

## Web Application Security

### IMPORTANT NOTES:

**Study lecture materials at least 1 hour and prepare Q1 prior to the tutorial session. Prepared questions will be discussed in the tutorial session.**

1. Cookies can be used to identify a particular session between client and server. In combination with a TLS tunnel, cookies can provide a good solution for session identification, if the browser does not provide the cookie to another server, which it usually should not do. Why could an XSS attack still enable an attacker to take over the session?

Read [https://www.owasp.org/index.php/Cross-site\\_Scripting\\_\(XSS\)](https://www.owasp.org/index.php/Cross-site_Scripting_(XSS)) to learn about other possible XSS Attack Consequences and go through the examples.

2. A hacker discovered the following fact about an online music sales website Ktunes.com: when a client finalizes his music purchase, Javascript running on the client's web browser adds up the client's total order payment amount and sends the total to the Ktunes.com sales server. The server then charges this amount to the client's credit card.
  - (a) Explain why this fact reveals a vulnerability in the Ktunes.com website, and explain how the hacker can exploit this vulnerability to breach the website's security.
  - (b) Explain how Ktunes.com should change its web application design to remove this vulnerability.

## Assignment Project Exam Help

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