IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal
Impact Factor: 7.53
Volume 4, Issue 3, February 2024

"Quick-Cash "
(A QR-Based Smart ATM)

Mr. Anup Sonawane[1], Mr. Harshal Mahajan[2], Mr. Rohit Hire[3], Mr. Manish Pagare[4], Mr. Krishna Kadam[5]
HOD, Department Of Information Technology[1]
Students, Department of Information Technology[2,3,4,5]
Mahavir Polytechnic, Nashik, India

Abstract: *In this innovative proposal, we present a secure alternative to traditional ATM transactions, addressing vulnerabilities associated with physical card swiping. Our system leverages QR codes, seamlessly integrated into smartphones and wearable devices, eliminating the need for a physical ATM card. To enhance security, an extended eight-digit PIN is employed, generated by a dedicated background server for each transaction. This server not only oversees transactions but also links them to the user's bank account in real-time. By utilizing QR codes and an advanced PIN system, our solution mitigates risks associated with shoulder surfing, replay attacks, and ATM card skimming, providing users with a robust and secure means of conducting ATM transactions.*

Keywords: ATM, credit card, ATM card, security, QR code, PIN security, attacker, cyber criminal's

REFERENCES

[1] SEPIA: Secure-PIN-Authentication-as-a-Service for ATM using Mobile and Wearable Devices. Rasib Khan, RagibHasan, and Jin fang XuSECRETLab, Department of Computer and Information Sciences.
[2] "Secure mobile-based financial transactions," S. N. White , Feb 2013, US Patent 8,374,916
[3] "Understanding credit card frauds," T. P. Bhatla, V. Prabhu, and A. Dua Cards business review, vol. 1, no. 6, 2003.
[4] "Cloning credit cards: A combined pre-play and downgrade attack on emv contactless." M. Roland and J. Langer, in Proceedings of The 7th USENIX Workshop on Offensive Technologies, 2013.
[5] R. Anderson, "Why cryptosystems fail," in Proceedings of the 1st ACM Conference on Computer and Communications Security. ACM, 1993.