Report on 5 Real-World Web Application Attacks

Attacks	Threats	Vulnerabilities	Affected Security Pillars	Risks Involved	Remediation	Mitigation	Citation
British Airways Data Breach (2018)	Injecting malicious code into its website	Inadequate website security	Confidentiality and Integrity	GDPR violation, Financial loss, Reputational loss	Stricter security control and enhanced monitoring	Conducting Regular assessment	- https://www.bbc.com/news/technology-54568784 - https://www.twingate.com/blog/tips/british-airways-data-breach - https://dpnetwork.org.uk/british-airways-data-breach-what-can-we-learn/
Fortnite Account Takeover (2019)	Vulnerabilities in login system	Insecure authentication	Confidentiality and integrity	Financial loss, Reputational loss	Implementing MFA	Continuous monitoring, regular updates and patches	- https://thehackernews.com/2019/01/fortnite-account-hacked.html - https://research.checkpoint.com/2019/hacking-fortnite/

eBay Data Breach (2014)	Stolen employee credentials	Weak authentication	Confidentiality and integrity	Financial loss, Reputational loss	Improvising network security and enhancing authentication	Regular training and robust IR plans	• https://www.twingate.com/blog/tips/ebay-data-breach • https://www.bbc.com/news/technology-27539799
The Equifax Breach (2017)	Vulnerability in Apache Struts to access sensitive data	Unpatched software and poor security practices	Confidentiality and integrity	Legal fine, Reputational loss	Timely patch management	Regular scans and updates	• https://en.wikipedia.org/wiki/2017_Equifax_data_breach • https://www.hypr.com/security-encyclopedia/equifax-security-breach
Estonia Cyber attack (2007)	DDoS attack	Limited security measures	Availability	Legal, Financial and Reputational loss	National cybersecurity strategy	DDoS protection	• https://en.wikipedia.org/wiki/2007_cyberattacks_on_Estonia