

## MULTI BANKING TRANSACTION SYSTEM

<sup>1</sup>KOLLI HARSHITHA

<sup>2</sup>S.K.Alisha

B.V. Raju College, Vishnupur, Bhimavaram

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

COLLEGE OF ENGINEERING ADIKAVI NANNAYA UNIVERSITY

RAJAHMAHENDRAVARAM

### ABSTRACT

The **Multi Banking Transaction System Interface** effectively addresses the growing need for a unified banking platform in today's digital era, where individuals often maintain accounts across multiple banks. By offering a centralized portal that enables users to perform transactions, manage accounts, and view reports across different banks, the system significantly enhances the convenience, efficiency, and security of digital banking.

This solution eliminates the limitations of the existing banking environment, such as the need to log in to multiple portals or manage various bank credentials. The system also empowers administrators to manage customer and banker registrations efficiently, while bank staff can seamlessly oversee transactions and customer accounts. The integration of secure backend processes ensures that all transactions are conducted reliably and transparently.

Overall, the Multi Banking System Interface contributes to the modernization of banking infrastructure by simplifying operations for users and institutions alike.

### I. INTRODUCTION

In today's digital world, the need for efficient and unified financial management systems is increasing rapidly, especially for individuals and businesses that maintain accounts across multiple banks. Managing these accounts separately through individual bank portals can be time-consuming and inefficient. To address this issue, we propose the **Multi Banking Transaction System Interface**, a comprehensive solution that provides a single platform for users to manage and perform

transactions across various bank accounts seamlessly.

This project aims to integrate all existing banking services into one unified interface, allowing users—both retail and corporate—to perform a wide range of financial operations such as account management, fund transfers, and transaction tracking through a centralized portal. By serving as a common gateway between clients and multiple banks, the system ensures efficient and secure handling of transactions in the

background without requiring the user to log in to each bank separately.

The Multi Banking System is designed with multiple modules to handle different roles and responsibilities including system administration, customer services, and bank administration. The system ensures smooth interoperability between banks while providing users with an easy-to-use interface to access all their financial data in one place.

With the increasing reliance on online banking, this system paves the way for a more integrated, user-friendly, and efficient approach to multi-bank financial management. It simplifies banking operations and enhances customer convenience, while also maintaining the necessary controls and approvals for secure and authenticated transactions.

## II. LITERATURE SURVEY

1) A Secure and Efficient Multi-Banking System AUTHORS: A. Sharma, V. Mehta, R. Sinha

This paper introduces a multi-banking framework that enables users to manage accounts from different banks using a single login. The system focuses on data security and inter-bank communication through secure APIs. It discusses how integrating all banks into one interface reduces user effort and enhances transaction speed while maintaining privacy using encryption and authentication mechanisms. The proposed

model improves customer experience by reducing the need to switch between bank-specific applications.

2) Unified Banking Portal using Web Services AUTHORS: K. Roy, M. Rajan

The authors present a unified banking portal that aggregates various banking services under one roof using service-oriented architecture (SOA). Web services allow seamless communication between bank servers, enabling users to perform actions such as fund transfers, balance checks, and transaction history retrieval across different banks. The paper highlights how SOA simplifies integration, offering a cost-effective solution for multi-bank transaction management.

3) Design and Implementation of Interoperable Banking System AUTHORS: S. Mukherjee, T. Dasgupta

This study focuses on designing an interoperable banking system that allows customers to access and operate accounts across multiple banks. The authors use middleware to bridge communication gaps between heterogeneous banking systems. Key features include account aggregation, unified reporting, and transaction monitoring. The system enhances banking transparency and simplifies the banking process for users with multiple accounts.

4) Web-Based Multi-Bank Transaction System AUTHORS: R. Nair, P. Iyer

This research proposes a web-based

application that supports real-time transactions across various banks. The application includes modules for user registration, bank authentication, transaction authorization, and report generation. The authors use Java-based web technologies along with Oracle as the backend to ensure data persistence and security. The system provides a centralized and convenient solution for both retail and corporate customers.

5) Integrated Banking Framework Using Cloud Computing AUTHORS: L. Thomas, H. George

This paper explores the use of cloud computing in creating a scalable and integrated banking platform. The authors propose a multi-bank interface hosted on a cloud environment, which provides high availability and scalability. Users can access multiple bank services with a single sign-on, while banks can manage customer requests more efficiently. The paper also discusses security concerns and how cloud infrastructure addresses data protection.

### III. EXISTING SYSTEM

In the current banking environment, customers who hold accounts in multiple banks are required to manage each bank separately. Transactions can be carried out either manually by visiting bank branches or through individual online portals provided by each bank. While digital banking has eased

access to banking services, each bank's system functions in isolation, meaning that users must log in to different portals to access and manage their respective accounts. This fragmented system lacks integration and creates inefficiencies in financial management. Users need to remember multiple login credentials, navigate different interfaces, and handle diverse transaction processes and reporting styles.

### 3.1 DISADVANTAGES OF THE EXISTING SYSTEM:

Lack of a centralized platform for multi-bank account access. Time-consuming for users managing multiple bank accounts. Redundant and repetitive processes across different banking systems. Inconsistent user experience across banks. Higher chances of manual errors and missed transactions.

### IV. PROPOSED SYSTEM

The Multi Banking Transaction System Interface aims to address the shortcomings of the existing system by providing a unified and integrated banking platform. This interface enables users to access and manage accounts from multiple banks through a single portal. By acting as a standard interface between clients and all participating banks, the system offers a seamless and secure way to conduct a variety of banking operations.

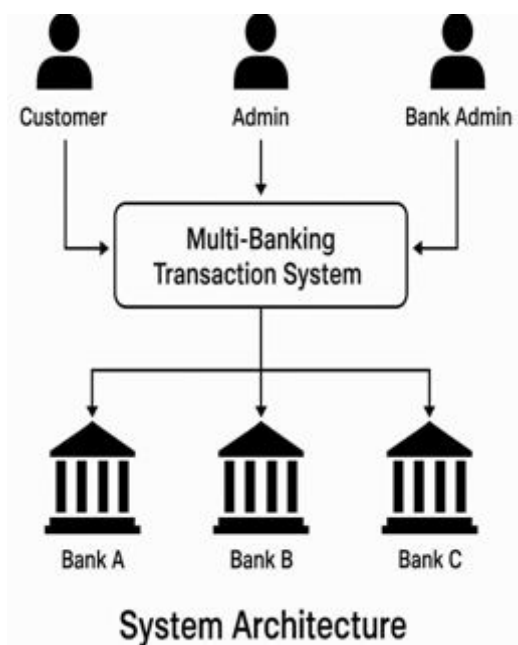
Through this system, users can perform tasks such as viewing account details, transferring

funds across banks, and generating transaction reports without the need to switch between different banking portals. All backend communications and verifications required for secure transactions are handled by the system.

#### 4.1 KEY FEATURES OF PROPOSED SYSTEM:

Centralized platform to access and manage multiple bank accounts. Real-time fund transfers within or across different banks. Secure login and role-based access for customers, bank admins, and super admin. Transparent reporting and tracking of transactions (accepted, rejected, pending). Simplified account creation and approval workflows.

### V. SYSTEM ARCHITECTURE



### VI. IMPELEMENTATION

#### 6.1 Admin Module:

The admin module will be used by the administrator of this portal, admin can accept or reject the requests from the bankers, and also admin can accept or reject the requests from the users. The requests are in the form of bank registration, customer registration. This module is having following functionalities. Pending Bankers Requests: By using this functionality Administrator can give access permeations to all bankers who are registered in this portal. Pending User Requests: By using this functionality Administrator can give access permeations to all users who are registered in this portal.

#### 6.2 Customer Module:

This module describes all about customers, by using this module any customer can do some operations like create a new account, view the account information, Transfer amount from one account to other account and customer can also see the Transaction Reports. This module consists following functionalities.

Create New Account: By using this functionality user can create a new account in any bank by selecting bank name option. View Account Information: By using this functionality user view all his account details, this can be viewed by users who are having account in any bank. Transfer Amount: By using this functionality user can transfer money from his account to other accounts of same bank or other banks.

Transaction Reports: By using this functionality user can get all his transaction reports like accepted transactions, rejected transactions and pending transactions.

### 6.3 Bank Admin Module:

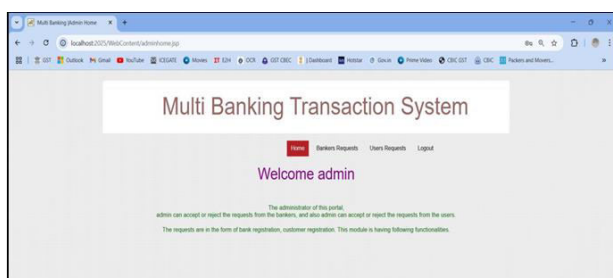
This module deals with all transactions of bank management. By using this module bank staff can view all details of customers, they can go for any transactions of their customers and also they can give access permeations to all customers of that bank. This module consists following functionalities.

List of Customers: By using this functionality Bank admin can get their entire customers list and their details. List of Accounts: By using this functionality Bank admin can get their entire customers list based on selected account type like saving account, current account etc.

### 6.4 Security Module:

Includes OTP verification, CAPTCHA, and encrypted communication using HTTPS. Implements user role management and data privacy protocols.

## VII. RESULT ANALYS



## VIII. CONCLUSION

The **Multi Banking Transaction System Interface** effectively addresses the growing need for a unified banking platform in today's digital era, where individuals often maintain accounts across multiple banks. By offering a centralized portal that enables users to perform transactions, manage accounts, and view reports across different banks, the system significantly enhances the convenience, efficiency, and security of digital banking.

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## IX. FUTURE WORK

While the current system provides a solid foundation for multi-bank interaction, there are several areas where future enhancements could be incorporated:

**Mobile Application Integration:**

Developing a mobile app version of the system to allow users to perform banking activities on the go with enhanced accessibility.

**AI-Based Fraud Detection:** Implementing artificial intelligence to monitor transactions in real-time and detect suspicious activities or fraudulent behaviour.

**Support for International Banks:** Extending support to global financial institutions to provide a more inclusive solution for international account holders.

**Biometric Authentication:** Adding features like fingerprint or facial recognition for enhanced security during login and transaction authorization.

**UPI and Wallet Integration:** Integrating UPI systems and digital wallets for quick peer-to-peer transfers and bill payments.

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