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Sommario/riassunto	2.1 Web Application Vulnerabilities Many web application vulnerabilities havebeenwell documented andthemi- gation methods havealso beenintroduced [1]. The most common cause ofthose vulnerabilities isthe insu'cient input validation. Any data originated from o- side of the program code, forexample input data provided by user through a web form, shouldalwaysbeconsidered malicious andmustbesanitized before use.SQLInjection, Remote code execution orCross-site Scriptingarethe very common vulnerabilities ofthattype [3]. Below isabrief introduction toSQL- jection vulnerability though the security testingmethodpresented in thispaper is not limited toit. SQLinjectionvulnerabilityallowsanattackertoillegallymanipulatedatabase byinjectingmalicious SQL codes into the values of input parameters of http requests sentto the victim web site. 1: Fig.1. An example of a program written in PHP which contains SQL Injection v- nerability Figure 1 showsaprogram that uses the database query function mysql query togetuserinformationcorrespondingtothe userspeci'edby the GETinput- rameterusername andthen printtheresultto the clientbrowser.Anormalhttp request with the input parameter username looks like "http://example.com/ index.php'username=bob". The dynamically created database query at line2 is "SELECT * FROM users WHERE username='bob' AND usertype='user'". Thisprogram is vulnerabletoSQLInjection attacks because mysql query uses the input value of username without sanitizingmalicious codes. A malicious code can be a stringthatcontains SQL symbols ork- words.Ifan attacker sendarequest with SQL code ('alice'-') - jected "http://example. com/index.php'username=alice'-", the query becomes "SELECT* FROM users WHERE username='alice'--' AND usertype='user'".