



Making Malaysian Cashless Transactions Secure

QA
Services

Success Story

Client - Server Architecture



Indium Software has domain as well as technical experience that made it a suitable partner to meet the client's requirements. Indium software had also earlier worked with the client on another project, proving its credibility and capability.

Additionally, Indium software's validation framework conforms to OWASP Top 10, which helps testers build their own testing programs and lists the latest security breaches to watch out for.

Indium software also helps financial institutions prepare for PCI compliance. Though it cannot certify an app as PCI compliant, it has the testing capability, we prepare our clients for first-pass certification.

Our Value Adds

Indium software undertook security testing on Android, iOS, the POS device as well as Windows covering the following seven threats to the payment app:

- Malicious code attack
- Malware
- Denial of services
- Phishing
- Ransomware
- Web based attacks
- Stolen Devices

- Python Basic level Scripting.
- Burp Suite (Trial Version)

The proprietary Python scripts we used to find hidden:

- Form field / page / links but was not able to find the hidden form field since it is been protected from the source code.
- To find banner grabbing. We were able to run the script and find the server version (information leakage).
- For SQL detection and was unable to run the script

Indium Software Advantage

While Indium software uses all the right tools for security testing, they alone cannot produce insights into the gravity and relevance of a problem. Therefore, we also supplemented it with manually test, using:

Impact

The security vulnerabilities found by Indium software were,

For Web - Vulnerabilities in broken authentication and session management, sensitive data exposure and cross-site request forgery

For Mobile - Insecure data storage, insecure authentication and insecure authorization.

This helped the developers fix the bugs and roll out a secure app and procure the PCI certification.

Indium software also provided remediation measures to prevent security threats in the future.

Ongoing Requirement

As new features gets added, as the technology evolves, the threats too get compounded. OWASP periodically updates the list of threats and Indium software keeps abreast of these developments. This enables Indium software to work closely with developers to constantly strengthen their products and apps against security threats release after release, on an ongoing basis.



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