

Legend		
	✓	True positive
	✗	False positive
	✓	True positive not found by pixy

[illegible]

<b>Total</b>
153

Pattern	
1	' /> <a href="http://unitn.it">Malicious Link</a><br '
2	1 -- ' /><a href="http://unitn.it">Malicious Link</a><br '
3	1)-- ' /><a href="http://unitn.it">Malicious Link</a><br '
4	1' -- '><a href="http://unitn.it">Malicious Link</a><br '

Vulnerabilities found by pixy

Variable Name	True Positive	Explanation	Proof of Concept	Pattern	Non-standard pattern
\$page	yes	This variable is set in index.php through the POST method and it is used to determine the "user's section" eg. AdminMain,TeacherMain, StudentMain etc. It is printed into any page as an hidden field without any kind of sanitization.	The injection is performed by concatenating a meaningful value with a malicious link	1	
\$page2	yes	Similar to \$page, this variable is set through POST method and used for page navigation. It is printed into any page as an hidden field without any kind of sanitization.	The injection is performed by concatenating a meaningful value with a malicious link	1	
\$_POST['student']	yes	As the name suggests this variable is used to specify the student. It is printed into an hidden field without any kind of sanitization	The injection is performed by concatenating a meaningful value with a malicious link	1	
\$_POST['semester']	yes	As the name suggests this variable is used to specify the semester. It is printed into an hidden field without any kind of sanitization	The injection is performed by concatenating a meaningful value with a malicious link	1	
\$_POST['fullyear']	yes	This variable is present only is AddClass.php. As usual the value is printed into an hidden field without sanitization	The injection is performed by concatenating a meaningful value with a malicious link	1	
\$_POST['delete']	yes	This variable is present in all the Edit*.php and it is printed into an hidden field without sanitization	The variable is used in an sql statement so I used the double dashes to make the query correct and inject a malicious link at the same time	2	Except for EditParent.java where pattern3 is used
\$_POST['onpage']	yes	This variable is printed into an hidden field without sanitization.	The injection is performed by concatenating a meaningful value with a malicious link	1	
\$_POST['selectclass']	yes	As the name suggests this variable is used to specify the class. It is printed into an hidden field without any kind of sanitization	The injection is performed by concatenating a meaningful value with a malicious link	1	Except for ManageGrades.java where pattern4 is used
\$coursename	yes	The variable is the result of a mysql query. It is then printed in the page without validation	The injection is performed by exploiting \$_POST['selectclass']	-	' union select concat(coursename,' <a href="http://www.unitn.it">Evil</a>') from courses where courseid = '1
\$_POST['assignment']	yes	The variable is printed on the page as an hidden field without any validation	The injection is performed by concatenating a meaningful value with a malicious link	4	
\$text	yes	The variable is the result of a mysql query. It is then printed in the page without validation	This is the case of a stored XSS: it is sufficient to save a malicious link in "Text for Login page" in the page ManageSchoolInformation.php. This value will be retrieved by Login.php thus triggering the XSS.		<a href="www.unitn.it">Evil</a>
\$message	yes	The variable is the result of a mysql query. It is then printed in the page without validation	This is the case of a stored XSS: it is sufficient to save a malicious link in "Message for Login page" in the page ManageSchoolInformation.php. This value will be retrieved by Login.php thus triggering the XSS.		<a href="www.unitn.it">Evil</a>
\$_POST['numperiods']	no	The variable is not sanitized but just a medium integer can be saved in the database	None	-	
\$_POST['numsemesters']	no	The variable is not sanitized but just a medium integer can be saved in the database	None	-	
\$_POST['schooladdress']	yes	The variable is not sanitized and the attacker has 50 characters maximum to inject an attack vector.	This injection is limited to the closure of a tag and the injection of a link		"><a href=goo.gl>Mal</a>
\$_POST['schoolphone']	yes	The variable is not sanitized however just 14 characters can be stored in the database. Personally I think it is really hard to find an attack but still the vulnerability is present	This injection is limited to the closure of a tag and the injection of a link		<a href=#>A
\$_POST['schoolname']	no	The variable is sanitized through "htmlspecialchars"	None		
\$term	yes	The variable is the result of a mysql query. It is then printed in the page without validation. Note that the injection is limited to 15 characters so again it is difficult to really exploit it.	The injection is limited to the injection of an empty link	-	<a href>T</a>

Additional vulnerabilities not found by Pixy

\$_POST['task']	yes	This variable is saved in the database without sanitization. When it is then retrieved a stored XSS is triggered.	The injection consists of a malicious link	-	<a href="http://unitn.it">Evil Link</a>
\$_POST['comment']	yes	This variable is saved in the database without sanitization. When it is then retrieved a stored XSS is triggered.	The injection consists of a malicious link	-	<a href="http://unitn.it">Link to Malware</a>
\$_POST['message']	yes	This variable is saved in the database without sanitization. When it is then retrieved a stored XSS is triggered.	The injection consists of a malicious link	-	<a href="http://unitn.it">Drive by download</a>