

# *Survey on Cash Withdrawal from ATM machine using Mobile Banking*

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**Abstract:** - Aim of this analysis paper is to propose associate increased feature to enhance the service of ATM money withdrawal in less time with a lot of level of security. This analysis is to mix the ATM & Mobile banking to cut back the time of withdrawal cash from ATM with increasing level of security by adding a brand new feature within the Mobile banking. There's no amendment needed to the prevailing system however some addition needed, that makes no impact on existing system. This analysis, which is able to increase the speed of money withdrawal virtually three times fast; may have positive impact on the customer's satisfaction, if correct functioning is ensured by the banks. The analysis may be employed by Banks to enhance the services of ATM and might enhance the satisfaction of their customers & save price for brand new ATMs.

**Keywords:** ATM, Mobile banking, OTP (One Time Password).

## **I. INTRODUCTION**

As we are able to see, money withdrawal has evolved with Bank era to ATM era similarly as alternative services like balance check, fund transfer evolved from physical banks to e-banking and from ebanking to Mobile-banking [5],[6]. Purpose of this transformation is to save lots of client time, to extend the accuracy and to form system safer. During this quick running world, banks are left with no possibility however to adopt the technological changes to satisfy their customer's needs. During this approaching feature, the most purpose is to utilize the waiting time of shoppers in ATM queue, so the particular ATM money withdrawal time may be reduced similarly as save price to put in new ATMs for monetary establishments.

Like alternative options – balance check, fund transfer, dealings sign up Mobile banking [7], a replacement feature of money withdrawal are accessorial within the list of choices. Customers, UN agency desires to withdrawal the money, can login in their Mobile banking and do money withdrawal dealings a bit like on ATM machine victimization "Cash withdrawal" feature. Once the method of money withdrawal is completed on Mobile, dealings aren't completed really and there's no amendment in account balance; as a result of client failed to get any money nonetheless. For security reason, a replacement Arcanum (OTP) is provided to finish the dealings on ATM machine. A replacement table are created on Bank server, which is able to maintain all money withdrawal dealings created victimization Mobile banking. Records of dealings during this new table is temporary, which is able to stay for a specific fastened period or until it's really completed; whichever comes earlier. There'll be distinctive entry for every account, as a result of system isn't allowing over one unfinished dealings for one account.

To get the money, once completed the method on the Mobile, bank ATM card is needed for corresponding account

as a hardware security. Now, there's no have to be compelled to undergo all the steps at ATM machine to withdrawal the money like traditional money withdrawal. System can check the table that maintains the money withdrawal dealings created victimization Mobile banking. If a dealings cherish specific account is in table, then system retrieves the dealings and simply a Arcanum provides the money and print dealings receipt, if designated. However just in case, there are no dealings unfinished within the table, then system can continue with existing traditional ATM computer operation.

## **II. RELATED WORK**

Pijush Chattopadhyay, Dr. (Smt.) S Saralelimath[1] ATM is one of the most popular delivery channel as it permits customers to do Anywhere, Anytime banking. Both, the bank and customers stand to gain in several ways. While ATMs bring down the cost per transaction, increase efficiency by reducing workload of staff, they help to increase accuracy, speed, save time, money and efforts of customers. Thus, ATM impacts the customer services and leads to better customer satisfaction. To analyse their relationship between demographic variable and preference to use ATM, a structured questionnaire is used to collect the data from a convenience sample of 300 customers from three sample cooperative banks in Pune city. Frequency and Percentage analysis and chi square tests are applied for data analysis and interpretation. Also, chart sand tables are prepared for better understanding of the findings.

Carr, M.R [2] Smart card technology not only enables secure access to logical and physical applications but also provides inherent value in the areas of security, authentication and multi-application capabilities for a variety of industries in the areas of transportation, banking, telecommunications and public sector. The impact of society on the use of security systems and technology enabled with smart card technology is rapidly accelerating since the events of September 11th. This presentation will provide an overview of smart card technology for understanding where the technology is migrating, and offer four smart card case studies (domestic and international) in the areas of IT Network Security, public-sector healthcare, financial services and cashless gaming. The presentation will also examine and compare similarities provided to end users in each case study pointing out 'value' characteristics that encourage adoption of smart card technology and applications enabled using smart cards. Finally the presentation will discuss how to begin evaluating a smart card project and elements for consideration toward successful development, implementation and deployment.

Mary Knich Vice President, ATM Products, First Data [3] Smart Cards are secure portable storage devices used for several applications especially security related ones involving access to system's database either online or offline. For the

future of smart card to be bright, it is important to look into several aspects and factors especially those resulted due to the rapid advancement in information and communication technology. This paper looks into current trends in smart card technology and highlights what is likely to happen in the future. Moreover, the paper addresses other aspects in order to identify the core concepts that are of interest to smart card developers and researchers. More emphasis is given to four key characteristics of smart cards: portability, security, open platform, and memory management, as they are believed to be at the heart of many smart card applications.

Archana Sharma, Dr. Vineet kansal [4] If technological revolution is at its peak, one of the notable sectors of the economy where technology is at its helm of affairs with respect to customer service is BANKING. Over the years, banking has transcended from a traditional brick-and mortar model of customers queuing for services in the banks to modern day banking where banks can be reached at any point for their services. In today's business, technology has been on the predominant indicators of growth and competitiveness. The banking industry today is in the industry of its revolution. Information technology has basically been used under two different avenues in banking. One is communication and connectivity and other is business process. Today, banks have welcomed wireless and mobile technology into their boardroom to offer their customers the freedom to pay bills,

planning payments while stuck in traffic jams, to receive updates on the various marketing efforts while present at a party to provide more personal and intimate relationships. This paper examines consumer adoption of a new electronic payment service as mobile banking and the factors influencing the adoption of mobile banking in India.

**III. PROPOSED SYSTEM**

Enhanced feature to enhance the service of ATM money withdrawal in less time with a lot of level of security. Increase the speed of money withdrawal nearly three times quick. The analysis will be employed by banks to enhance the services of ATM and may enhance the satisfaction of their customers & save value for brand new ATMs. Security is that the main concern, once there's coping with banks. Individual mobile has to be register with checking account to use the banking service that increases the safety. There are unit more stronger authentication in good phones like camera for face recognition, mica for voice recognition, fingerprint reader and Geolocation to use of this security can be used while not troubling user expertise. thus with the assistance of these feature Mobile banking will offer higher security similarly as higher user convenience than ancient on-line banking. This coming feature can upgrade the safety to following level with same user expertise. Below are unit securities with this new feature.

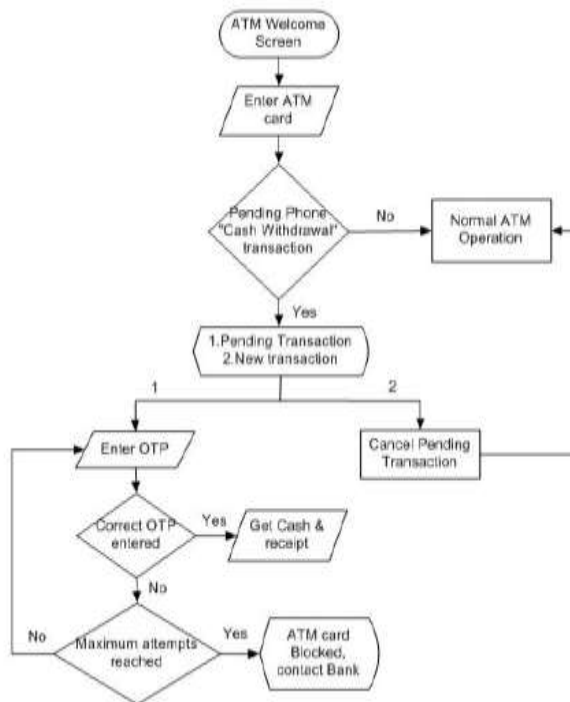


Fig 1: Architecture Diagram

**V. CONCLUSION**

The main purpose of this analysis is to save lots of client time to withdrawal money from ATM machine, by utilizing waiting time within the ATM queue. usually a booming money withdrawal group action takes a minimum of thirty seconds, a lot of just in case of wrong attempts; however victimization this feature, booming group action are going to be done solely in ten seconds. Which means group action of

money withdrawal victimization this feature can take but 0.5 times, therefore there's quite five hundredth time saving.

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