

A SOFTWARE AND IT SERVICES ORGANIZATION PREPARES ITSELF FOR THE EVOLVING CYBER THREATS

Mobile Application & API VAPT | Case Study

ABOUT THE CLIENT

The client specializes in IoT-driven mobility solutions in the fields of HR, education, customer service and app development. The company aims to solve real-world problems with simple and smart solutions by leveraging secure, disruptive, & easily adoptable technology and resources.

BUSINESS REQUIREMENT

The client faced issues in identifying security gaps in the client-side code of their mobile application, hence wanted Dynamic Application Security Testing (DAST) for the traffic generated, as well as a comprehensive examination of the application's APIs.

AUTOMATED TESTING UTILITIES

- ✓ BurpSuite Pro
- ✓ Postman
- ✓ MobSF
- ✓ ADB Shell
- ✓ JADX-GUI
- ✓ Genymotion
- ✓ Drozer
- ✓ Frida



50% Faster Results



40% Lesser Costs

Full coverage on Mobile OWASP Top 10, SANS 25

PROCEDURE FOLLOWED



Implemented Static and Dynamic Application Security Testing (SAST & DAST) & conducted a VAPT to examine the mobile application 'apk' file



Assigned weights to all the security gaps based on their severity and business impact



Recommended an effective remediation plan for an enhanced application security

OBSERVATIONS

- Vulnerabilities related to insecure data storage as sensitive data was stored in an unencrypted format and also in a location easily accessible to unauthorized users.
- Application offered extraneous functionality as it had features that are not required by the user, but can be exploited by attackers to gain unauthorized access to the system.
- Found insufficient cryptography with weak encryption algorithms as app failed to implement encryption best practices.

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