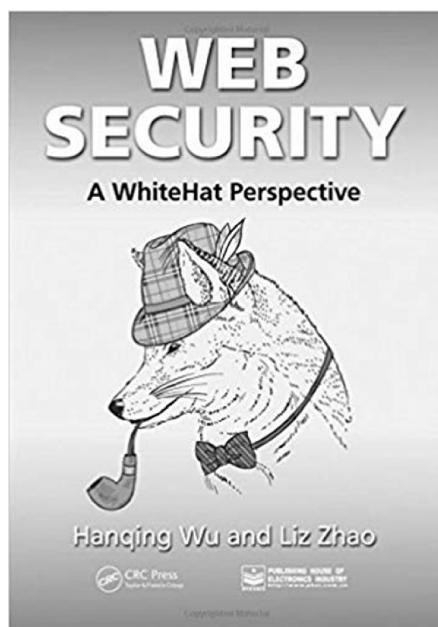
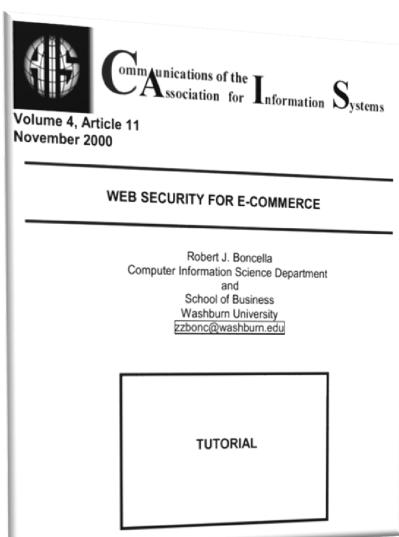


Website Security

PhD. Phan Thuong Cang
CIT - CTU
Spring 2019

1

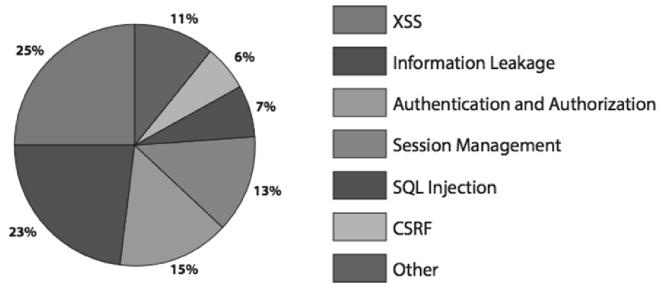
Textbook



2

Content

- **Introduction: web concepts**
- **Web security fundamentals**
- **Website security threats and their countermeasures**
 - Cross-Site Scripting (XSS)
 - SQL injection
 - Cross Site Request Forgery (CSRF)
 - Clickjacking
 - Denial of Service (DoS)
 - Directory Traversal
 - File Inclusion
 - Command Injection
 -
- **Web application security principles**
- **Lab:** LAMP, Tools to Scan Website Security Vulnerabilities & Malware, Information Leakage, Authorization, Web Application Security, SSL, Mod Security, General Configuration



3

Web application security principles

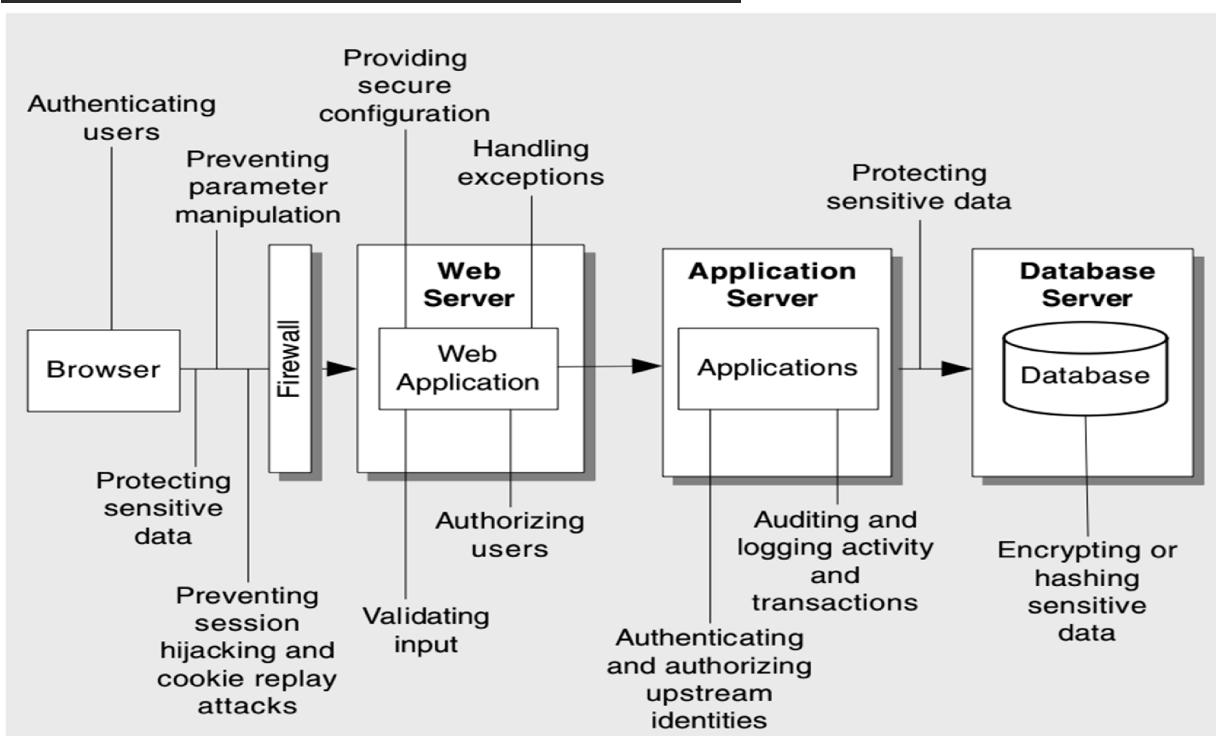


Figure 4.1
Web application design issues

4

Evaluation

- Theory: 40%
- Report (4 students): 20%
- Lab: 40%

5

Reports

1. Http, https, SSL
2. Cross-site scripting (XSS)
3. Cross site request forgery (CSRF)
4. Click jacking
5. Injection attacks
6. Authentication and session management
7. Denial of service - DoS
8. File inclusion attack
9. Command injection
10. Authentication and Authorization

6

Schedule

- Theory: 1, 2, 3, 13 (Exam)
- Student report: 7, 9, 11
- Lab: 6,8,10,12,14,15