



Gambar 6. Hubungan antara ancaman, tujuan keamanan dan SFR sesuai dengan alur *Common Criteria Framework*

Tetapi, tidak menutup kemungkinan akan timbulnya ancaman - ancaman lainnya terhadap aplikasi pelelelangan di waktu yang akan datang. Jika benar ancaman akan muncul di waktu mendatang, maka alur *Common Criteria Framework* dapat digunakan dari awal untuk mengembangkan penelitian yang telah dilakukan sekarang.

5. Kesimpulan

Dalam penelitian ini, kami telah membuat dokumen *protection profile* untuk sistem validasi kedatangan dan kepulangan siswa berbasis *fingerprint*. Hasil penelitian sudah menunjukkan bahwa keamanan sistem validasi sudah sesuai dengan dokumen PP yang telah dibuat dan berjalan secara maksimal untuk ancaman - ancaman yang sudah diidentifikasi.

Selanjutnya untuk penelitian kedepan, dapat dilakukan penelitian lebih lanjut mengenai ancaman - ancaman yang dapat terjadi pada sistem validasi dan meneliti SFR lainnya yang dapat diterapkan pada sistem validasi sehingga membuat sistem yang dirancang menjadi lebih aman.

Daftar Pustaka

- [1] Bisnis.com, "Jumlah kasus penculikan anak meningkat, tilik pesan kpai ini." <https://gaya.tempo.co/read/1142584/jumlah-kasus-penculikan-anak-meningkat-tilik-pesan-kpai-ini/full&view=ok>, nov 2018. online; Last accessed August 19th 2019.
- [2] D. Triatmojo, "Kpai catat ada 8 juta pemberitaan penculikan anak dalam empat bulan terakhir." <https://www.tribunnews.com/nasional/2018/11/03/kpai-catat-ada-8-juta-pemberitaan-penculikan-anak-dalam-empat-bulan-terakhir>, nov 2018. online; Last accessed August 19th 2019.
- [3] National Information Assurance Partnership, *Protection Profile for Application Software 1.1*, nov 2014.
- [4] Common Criteria, *Common Criteria for Information Technology Security Evaluation 3.1*, apr 2017.
- [5] D. Packer, "Verification vs validation: Do you know the difference?." <https://www.plutora.com/blog/verification-vs-validation>, apr 2019. online; Last accessed August 19th 2019.
- [6] W. Kennedy and A. Olmsted, "Three factor authentication," *The 12th International Conference for Internet Technology and Secured Transactions (ICITST-2017)*, IEEE, dec 2017.
- [7] A. Bissada and A. Olmsted, "Mobile multi-factor authentication," *2017 12th International Conference for Internet Technology and Secured Transactions (ICITST)*, IEEE, dec 2017.

- [8] B. MONTAÑO, "Biometric validation method and biometric terminal." patentimages.storage.googleapis.com/96/fa/81/9537d44958c689/EP2911106A1.pdf, aug 2015. online; Last accessed August 19th 2019.
- [9] M. Rouse, "Common criteria (cc) for information technology security evaluation." <https://whatis.techtarget.com/definition/Common-Criteria-CC-for-Information-Technology-Security-Evaluation>, mar 2011. online; Last accessed August 19th 2019.
- [10] S. Rika Putri, "Mengatasi masalah penyimpanan arsip dalam manajemen perkantoran modern." shor-turl.at/frwOU, nov 2013. online; Last Access August, 20th 2019.
- [11] M. Derfouf, A. Mimouni, and M. Eleuldj, "Vulnerabilities and storage security in cloud computing," *2015 International Conference on Cloud Technologies and Applications (CloudTech)*, IEEE, jun 2015.
- [12] C. Rath, "Usable privacy-aware logging for unstructured log entries," *11th International Conference on Availability, Reliability and Security (ARES)*, pp. 272–277, 2016.
- [13] R. Yasirandi, Y. A. Setyoko, and P. Sukarno, *Security Document for Smart Parking Gate based on Common Criteria Framework. 2019 7th International Conference on Information and Communication Technology (ICoICT)*, Malaka, Malaysia, jul 2019.
- [14] P. G. et al, *MINEX Performance and Interoperability of the INCITS 378 Fingerprint Template*. National Institute of Standards and Technology, mar 2006.
- [15] A. Web, "6 kelebihan mesin absensi biometrik fingerprint." <http://sidik-jari.com/6-kelebihan-mesin-absensi-biometrik-fingerprint.html/>, apr 2017. online; Last accessed August 20th 2019.
- [16] M. Rouse, "Restful api." <https://searchapparchitecture.techtarget.com/definition/RESTful-API>, jun 2019.
- [17] Y. K, "Apa itu web server dan fungsinya?." <https://www.niagahoster.co.id/blog/web-server-adalah/>, apr 2018. Online; Last access August 20th 2019.
- [18] Cybersecurity and I. S. A. (CISA), "Avoiding social engineering and phishing attacks." <https://www.us-cert.gov/ncas/tips/ST04-014>, jun 2019. online; Last accessed August 19th 2019.
- [19] S. CCTV, "Cara menggunakan fingerprint." <http://www.stealth.co.id/cara-menggunakan-fingerprint/>. online; Last accessed August 19th 2019.