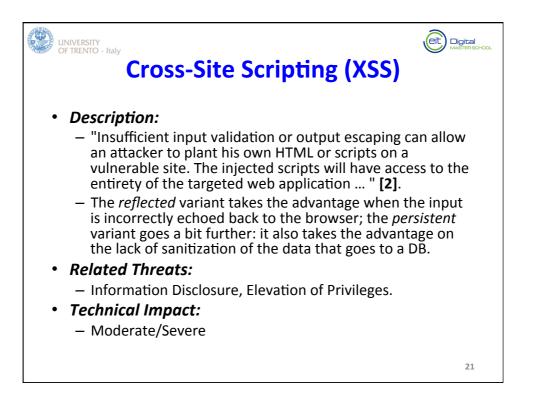


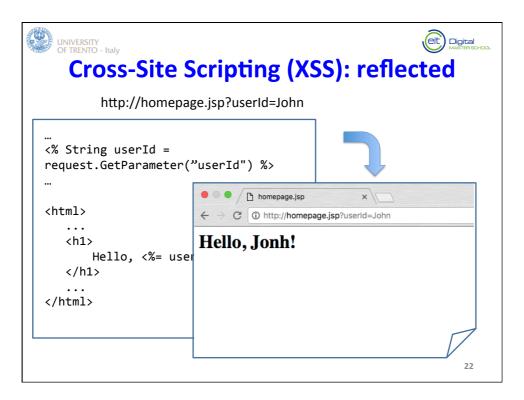




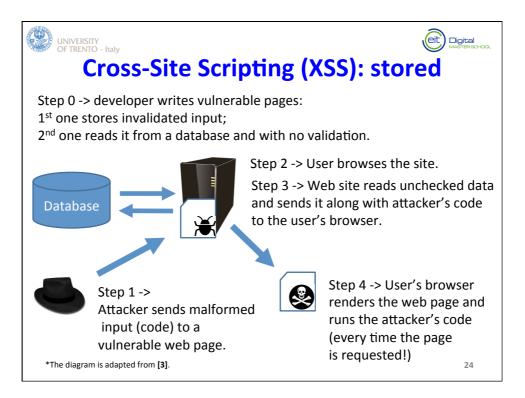


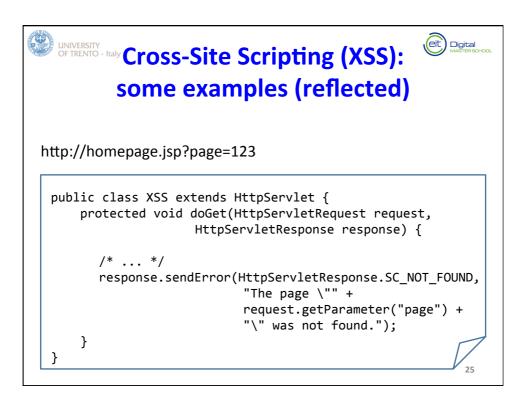
WIVERSITY OF TRENTO - Italy SQL/NoSQL injection: how to find it?				
• You should be suspicious if an application				
– Get	ts user input			
 Does not check/sanitize the input 				
 Uses this input to construct a query to a database 				
 Uses string operations (e.g., concatenation, replacement) to build a query 				
Language	Keywords			
Java (+JDBC)	sql, java.sql			
Python	pymssql,			
C#	Sql, SqlClient, OracleClient, SqlDataAdapter			
РНР	mysql_connect			
Node.js	<pre>require("mysql"), require("mssql"), require("mongodb")</pre>	20		

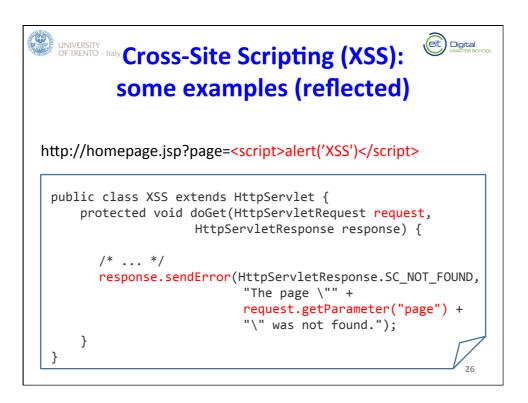


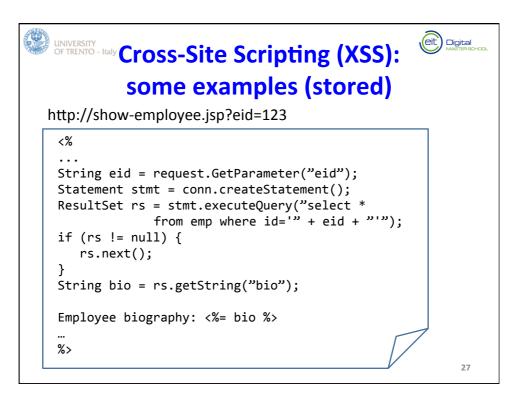


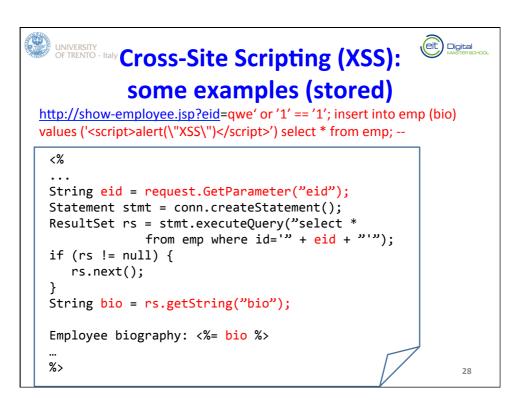
UNIVERSITY OF TRENTO - Italy Cross-Site	Scripting (XSS): reflected
http://homepa	age.jsp?userId= <script>alert('XSS');</script>
 <% String userId = request.GetParameter 	
<html></html>	
<pre><td></td></pre>	
	23

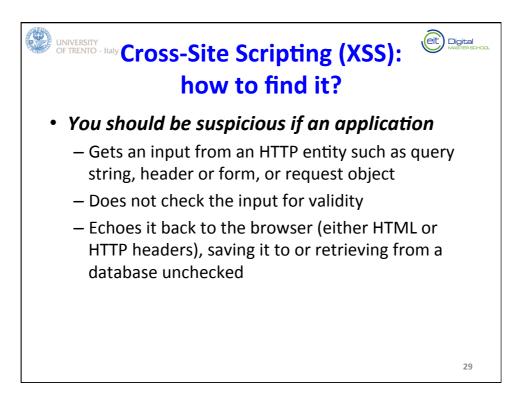




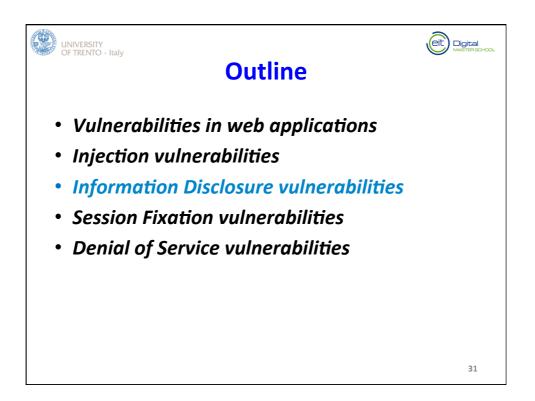


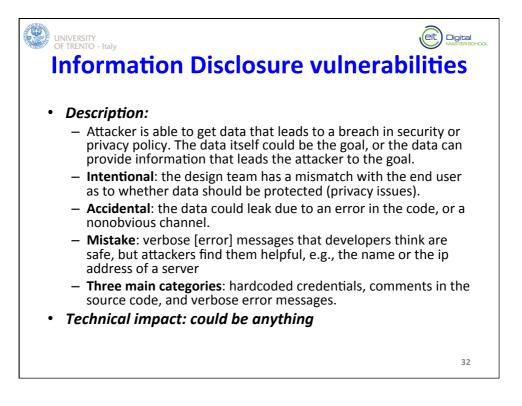


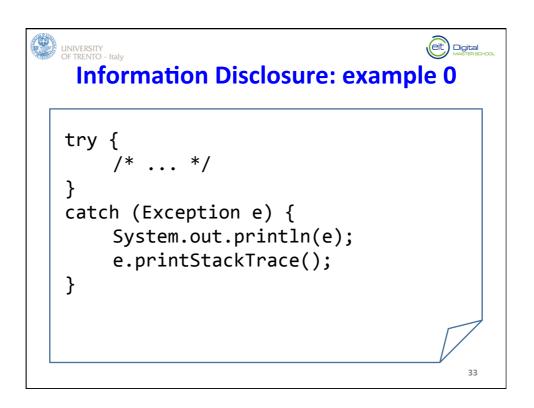




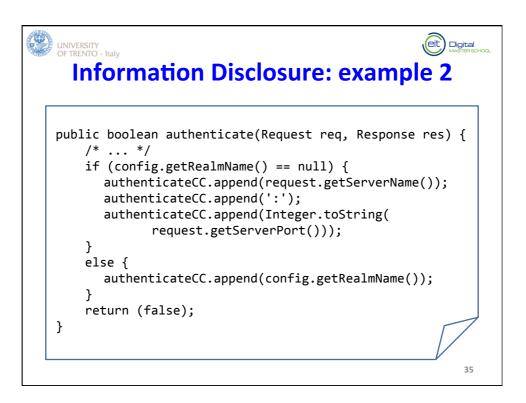
INIVERSITY OF TRENTO - Italy Cross-Site Scripting (XSS):			
La	anguage	Keywords	
Ja	ava (JSP)	<pre>addCookie,getRequest,request.getParameter followed by <jsp:setproperty <%="or" or="" pre="" response.sendredirect<=""></jsp:setproperty></pre>	
Py	ython	<pre>form.getvalue, SimpleCookie when the data is not validated correctly.</pre>	
Ci	#	Request.*, Response.*, and <%= when the data is not validated correctly.	
PI	HP	Accessing \$_REQUEST, \$_GET, \$_POST, or \$_SERVER followed by echo, print, header, or printf.	
N	lode.js	request, response,	

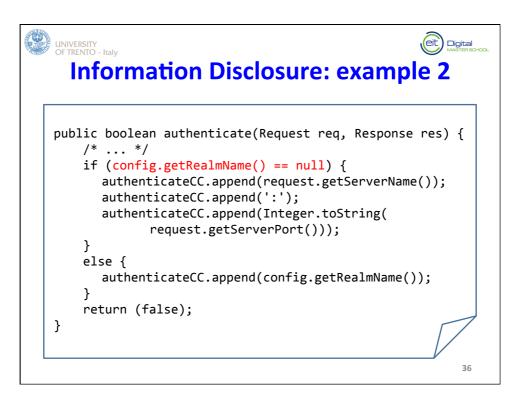


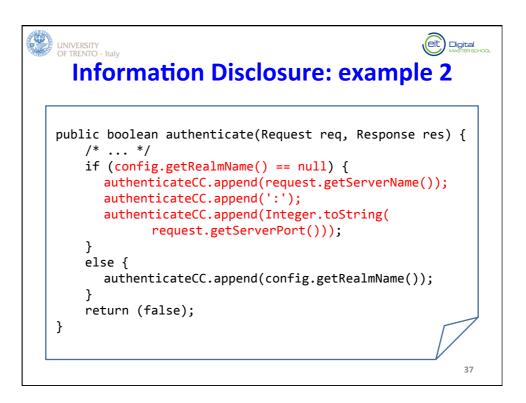


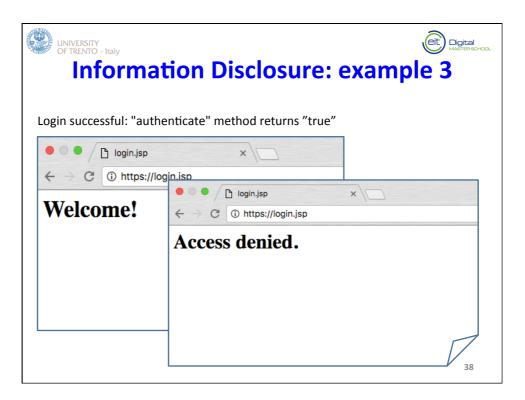


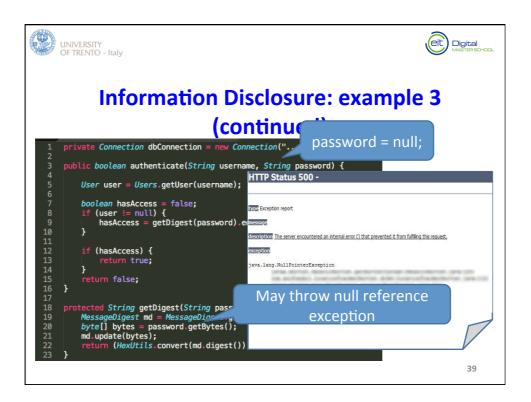
			f authenticate(uname, pword)	
1	php</th <th>2</th> <th>if uname == "":</th>	2	if uname == "":	
2	\$UName = " ";		return False	
3	\$PWord = "";	4 elif pword != """: 5 return False	elif pword != """:	
4	\$DB="";			
5	?>	6	else:	
		7	return True	
1	user name: pb-admin			
2	pword:	-		
	def authenticate(uname, pwor	d):		
	if uname==" " and	pword=	=""":	
	return True			
	else:			
	return False			

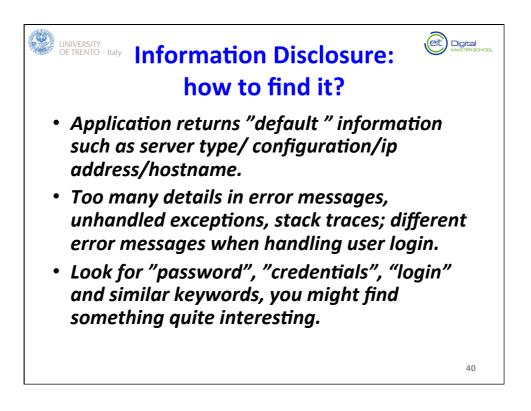


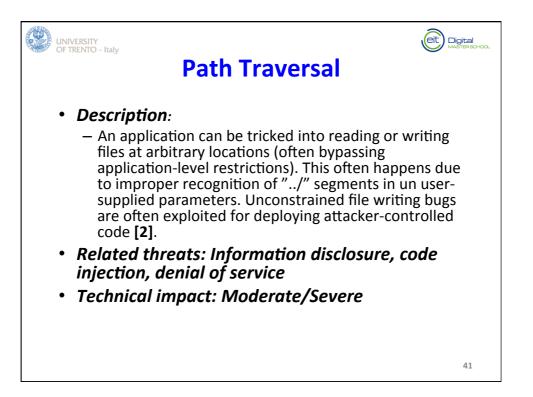


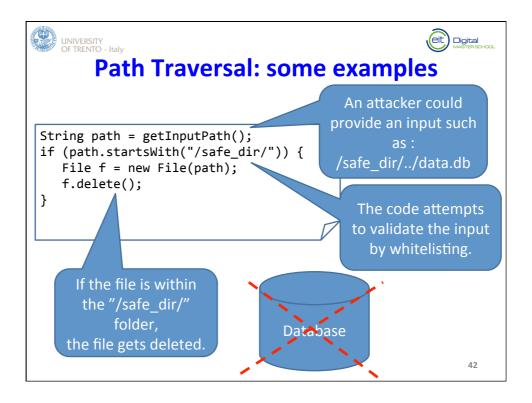


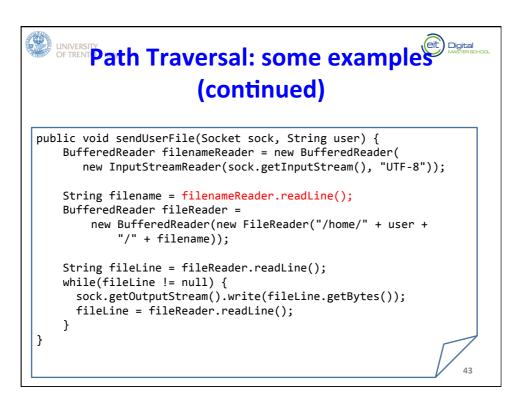


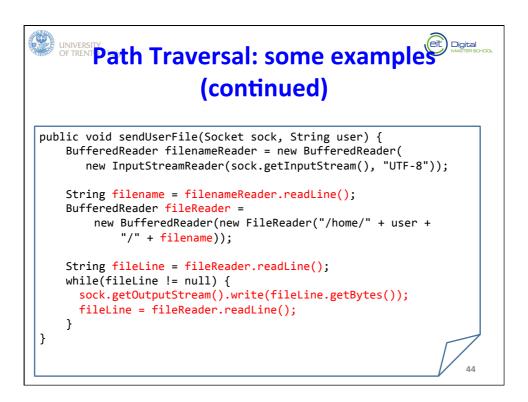




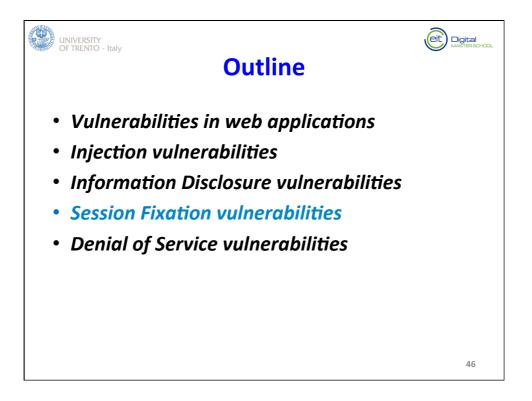


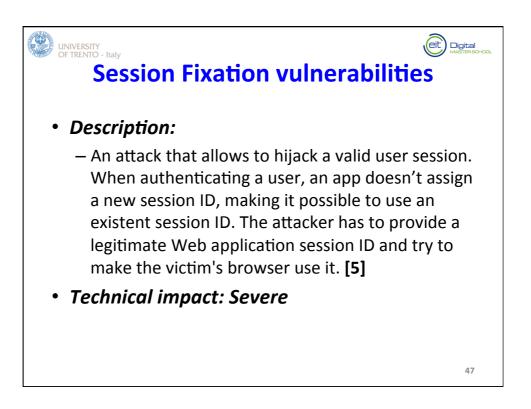


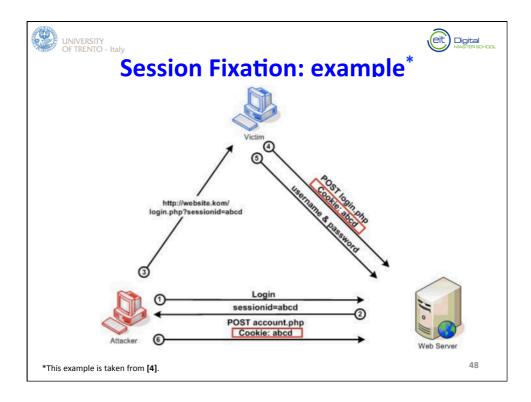


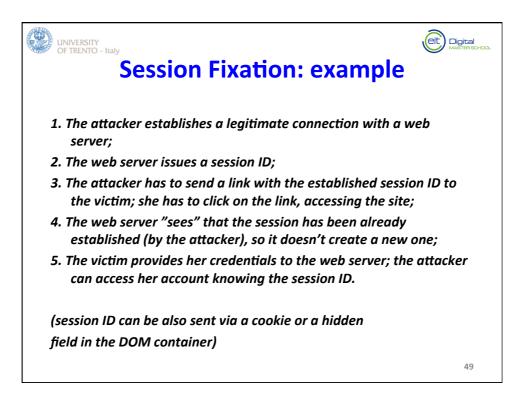


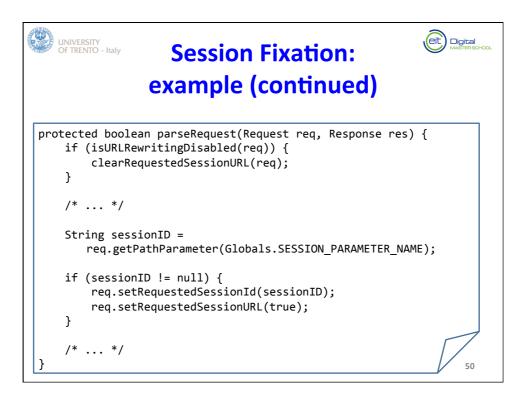


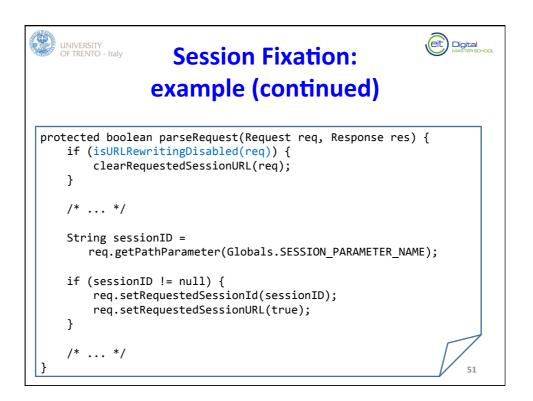


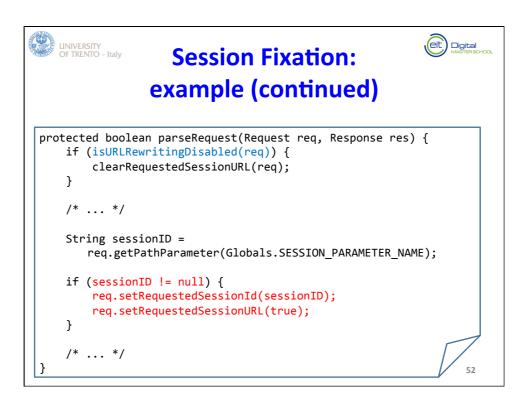


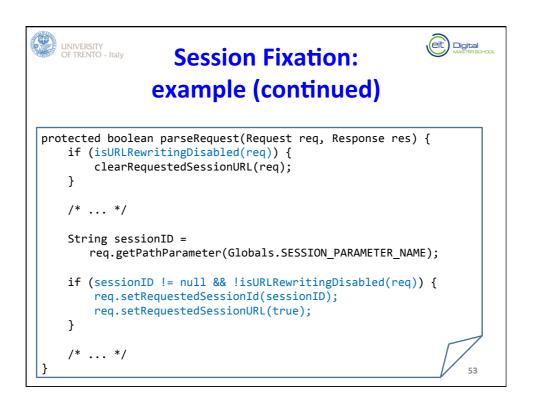


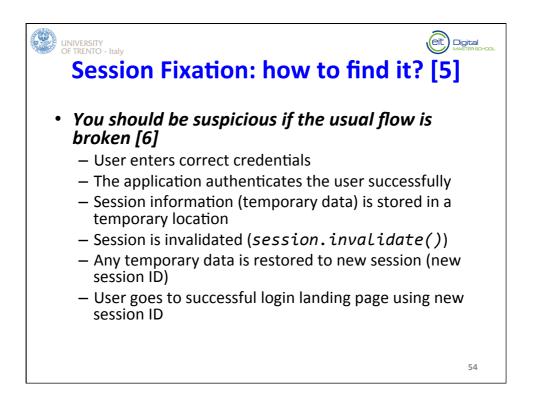




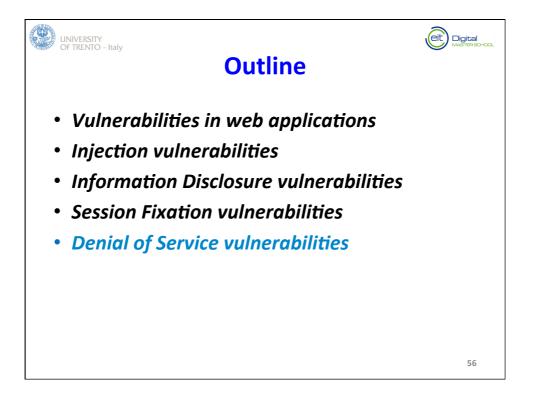


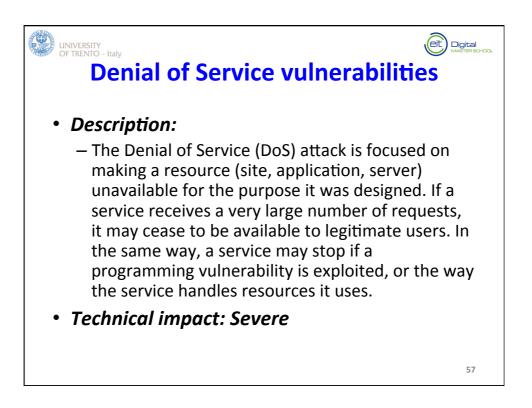


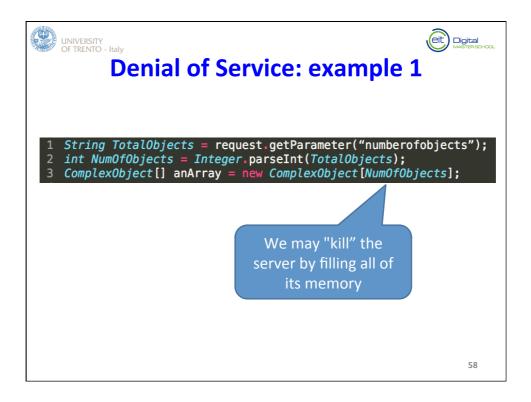


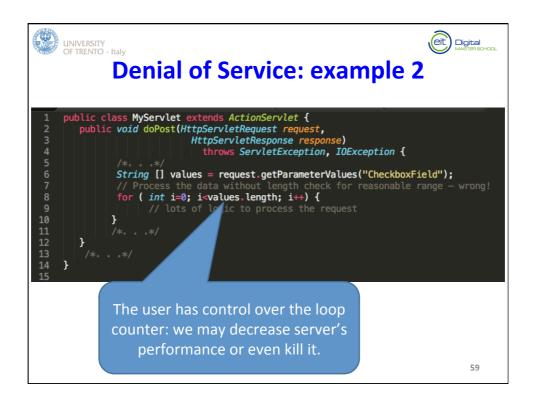












UNIVERSITY OF TRENTO - Italy Denial of Service: example 3
<pre>public class AccountDA0 { /* */ public void createAccount(AccountInfo acct) /* */ throws AcctCreationException { /* */ Connection conn = DA0Factory.getConnection(); CallableStatement calStmt = conn.prepareCall(); /* */ calStmt.executeUpdate(); calStmt.close(); catch (java.sqt SOLE</pre>

