

# Website Security

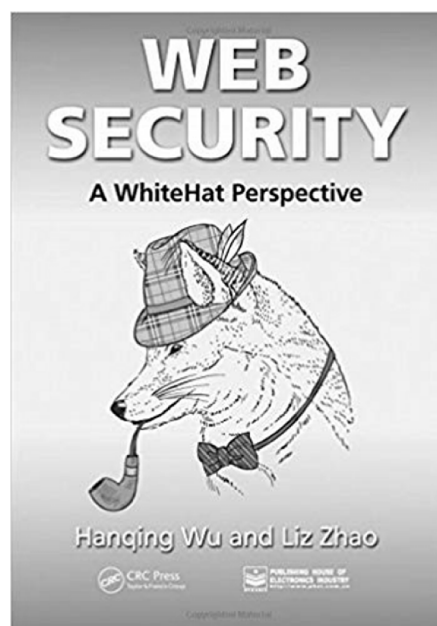
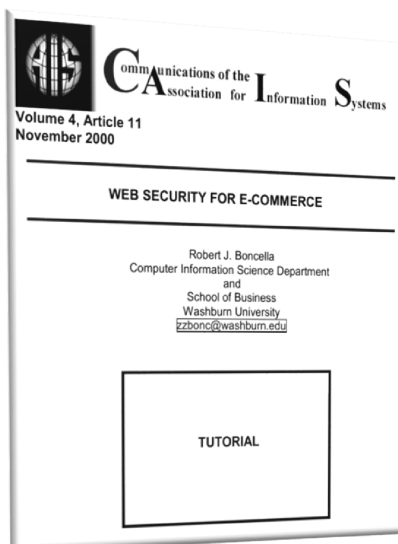
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## Textbook

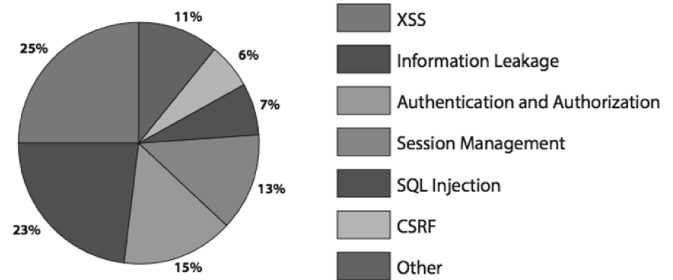
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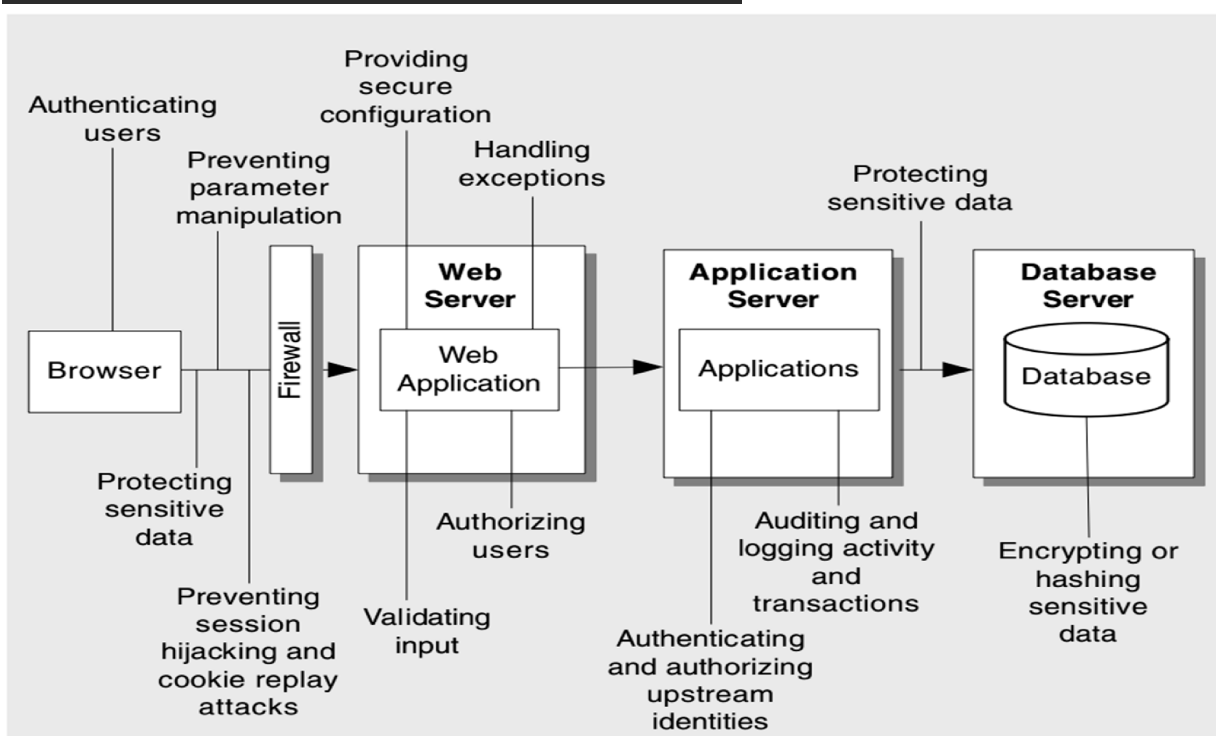
# Content

- ❑ **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



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## Web application security principles



**Figure 4.1**  
*Web application design issues*

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# Evaluation

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

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# Reports

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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

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# Schedule

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