

Cardless ATM System

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Abstract: Banks provide ATM cards to customer to avail the services like cash withdrawal, PIN change, balance inquiry etc. But physical cards have some problems. It can be stolen, skimmed, cloned, hijacked, damaged or expired. Due to this problem, we need to think an alternate way to provide better security. Many researchers are thinking about cardless transaction through ATM Automated Teller Machine (ATM) transactions are found safe, reliable, and inevitable these days for fulfilling our financial commitments. Traditional approach for using ATM mandates involvement of Debit card. But however, people do experience times when their account lacks balance amount or they forget to carry card and struggle to complete transaction. We know that parallel to ATM usage, mobile phones' usage has also been an inevitable trend. Establishing a connection between these e-gadgets has ignited a simple and effective approach to withdraw cash without the involvement of debit card which can be referred to as card less cash withdrawal. Face detection and OTP is used for authentication of user. This along with Face detection comprises two levels of security. When Face and OTP are matched then customer's account will open in ATM machine.

Keywords: Face Detection, ATM Machine, OTP, Cardless Transaction, Debit Card, Credit Card, Financial, Withdraw, Cash, Security, Face Recognition, etc

REFERENCES

- [1] KhushbooYadav; SuhaniMattas; LipikaSaini; Poonam Jindal, "Secure Card-less ATM Transactions", 2020 First IEEE International Conference on Measurement, Instrumentation, Control and Automation (ICMICA)
- [2] OTP Based Cardless Transaction using ATM Md. Al Imran, M.F. Mridha, Md. KamruddinNur 2019 International Conference on Robotics,Electrical and Signal Processing Techniques (ICREST), doi:10.1109/ICREST.2019.8644248
- [3] Hassan, Ahsana; George, Aleena; Varghese, Liya; Antony, Mintu; K.K, Sherly (2020).The Biometric Cardless Transaction with Shuffling Keypad Using ProximitySensor.(),505–508. doi:10.1109/ICIRCA48905.2020.9183314
- [4] Banerjee, Indranil; Mookherjee, Sjivangam; Saha, Sayantan; Ganguli, IEEE 2019 International Conference – "Advanced ATM System Using Iris Scanner".
- [5] Tyagi, Abhishek; Ipsita,; Simon, Rajbala; khatri, Sunil Kumar , 2019 4th International Conference on Computer Networks – "Security Enhancement through IRIS and Biometric Recognition in ATM".
- [6] Mahansaria, Divyans; Roy, Uttam Kumar 2019 International Carnahan Conference on Security Technology (ICCST) – "Secure Authentication for ATM transactions using NFC technology".
- [7] Kale, Priyanka Hemant; Jajulwar, 2019 9th International Conference on Emerging Trends in Engineering and Technology – "Design of Embedded Based Dual Identification ATM Card Security System".
- [8] Finger shield ATM – ATM Security System using Fingerprint Authentication Christiawan1, Bayu Aji Sahar2, Azel Fayyad Rahardian3, ElvayandriMuchtardoi:10.1109/ISESD.2018.8605473.
- [9] Swathi, H; Joshi, Suraj; Kiran Kumar, M.K. (2018). [IEEE 2018 Second International Conference on Advances in Electronics, Computers and Communications (ICAECC) - Bangalore, India (2018.2.9-2018.2.10)]
- [10]Embarak, Ossama H. (2018). [IEEE 2018 Fifth HCT Information Technology Trends (ITT) - Dubai, United Arab Emirates (2018.11.28-2018.11.29)] 2018 Fifth HCT Information Technology Trends (ITT).

