

Multibanking Transaction System by One Touch

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ABSTRACT- The Multi Banking System Interface is geared toward becoming a part of the future banking solution for customers who have numerous bank accounts held at a variety of financial institutions. This interface incorporates all of the established institutions and offers business solutions applicable to individual as well as corporate customers. This method functions as a standardized communication between the customers and all of the different institutions. Any customer who has accounts in multiple institutions and uses this gateway to access those accounts can immediately connect on to the Multi Banking System Interface and complete any kind of transaction they desire. The system will take care of each and every responsibility that is necessary in order to conduct transactions in a seamless manner behind the scenes. Every person has a number of ledgers that are kept apart from institutions; individuals have to carry a number of different ATM cards in order to make transactions; and each ledger may have a different PIN. In customary framework, ATM terminal client acknowledgment frameworks just depend on bank cards, security pin number, and such personality check strategies which measures are not great and capacities are excessively single and on occasion there are episodes where we overlook our own security PIN number, lose our cards, cards get taken, taken PIN numbers.

KEYWORDS- Multibanking, Multibanking Transaction, OneTouch, Electronic banking,

I. INTRODUCTION

Global groups are changing how they work. With the rise of the internet, mobile devices, and related apps and social networks, companies were able to better connect with their consumers [1]. Most banks now offer services online, where clients can complete transactions with a tap on a mobile app. This move has increased these banks' revenue [2]. Ultramodern banking services have changed the work of banks in a veritably large and accelerated manner, as communication and relations between guests led and fiscal institutions to understand and know the ideas and bourns of guests, which assessed a great competition between fiscal institutions in invention, development, and service provision[3].

Since we did research in Iraq, we must address the poor quality of banking services given to Iraqi customers and the trouble these institutions had in competing and

retaining clients in the face of global technical developments (see section 4). To improve performance, life, stability, and innovation, these entities must be assessed by their clients. The Oleynick study examined how motivation affects institutional service marketing.

Inspired consumers create goods and solutions that help organizations and cultures, according to Oleynick et al. [5]. Böttger et al. [6] found that incentive shapes service marketing, a type of personalized marketing. In the Middle East, bias and gender inequity in social and economic contexts affect clients and service delivery [7, 8]. A small gender variance may help explain how the model relates to male and female consumers' financial service usage.

To better grasp the subjective reflection of the nature of gender in encounters with services, various studies and empirical evidence on marketing, customer relations, and management have presented the notion of gender in a variety of methods over the past few decades [9].

Despite substantial empirical support, the majority of earlier research on consumers' propensity to use financial services overlooked demographic moderators such age, education, and sexual orientation.

According to Venkatesh et al. [10], gender influences the use of financial services, particularly automated services, because shareholder relations rely on customer satisfaction.

Multiple names are common. Business owners especially. Multibanking aims to organize money. Multibanking helps consumers and company owners make smarter financial decisions.

Depending on the service provider, multiple profiles may be merged. When amounts are immediately adjusted, having all of one's bank accounts, including those in various nations, in sync is handy. This ensures all-level contact.

Service providers safeguard multibanking. Thus, consumers and businesses must evaluate service providers' safety features.

Some platforms allow money transactions. This could compromise your user details. Users should evaluate their data security rules before making a choice.

Computer placement is crucial. Tresio only stores and processes data on Swiss servers, including bank account information. This ensures good secrecy and security.

II. ELECTRONIC BANKING

When you use online banking, a bank deposit or other internet service or transaction is processed in the same way as if you were physically present in a bank location. Banks have established a complete finance system and a client database, allowing them to successfully and efficiently use the Internet to carry out the process of offering services to consumers. Since this change, the method of delivering services to clients has become more efficient and fruitful.

Electronic banking services offer a number of significant benefits, including cheaper prices and convenience of use on mobile and other electronic devices. It is also able to quickly engage with consumers, inspire them, and learn what ideas they have for developing new services that meet their needs.

The financial sector is taking advantage of the opportunity to grow beyond all doubts, and the wave of transformation in information and communication technology has led to accurate provision of banking services to customers in terms of ease and cost of transactions through banking services online. Internet banking is a key component of this new development in information and communication technology.

Scholars in the area of management have called for an examination of the variables that promote and deter funding of online banking service evaluation. To achieve this goal, it is necessary to first acquire an elementary knowledge of the parts that collectively form internet banking[11].

The banking industry in Iraq was created and managed as a crucial component of the developed economy because it offers customers electronic banking services and makes use of quick communications, secure information networks, and comprehensiveness. However, it still has a number of issues, such as the requirement to review and communicate with customers to learn about their needs and aspirations and to encourage their ideas so that these banks can provide better services for ongoing clients. Financial organizations recognize the value of financial apps in differentiating themselves from the competition and in building strong relationships and channels of contact with their customers [10]. Low adoption rates of banks' mobile banking services led to the implementation of managerial and technical changes aimed at enticing clients to make the switch. All of these alterations were made with the hope of increasing the frequency with which customers make use of the service.

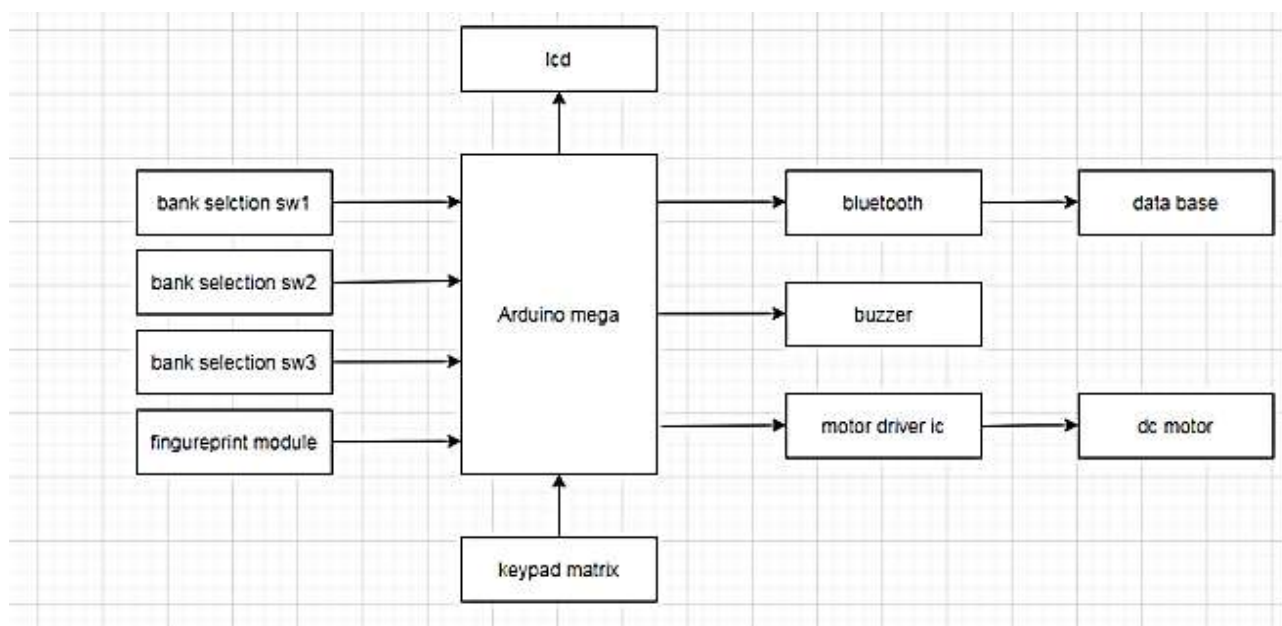


Figure 1: Block diagram of connections with Arduino

The fast acceptance of this significant technology in the financial sector can be attributed to a number of reasons, including efforts to improve transaction handling, the evolution of mobile devices, and the changes in the international economic landscape (figure 1). Once these services were established, clients could use their mobile devices to gain access to their funds from anywhere. Numerous users have grown to cherish their mobile devices, which has inspired new developments in mobile banking. There is a positive correlation between the number of clients a bank has and the number of services it offers through mobile banking. Having a direct line of communication with clients speeds up the resolution of issues and decreases the number of complaints received. The success of a mobile banking platform hinges on four

main features: user friendliness, customization, information quality, and incentives.

The majority of known and studied individual difference factors center on sex. Recent studies have found that there are gender variations in decision making when it comes to the adoption of new technologies. In addition, research by Chen and Macredie on web-based services showed that users' habits and preferences for particular apps, as well as their perspectives and expectations of web-based engagement, varied greatly. It has been suggested that people's reasons for utilizing technology vary according to gender. Men and women differ in their need structures and need ratios, and trying to meet these needs can result in positive psychological reactions like a sense of contentment. As a consequence, gender plays a significant role in the relationship between various needs

and will, therefore, reflect how users perceive benefits. Some research on gender and technology use have found that males are more likely to see the advantages of using technology than women are.

When comparing the sexes, researchers consistently find that males are the more practical of the two. Women are task-oriented and highly driven by productivity or task-related variables (such as usefulness); thus, it is important to confirm which of the more conventional workplace tactics are meant to be "practical" and task-oriented. If they make their users more efficient, then they are valuable. Some proof that males are less influenced by convenience and inclination to use and engage with the Internet. This necessitated more research into the differences between male and female Internet users[12].

The "One touch Multi-banking Transaction framework utilizing Biometric and Bluetooth Authentication" is a new client recognition framework for ATM terminals that aims to fix the problems with the current system. One of the safest systems is a biometric one, where each individual has a distinct recognized evidence that is validated by their fingerprint. This structure also ensures a protected Bluetooth data transfer. In this case, the suggested framework accomplishes high security in comparison to the standard ATM system while having no risk burden in handling numerous record transfers.

We believe our proposed change will improve upon the existing ATM system by making card use simpler and safer. We have adopted a security system that requires fingerprint recognition in addition to a permanent PIN (Personal Identification Number). A press of the trigger will begin the process. The proposed system involves a number of entities, which calls for the integration of multiple hubs. The Switches allow the user to choose which bank to use by simply clicking on one.

In response to the user's trigger push, the system will instantly select the desired bank. Individuals are free to handle their own financial matters once they've decided on a bank. Account access is restricted until users identify themselves using biometric readers. If the biometric data on file is a match for the fingerprint being matched, the authentication procedure will move forward. If the DNA does not match the information in the system, the transaction will be reversed. The permanent PIN is the second layer of security. After successfully authenticating your thumbprint, the purchase will proceed. Withdrawal amounts are to be entered by the individual. If the entered currency values are not valid, the process ends. So long as they are available, it will proceed. Everything is then sent to the server for additional processing. Therefore, this deal has come to an end.

III. CONCLUSION

Corporate giants of the future will operate as multibanks. It's a fantastic tool for seeing the big picture of the money coming in and going out. Users must be enrolled in multiple schools to qualify. In contrast, a multi-currency account is the most efficient and convenient method for conducting international deals. This research highlights the role of inspiration as a key driver of innovation and a novel component of marketing services by improving consumer behavior and trust. This article demonstrates why it's crucial to encourage customers to talk to one

another in order to learn about and generate ideas for improving financial services. The study's focus was on a strategy model in the field of creativity and financial services, which takes into account a wide range of factors that have not previously been investigated. The research found that financial services, especially those that take into account clients' gender, can have a significant impact on their motivation to use those services. Actually, the research shows that invention and the growth of financial services are heavily influenced by the knowledge of consumers' concepts and patterns.

CONFLICTS OF INTEREST

The authors declare that they have no conflicts of interest.

REFERENCES

- [1] E. Basci, "Which types of Internet banking service effects bank's income statement? an empirical study for Turkey between 2006 – 2013," *The Macrotheme Review a Multidisciplinary Journal of Global Macro Trends*, vol. 7, 2014.
- [2] B. B.-H. Chai, P. S. Tan, and T. S. Goh, "Banking services that influence the bank performance," *Procedia - Social and Behavioral Sciences*, vol. 224, pp. 401–407, 2016.
- [3] S. Bettany, S. Dobscha, L. O'Malley, and A. Prothero, "Moving beyond binary opposition: exploring the tapestry of gender in consumer research and marketing," *Marketing Theory*, vol. 10, no. 1, pp. 3–28, 2010.
- [4] E. Van Tonder and D. J. Petzer, "The interrelationships between relationship marketing constructs and customer engagement dimensions," *Service Industries Journal*, vol. 38, no. 13-14, pp. 948–973, 2018.
- [5] F. I. Anyasi and P. A. Otubu, "Mobile phone technology in banking system: its economic effect," *Research Journal of Information Technology*, vol. 1, no. 1, pp. 1–5, 2009.
- [6] R. Gomachab and B. F. Maseke, "The impact of mobile banking on customer satisfaction: commercial banks of Namibia (Keetmanshoop)," *Journal of Internet Banking and Commerce*, vol. 23, no. 2, pp. 1–18, 2018.
- [7] S. Y. Chen and R. Macredie, "Web-based interaction: a review of three important human factors," *International Journal of Information Management*, vol. 30, no. 5, pp. 379–387, 2010.
- [8] C. Fornell and D. F. Larcker, "Structural equation models with unobservable variables and measurement error: algebra and statistics," *Journal of Marketing Research*, vol. 18, 1981.
- [9] Prasadu Peddi (2018), "A Study For Big Data Using Disseminated Fuzzy Decision Trees", ISSN: 2366- 1313, Vol 3, issue 2, pp:46-57.
- [10] D. Compeau, C. A. Higgins, and S. Huff, "Social cognitive theory and individual reactions to computing technology: a longitudinal study," *MIS Quarterly*, vol. 23, no. 2, pp. 145–158, 1999.
- [11] Sh. Sachin Gupta (2021), A Review on Prospect & Problem of Electronic Commerce's Service in India, *International Journal of Innovative Research in Engineering & Management (IJIREM)*, Vol-8, Issue-6, Page No-435-437], (ISSN 2347 - 5552).
- [12] Shivanshi Sinha, Dr. Yojna Arora (2020), Ethical Hacking: The Story of a White Hat Hacker, *International Journal of Innovative Research in Computer Science & Technology (IJRCST)*, Vol-8, Issue-3, Page No-131-136], (ISSN 2347 - 5552).