

Capstone Security Assessment - ASX 'Trading Wheels' - Incom Systems

OWASP Top 10 - 2017 (New)	
A1 - Injection	
A2 - Broken Authentication and Session Management	
A3 - Cross-Site Scripting (XSS)	
A4 - Broken Access Control (Original category: A305/A306)	
A5 - Security Misconfiguration	
A6 - Sensitive Data Exposure	
A7 - Insufficient Attack Protection (NCA)	
A8 - Cross-Site Request Forgery (CSRF)	
A9 - Using Components with Known Vulnerabilities	
A10 - Unvalidated Redirects (NCA)	

Assessment of Functional Applications with respect to OWASPTOP10-2017rc1:

<https://github.com/OWASP/Top10/raw/master/2017/OWASP%20Top%2010%20-%202017%20RC1-English.pdf>

We assessed the three working parts of our delivered system (Desktop Application, Mobile Application and the Back-End Processes) for each of the top ten threats.

For each threat, we assess the Exploitability, Prevalence, Detectability and Impact.

Threat:	Desktop Application	Mobile Application	Back-End
A1 - Injection	Exp: Average Prev: Common Det: Average Impact: Moderate	Exp: Average Prev: Common Det: Average Impact: Moderate	Exp: Difficult Prev: Common Det: Average Impact: Moderate
A2 - Broken Auth & Sess. Management	Exp: Difficult Prev: Uncommon Det: Difficult Impact: Minor	Exp: Difficult Prev: Uncommon Det: Difficult Impact: Minor	Exp: Difficult Prev: Uncommon Det: Difficult Impact: Minor
A3 - Cross_Site Scripting	N/A	N/A	N/A
A4 - Broken Access Control	Exp: Difficult Prev: Uncommon Det: Difficult Impact: Severe	Exp: Difficult Prev: Uncommon Det: Difficult Impact: Severe	Exp: Difficult Prev: Uncommon Det: Difficult Impact: Severe
A5 - Security Misconfiguration	Exp: Difficult Prev: Uncommon Det: Difficult Impact: Severe	Exp: Difficult Prev: Uncommon Det: Difficult Impact: Severe	Exp: Difficult Prev: Uncommon Det: Difficult Impact: Severe
A6 - Sensitive Data Exposure	Exp: Difficult Prev: Uncommon Det: Difficult Impact: Severe	Exp: Difficult Prev: Uncommon Det: Difficult Impact: Severe	Exp: Difficult Prev: Uncommon Det: Difficult Impact: Severe
A7 - Insufficient Attack Protection	Exp: Average Prev: Uncommon Det: Average Impact: Minor	Exp: Difficult Prev: Uncommon Det: Difficult Impact: Minor	Exp: Difficult Prev: Uncommon Det: Difficult Impact: Minor
A8 - Cross-Site Request Forgery	N/A	N/A	N/A
A9 - Components with Vulnerabilities	Exp: Average Prev: Common Det: Average Impact: Minor	Exp: Average Prev: Common Det: Average Impact: Minor	Exp: Difficult Prev: Uncommon Det: Difficult Impact: Minor
A10 - Underprotected APIs	Exp: Difficult Prev: Uncommon Det: Average Impact: Severe	Exp: Difficult Prev: Uncommon Det: Difficult Impact: Severe	Exp: Difficult Prev: Uncommon Det: Difficult Impact: Severe