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A project report on [06EC85]

“CREDIT CARD SECURITY IN REAL TIME USING GSM”

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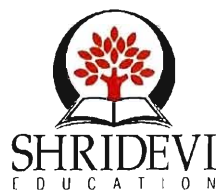
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ABSTRACT

One technical innovation can provide solution to diverse problems. Money has become plastic these days. The introduction of utility cards, mobile banking and internet banking has revolutionized the way we deal with money. The sophistication they bring into one's life is commendable. They make our work convenient. But there lies a potential problem, security. The thrust area is that every transaction of the account should be done with the consent of the customer or account holder. This is possible through the wide spread mobile phone technology. Here mobile phone acts as the interactive medium between account holder and bank. One's hard earned money should not go into the hands of unworthy persons. This noble theme helped us to think of the innovation –**“CREDIT/DEBIT CARD SECURITY IN REAL TIME USING GSM”**. The implementation of this takes the help of RFID card, RFID reader, Server and Client, MICRO CONTROLLER, mobile network and software like Keil.

The project sets sight on authenticating the conventional Credit card transaction system. In the prevailing system though the Credit card paves a convenient mode of transactions, it is subjected to more jeopardy. As technology extends its limit, the way of hacking and cracking also goes along the road. In the proposed system, in every transaction with the Credit card a handshaking signal is achieved with the cardholder. The handshaking method is achieved by transferring the transaction time and the purchase details to the mobile of the cardholder by means of a GSM modem. From the acknowledgement and authentication received from the cardholder's mobile further transaction proceeds. The system used the Micro Controller Unit (MCU) for the security issues between the Mobile and the Card. The cardholder will be asked for a reply by the GSM modem message. The message from the cardholder is the major authentication command. The MCU decodes the message and decides the operation to be performed.