CARDLESS ATM

ABSTRACT

The objective of the project is to limit unauthorized access and provide better security during money transmission. Credit card fraud is a major problem in today's world. Financial institutions has registered field loses currently due to users being unprotected of their assets and card information. The present system of authentication of ATM is mostly dependent on pin-based verification. Factors such as urgency, memorization of pins, speed of interaction, unintentional pin sharing affect diversely for the current system.

There are many threats regarding ATM like shoulder-surfing or observation attacks, including card skimming and video recording with hidden cameras while users perform PIN-based authentication at ATM terminals is one of the common threats for common users. Cards Security is one of the most important or a key factor which is said or to be considered in data transmission. And the next key factor is the Authentication, which is necessary to protect any system authentication must be provided, so that only authorized persons can have right to use or handle that system & data related to that system securely. Card-less transaction are getting popular, where users can use mobiles phones to perform the financial transaction. Researchers have struggled to come up with secure solutions for secure PIN authentication. ATM custodian user utilizes a mobile device for scanning a QR code on the terminal screen to prove co-location to the server and obtain a secure one time PIN for point-of service authentication. ATM custodian ensures minimal task overhead on the user's device with maximal computation offloaded to the cloud.

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