

## ABSTRACT

In contemporary banking operations, threats such as transaction intrusion, Man-in-the-Middle attacks, and money laundering loom large, posing risks to both banks and their customers. This project endeavors to bolster security and streamline efficiency in financial transactions by harnessing blockchain technology. It introduces a meticulous three-step verification protocol for both clients and administrators within the system. Clients first register, their data securely stored in the database, then administrators meticulously verify and maintain this information. Upon logging in, clients gain access to their account balances, can update their details, and initiate transactions, including fund transfers via UPI ID. The UPI ID undergoes rigorous validation against the database, with an OTP sent to the client's email for further confirmation. In case of email OTP retrieval failure, clients have the option to use their credentials to receive the OTP. Once confirmed, transactions proceed, promptly updating respective bank balances. Administrators assume the responsibility of overseeing client management. This approach heralds a new era of security and transactional fidelity in banking and financial exchanges, courtesy of blockchain innovation.