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# Bank Management System

Submitted by:

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*in partial fulfilment for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

in

**COMPUTER SCIENCE AND ENGINEERING**



**VIT<sup>®</sup>**

**Vellore Institute of Technology**

(Deemed to be University under section 3 of UGC Act, 1956)

**School of Computer Science and Engineering**  
**Vellore Institute of Technology, Vellore**

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# **Abstract**

In the 21st century, people still struggle to make use of the manual banking system. Every citizen is required to physically go to a bank and provide legions of paperwork to open a new bank account or to update their existing account in any sort of manner. This socio-economic issue has inspired us to come up with a fully flexible bank management system that provides remote banking services. This web-based solution offers online banking services which can be accessed by new and existing users of the bank.

The user gets a very interactive and responsive page to perform all the operations by sitting in their places instead of standing in a queue. First, the user has to sign up for the first time to their account and link their bank account with the application. Later on, he/ she can just login into the page. After logging in, the user can perform all the operations for which he had to visit the bank. He/ She can apply for a loan, get their bank balances, give feedback for the application usage experience or can transfer money to some other account, or receive money from another account.

## **Introduction**

### **1. Problem Statement**

At present most of the banking applications are yet to overcome the rapidly growing attacks on their customer private data. Issues such as fraud operating within a conventional environment. However current systems are still trying to cope with the existing institutional structure, which is really meant for usual banking system only and not managing their customer's information more effectively. Lack of adequate security measure is making it really challenging to successfully transform the bank customers' management systems from where it is now to where it should be. This challenge still lingers.

## **2. Technical Specifications**

- HTML
- CSS
- JavaScript
- Bootstrap
- SCSS
- PHP
- MySQL

## **Existing System Problems**

Although the basic type of services offered by a bank depends upon the type of bank and the country, services provided usually include: Taking deposits from their customers and issuing current or checking accounts and savings accounts to individuals and business. Extending loans to individuals and business, Cashing cheque. Facilitating money transactions such as wire transfer and cashiers' cheque, Consumer & commercial financial advisory services, financial transaction can be performed through many different channels. In addition to this, the user interfaces of the currently available solutions are extraordinarily complicated and challenging to use for no discernible reason.

## **Proposed System Design**

### **1. Module Description**

#### **For admin Module**

1. This system allows the admin to login with username and password
2. This system allows the admin to add a Bank branch details

3. This system allows the admin to accept or reject a manager/customer
4. This system allows the admin to approve or reject customer transaction request
5. This system allows the admin to View Managers & Customers details

### **For Manager Module**

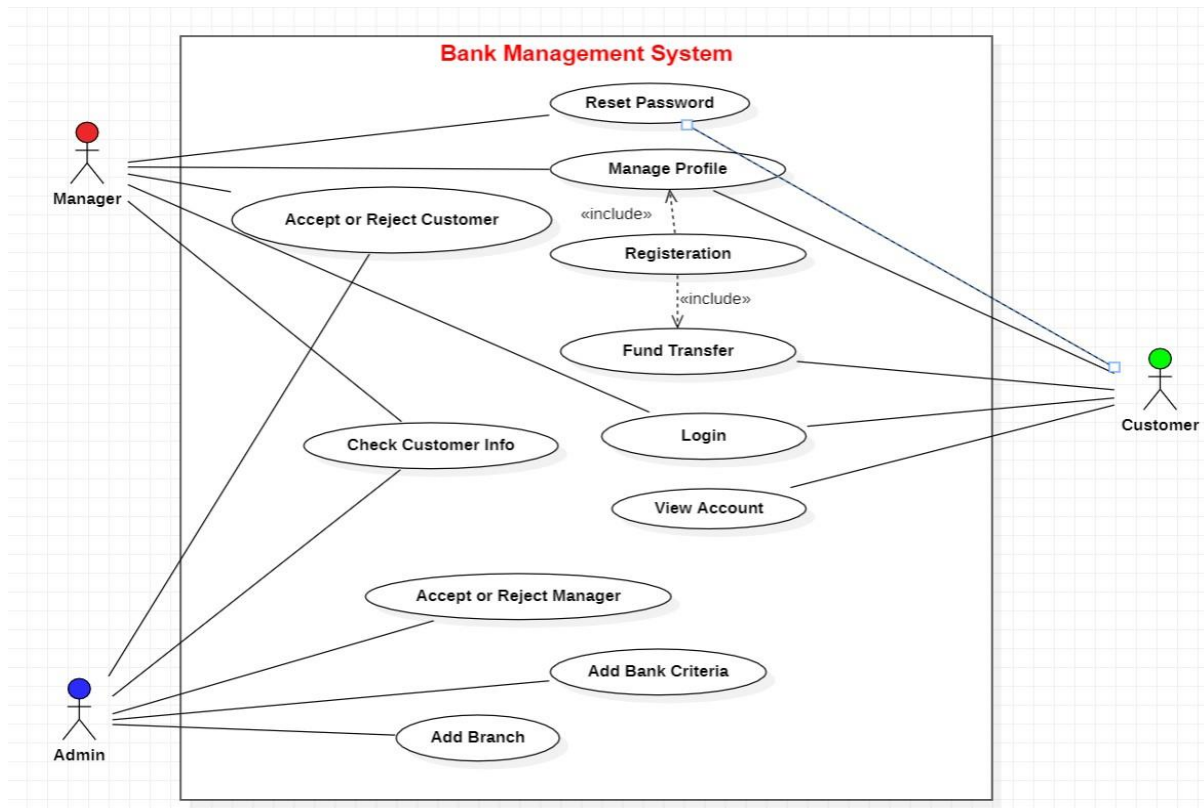
1. This system allows the manager to register
2. This system allows the manager to login with email and password
3. This system allows the manager to accept/reject branch customers
4. This system allows the manager to view customer transactions
5. This system allows the manager to update personal information
6. This system allows the manager to reset password if password is forgotten
7. This system allows the manager to Register New Customer

### **For Customer Module**

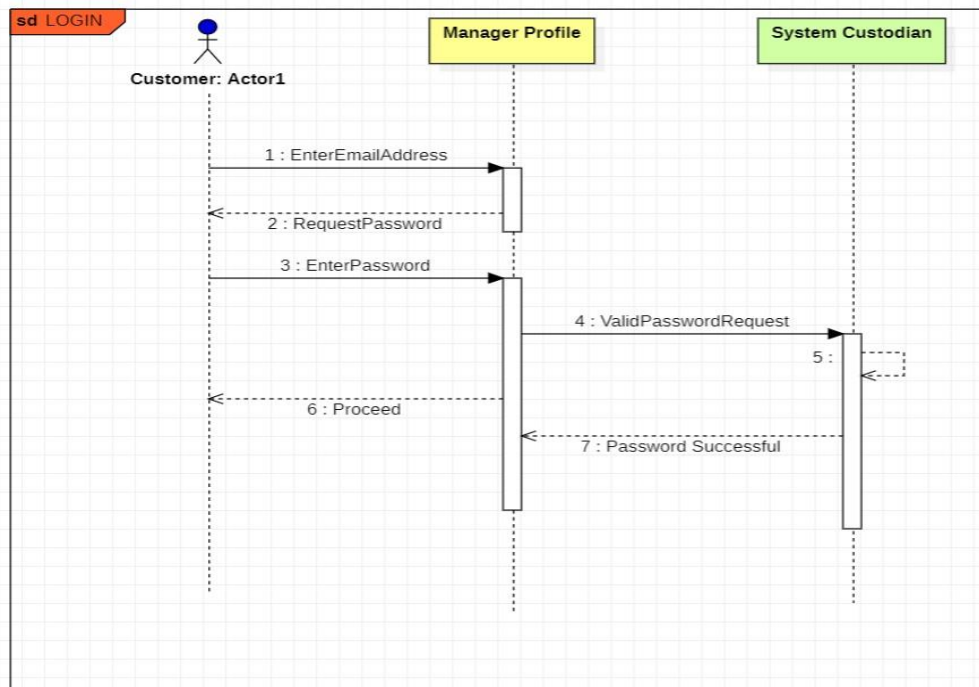
1. This system allows the customer to login with email and password
2. This system allows the customer to update personal details
3. This system allows the customer to reset password if password is forgotten
4. This system allows the customer to view his/her account balance
5. This system allows the customer to transfer money from his account to another account
6. This system allows the customer to recover password
7. This system allows the customer to change password
8. This system allows the customer to delete profile
9. This system allows the customer to choose image point.

## **2. UML Diagrams**

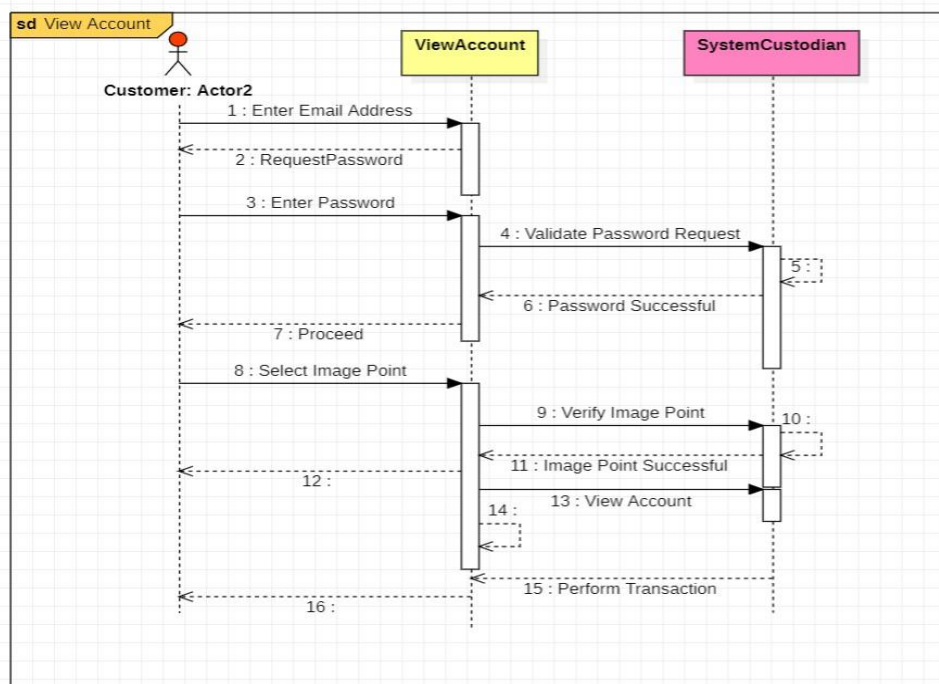
### **• USE CASE DIAGRAM**



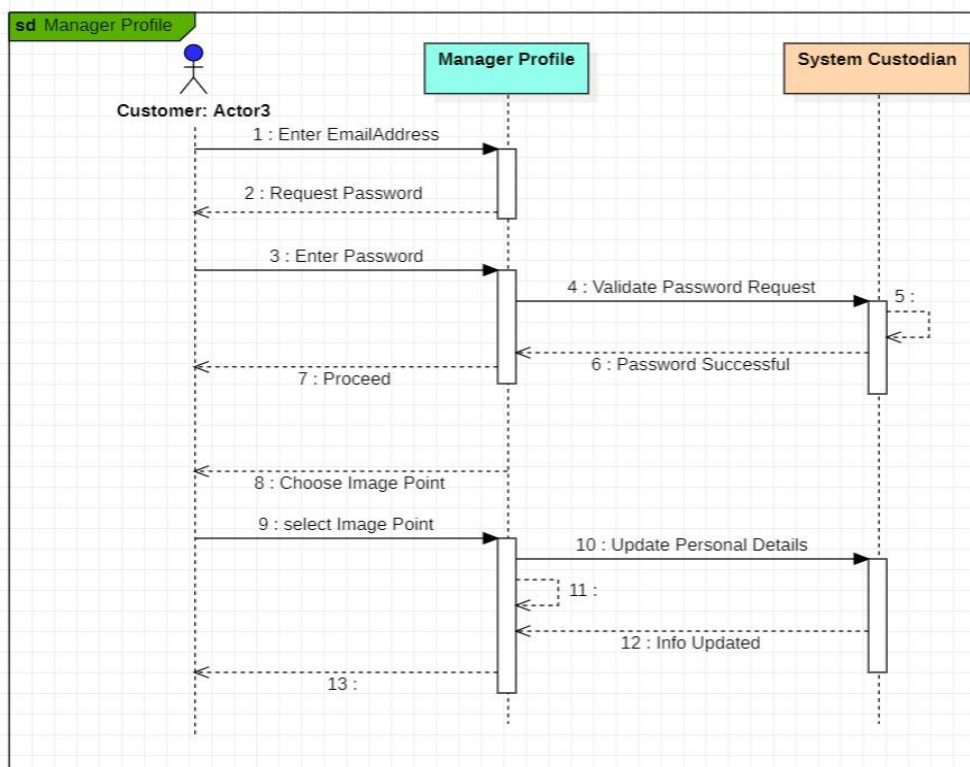
- **SEQUENCE DIAGRAM FOR LOGIN**



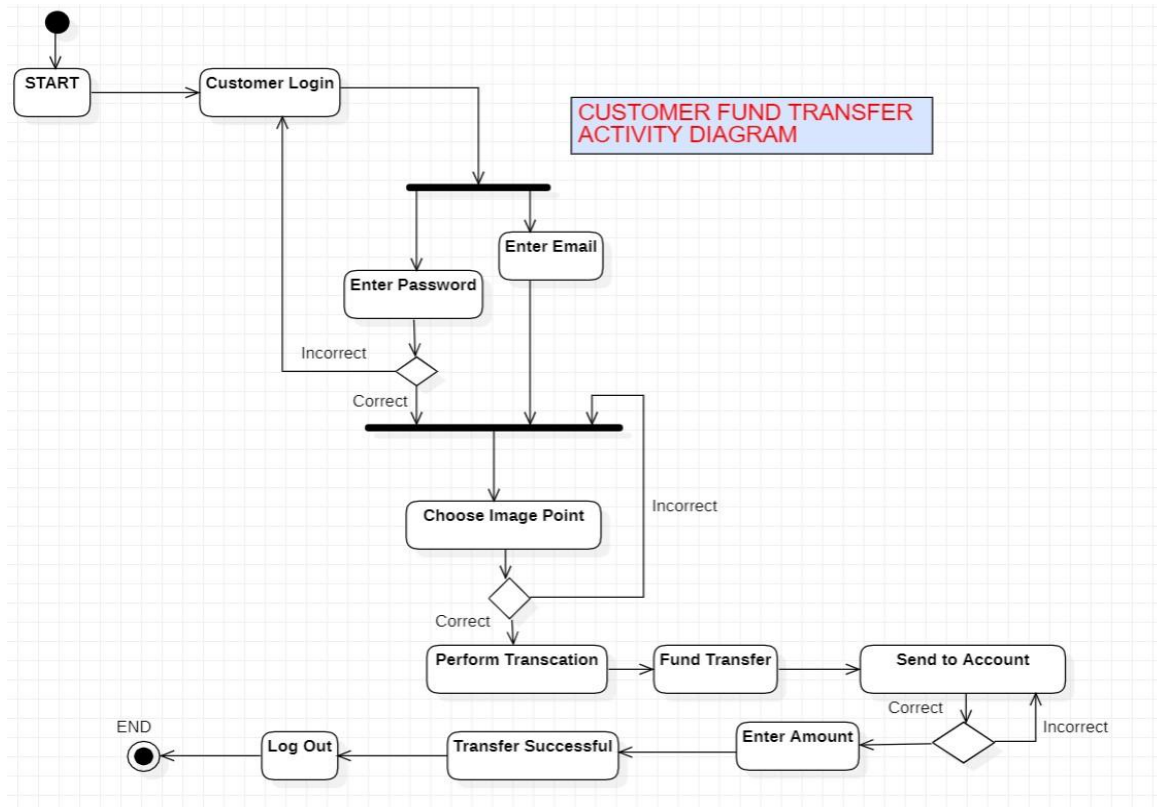
- **SEQUENCE DIAGRAM FOR VIEW ACCOUNT**



- **SEQUENCE DIAGRAM FOR MANAGER PROFILE**

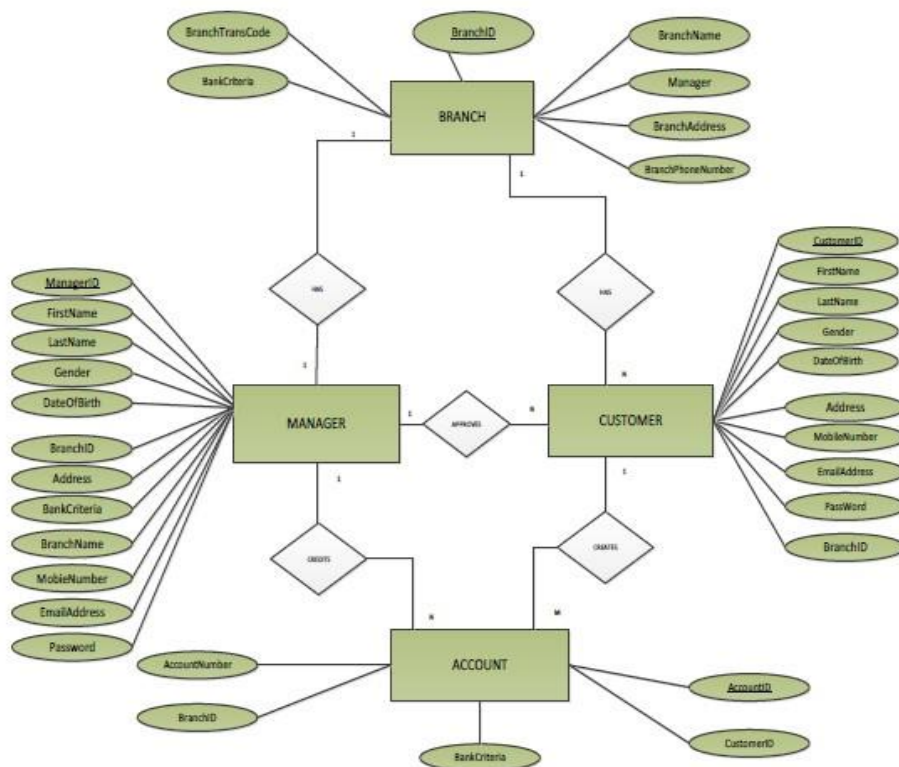


- **CUSTOMER FUND TRANSFER ACTIVITY DIAGRAM:**



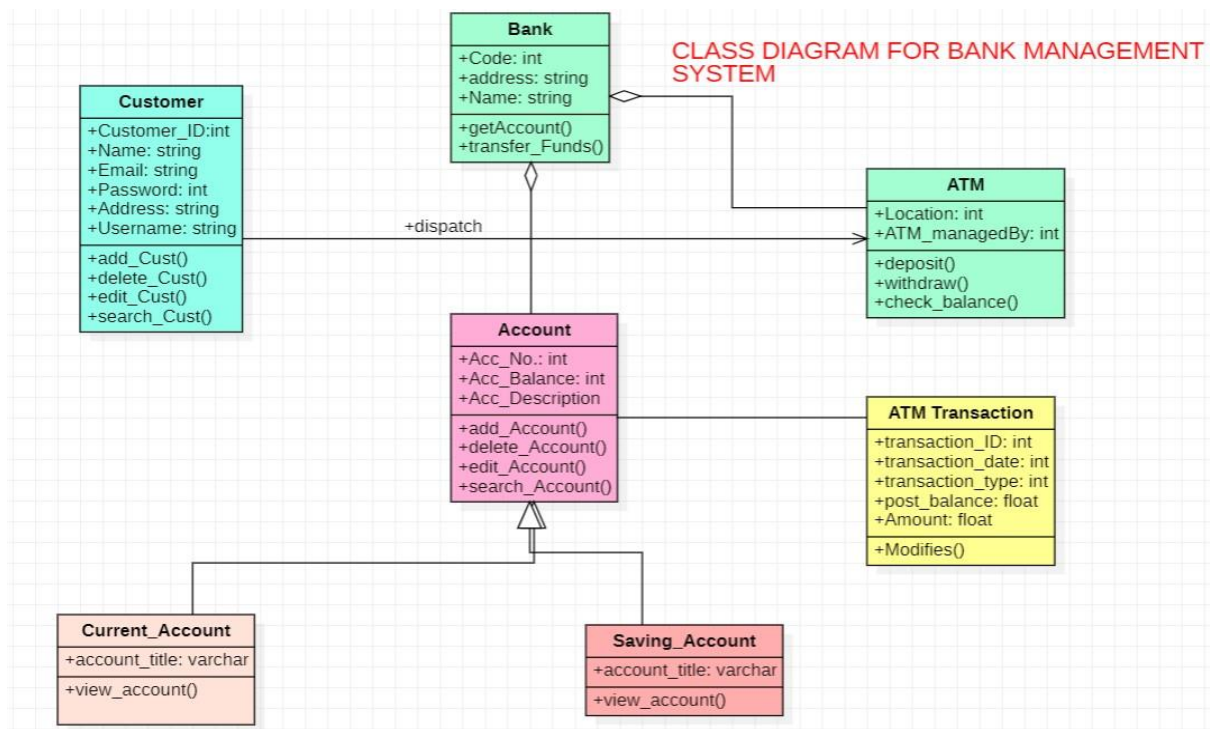
## Results

- ER DIAGRAM:**





- **CLASS DIAGRAM:**



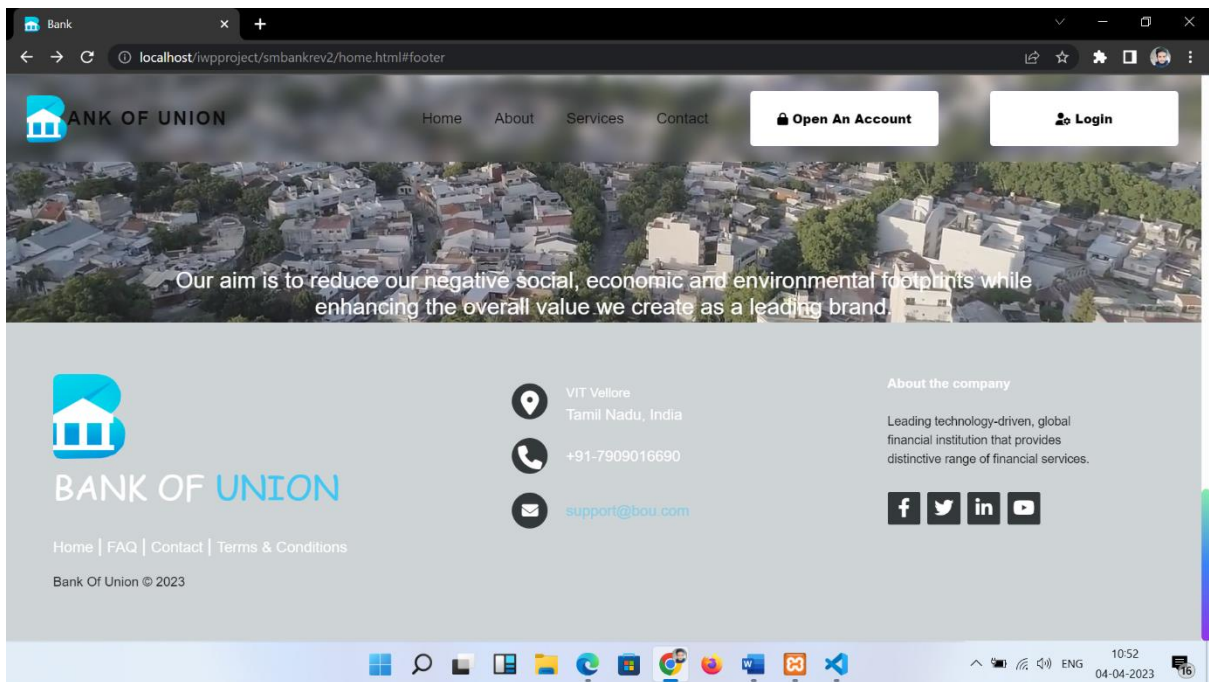
## Screenshots

Home page

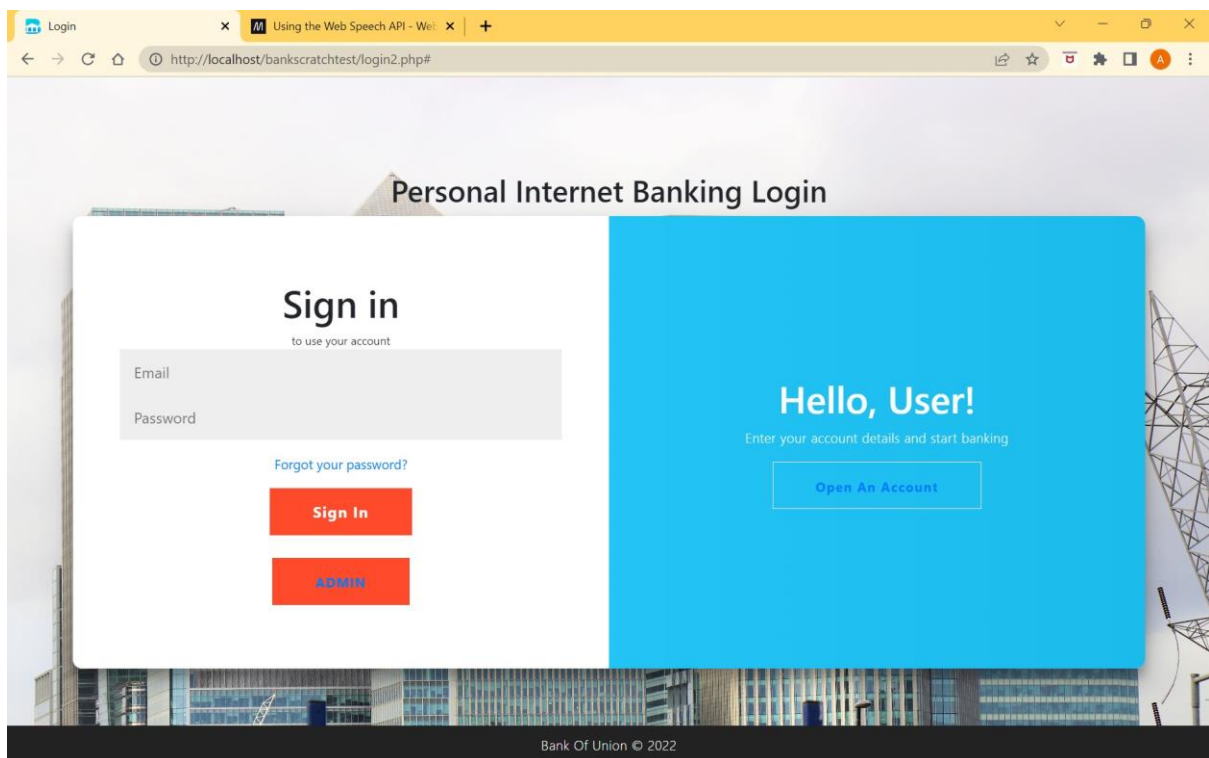


## Savings

The BOU Individual Savings Account is recommended if you have a specific savings goal in mind or you just want to start setting money aside. This account offers interest on your funds regardless of the goal.



## Login page

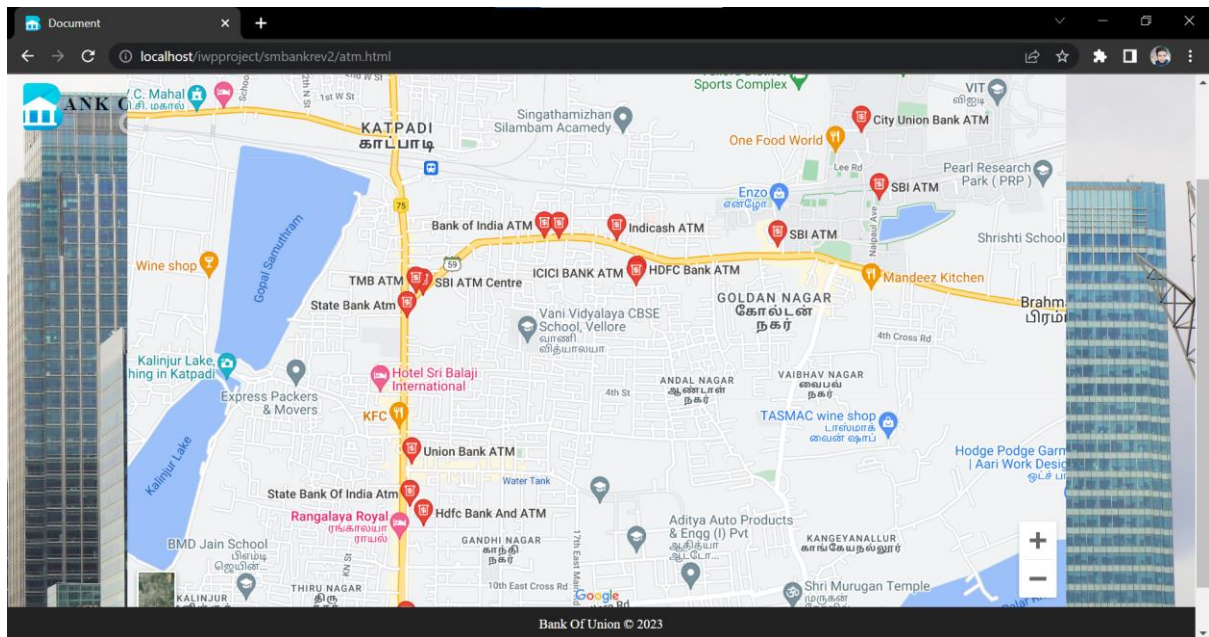


## Open account page

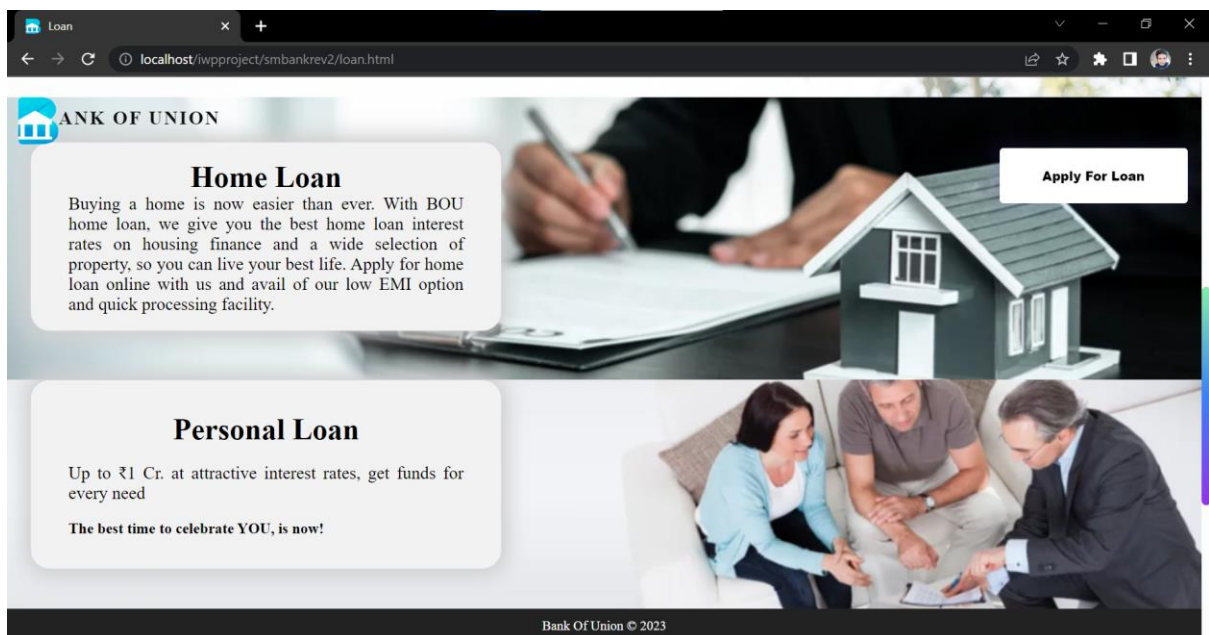




## Nearest atm locator page



## Loan page



## Feedback

Feed

localhost/iwpproject/smbankrev2/feednew.html

### Feedback Form

**Name**  
Your name

**Email**  
Email address

**Phone**  
Phone number

[Feedback / Enquiry / Complaint](#)  
Your message

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## Admin login page

Banking

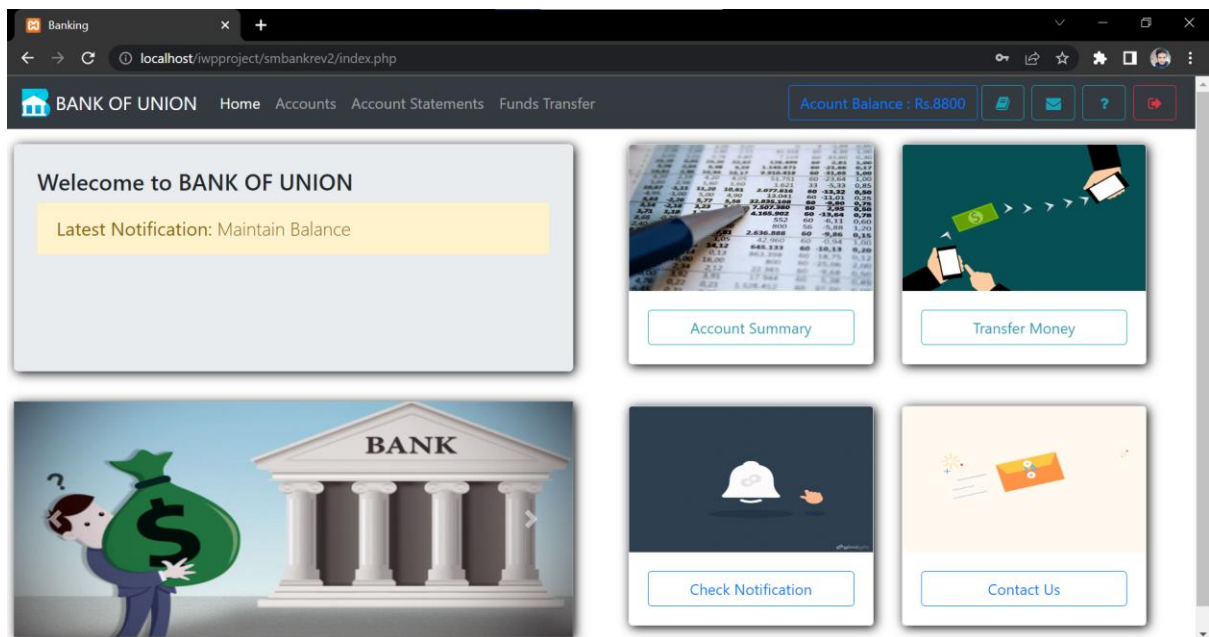
localhost/iwpproject/smbankrev2/login.php

## BANK OF UNION

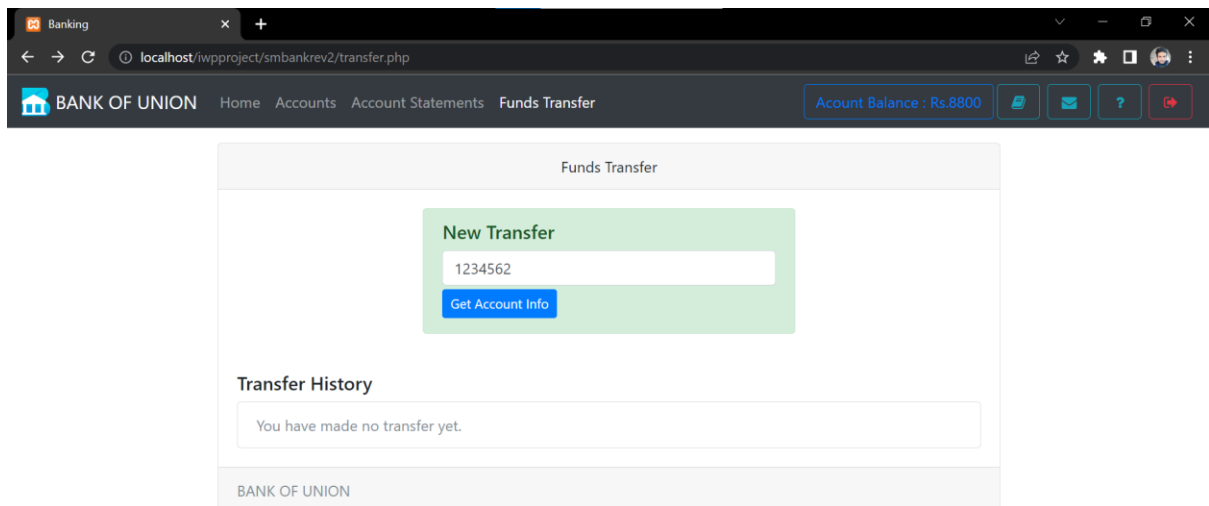
Select Your Session

- User Login
- Manager Login
- Cashier Login

## Main user after login page

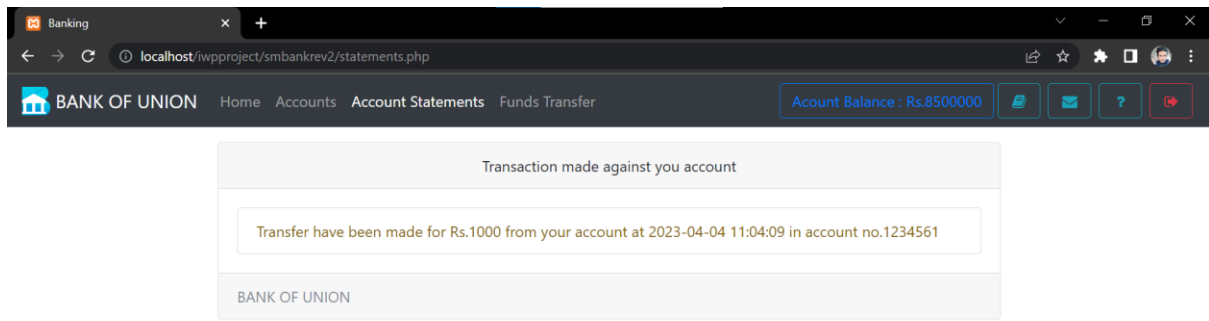


## Funds transfer

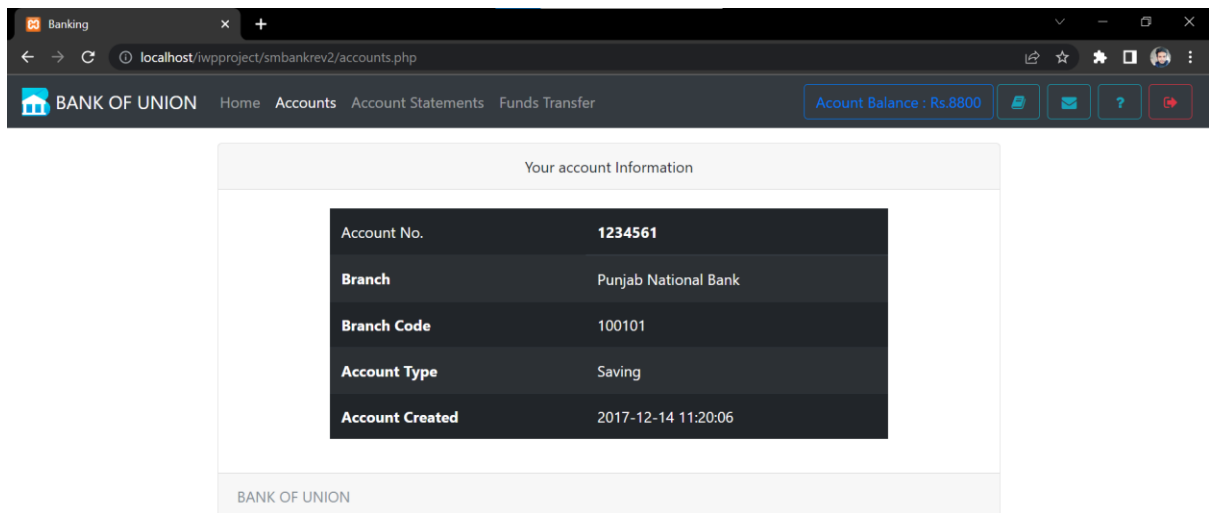


## Account statement

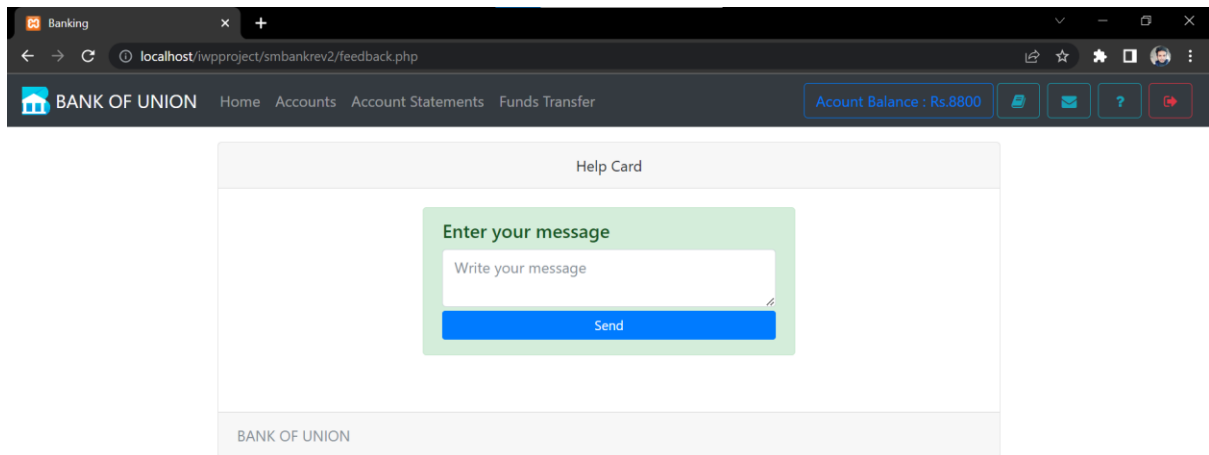




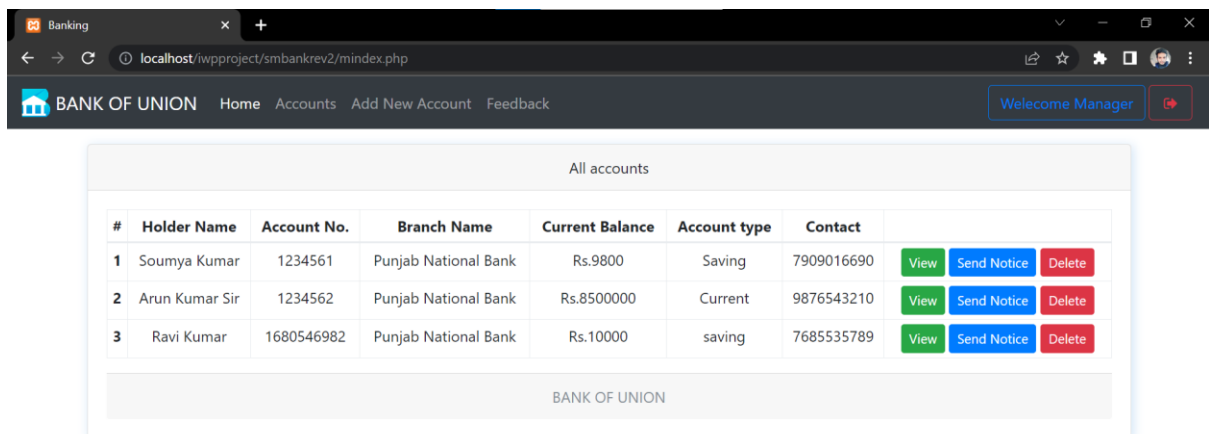
## User account info



## Send message to manager page



## Manager after login page



## Manager add account page

Banking

localhost/iwpproject/smbankrev2/maddnew.php

BANK OF UNION Home Accounts Add New Account Feedback Welcome Manager

### New Account Forum

Name	<input type="text"/>	CNIC	<input type="text"/>
Account Number	1680586582	Account Type	Saving
City	<input type="text"/>	Address	<input type="text"/>
Email	<input type="text"/>	Password	<input type="text"/>
Deposit	<input type="text"/>	Source of income	<input type="text"/>
Contact Number	<input type="text"/>	Branch	Please Select..

Save Account Reset

## Feedback from users page

Banking

localhost / 127.0.0.1 / net\_bankin localhost/iwpproject/smbankrev2/mfeedback.php

BANK OF UNION Home Accounts Add New Account Feedback Welcome Manager

### Feedback from Account Holder

From	Account No.	Contact	Message	
Soumya Kumar	1234561	7909016690	Need Loan	Delete

BANK OF UNION

## Send notice to user page

Send Notice to Soumya Kumar

Write notice for Soumya Kumar

Write your message

Send

BANK OF UNION

## View user details

Account profile for Soumya Kumar #1234561

Name	Soumya Kumar	Account No	1234561
Branch Name	Punjab National Bank	Brach Code	100101
Current Balance	9800	Account Type	Saving
Cnic	321037555426	City	Vellore
Contact Number	7909016690	Address	VIT Vellore

BANK OF UNION

For offline  
Cashier after login page

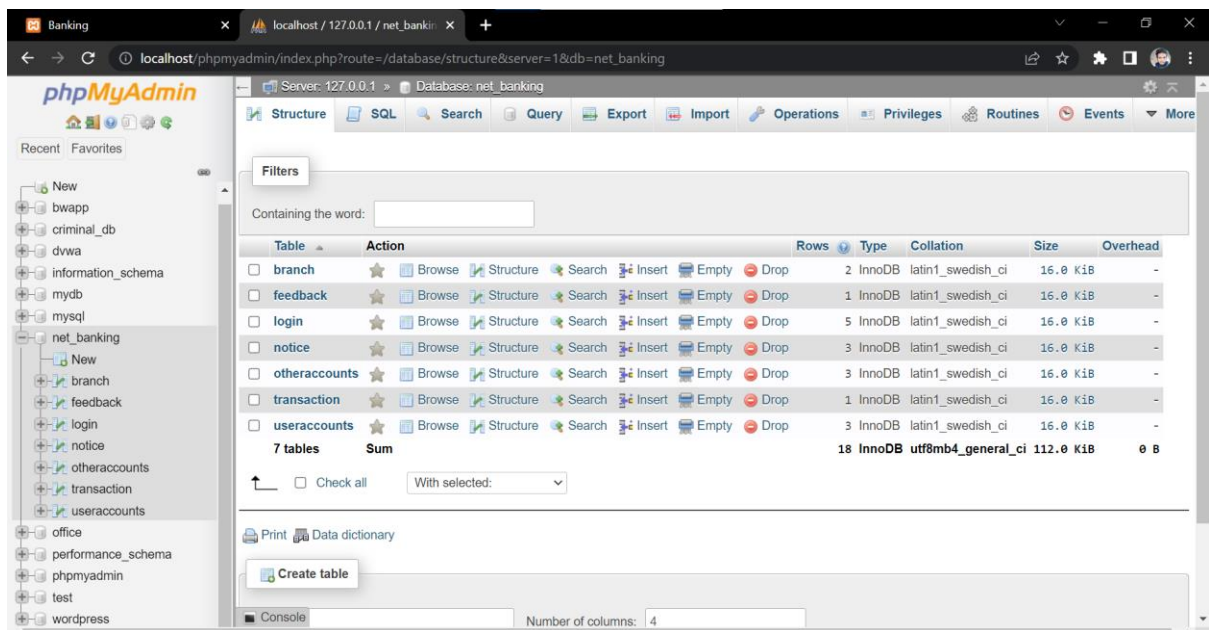
The screenshot shows a web browser window with the URL `localhost/iwpproject/smbankrev2/cindex.php`. The page header includes the "BANK OF UNION" logo and a "Home" link. A "Welcome Cashier" button is visible in the top right corner. The main content area is titled "Account Information" and features a green box with the text "Enter Account Number". Below this, a text input field contains the number "1234562", and a blue button labeled "Get Account Info" is positioned below the input field. The footer of the page displays "BANK OF UNION".

Cashier transaction page after entering account number

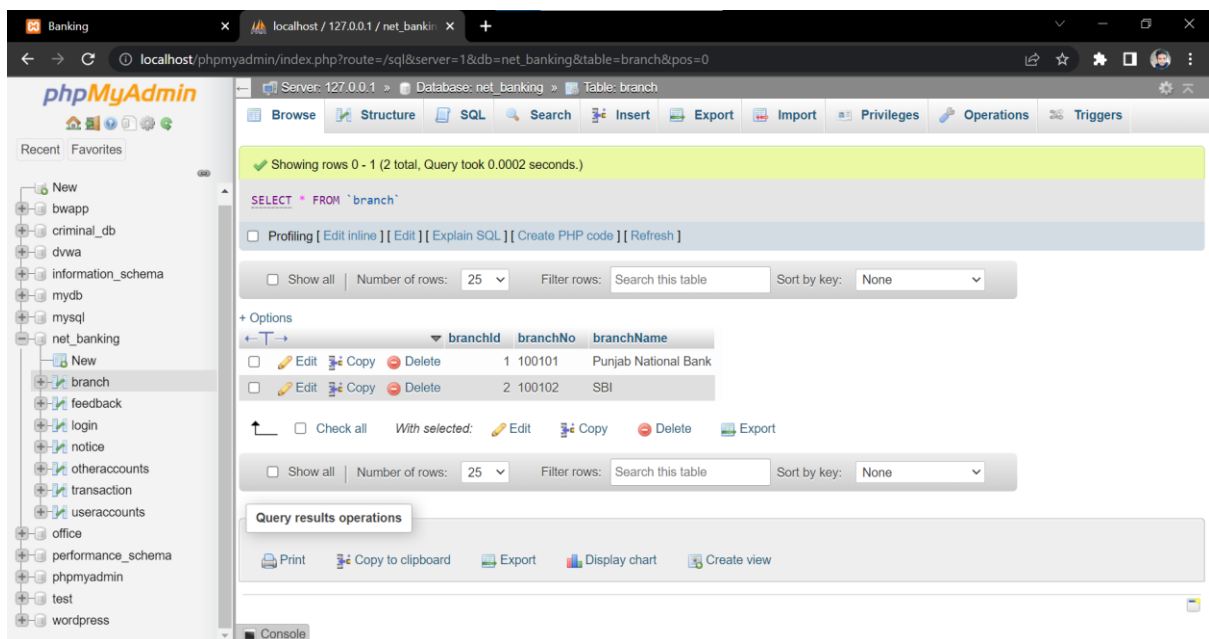
The screenshot shows the same web browser window as the previous one, but with the "Get Account Info" button clicked. The page now displays the account information and transaction options. The "Account No." field shows "1234561", the "Account Holder Name" is "Soumya Kumar", and the "Account Holder Bank Name" is "BANK OF UNION". The "Bank Balance" is listed as "Rs.9800". The "Transaction Process" section includes two input fields: "Write Check Number" and "Write Amount for withdraw", with a blue "Withdraw" button below them. Below these, there are two more input fields: "Write Check Number" and "Write Amount for deposit", with a green "Deposit" button below them. The footer of the page displays "BANK OF UNION".

**Results:-**

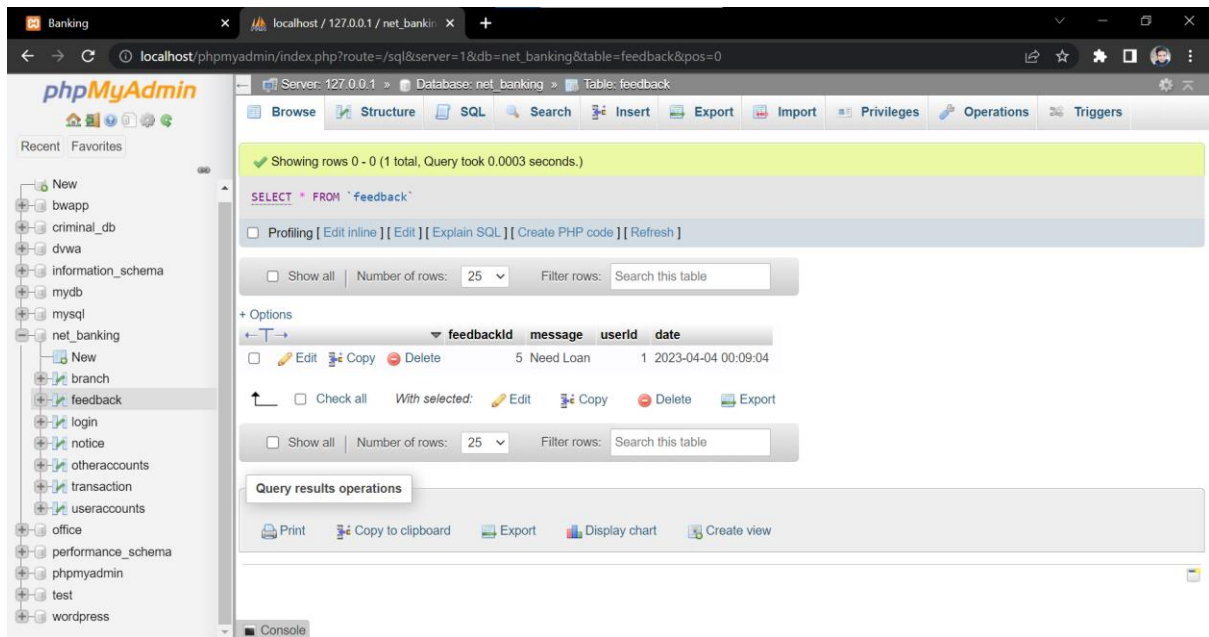
Database



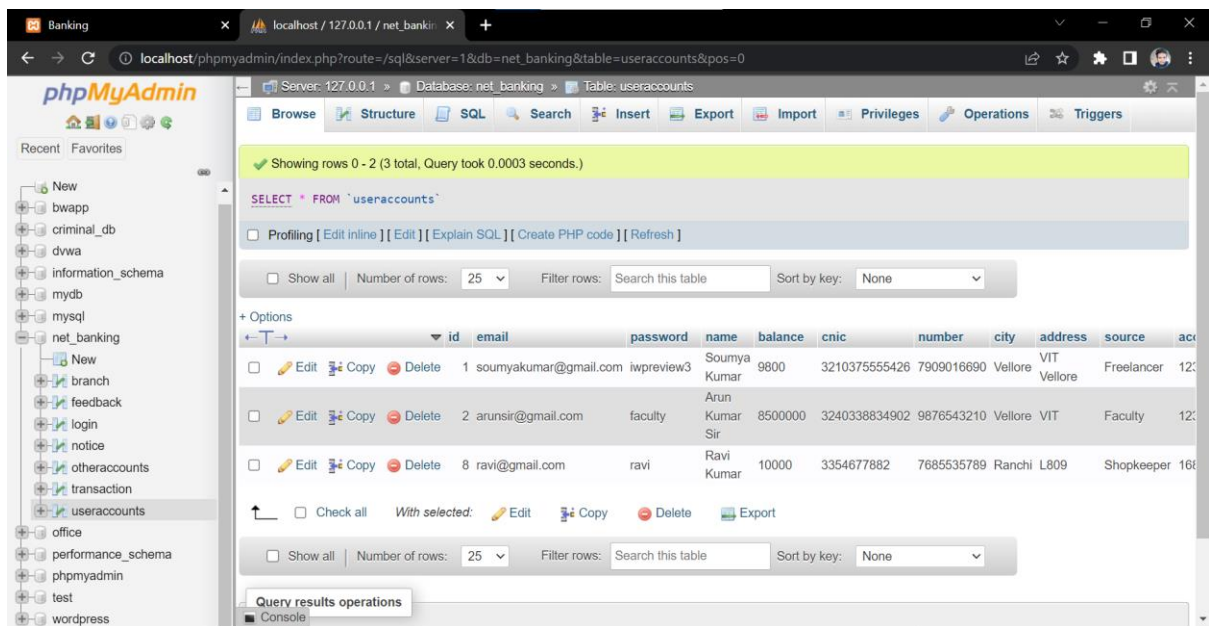
## Branch



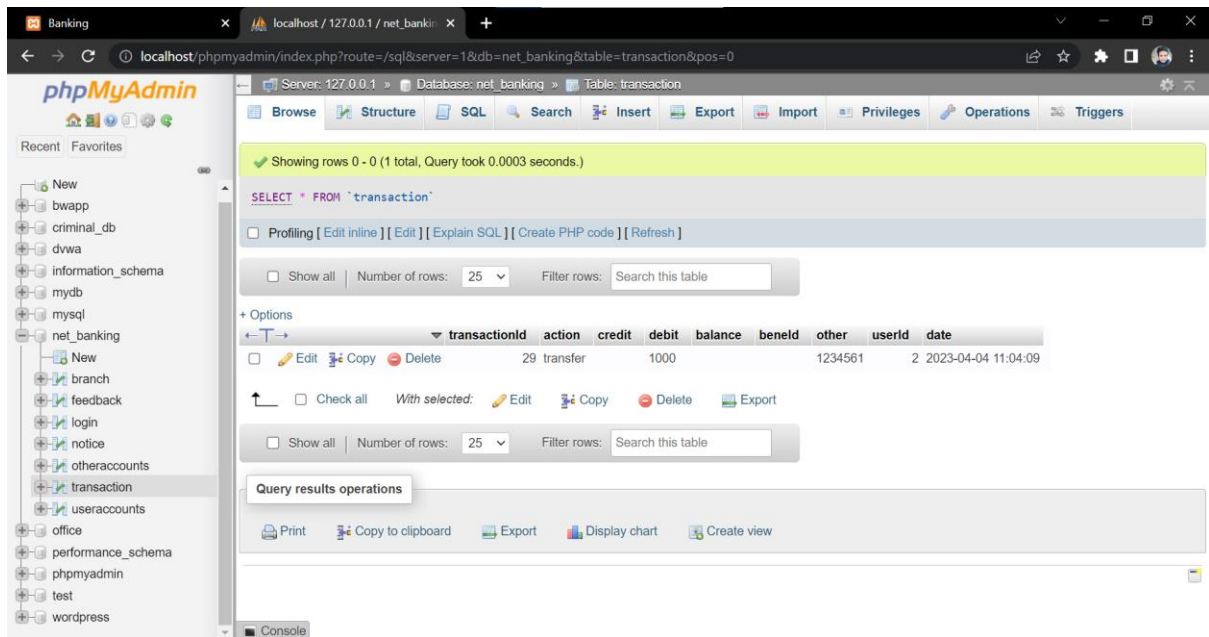
## Feedback



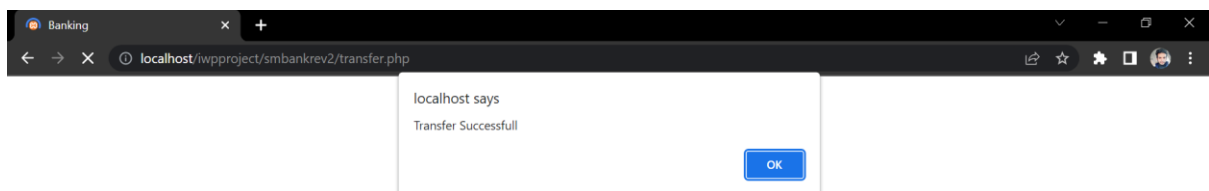
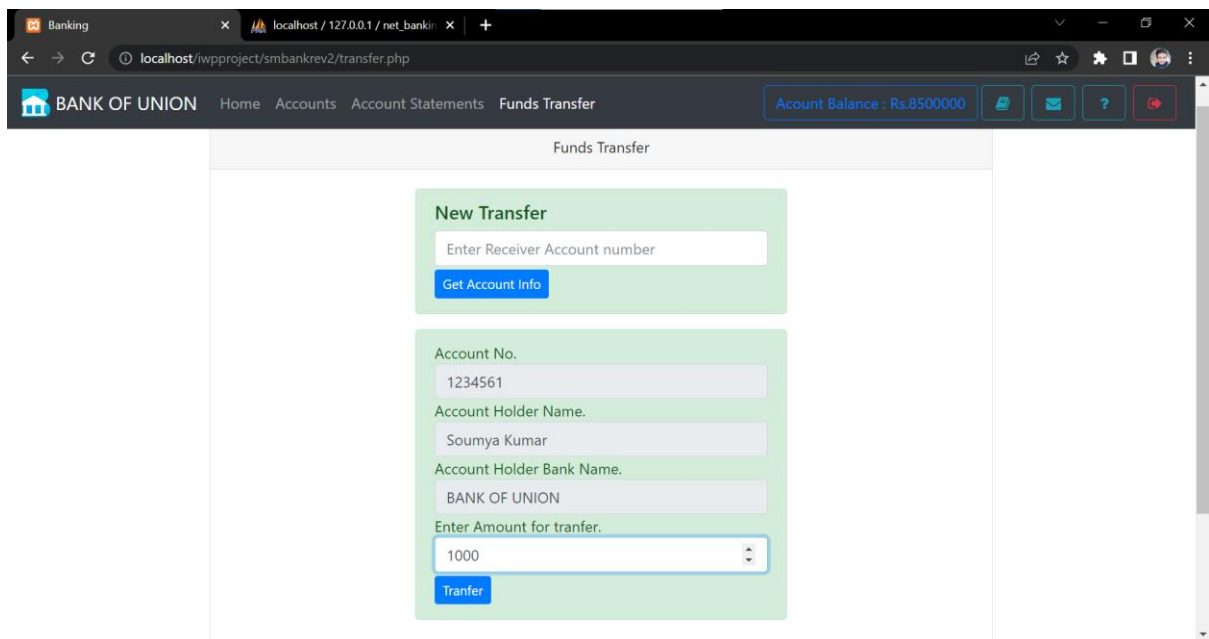
## User accounts



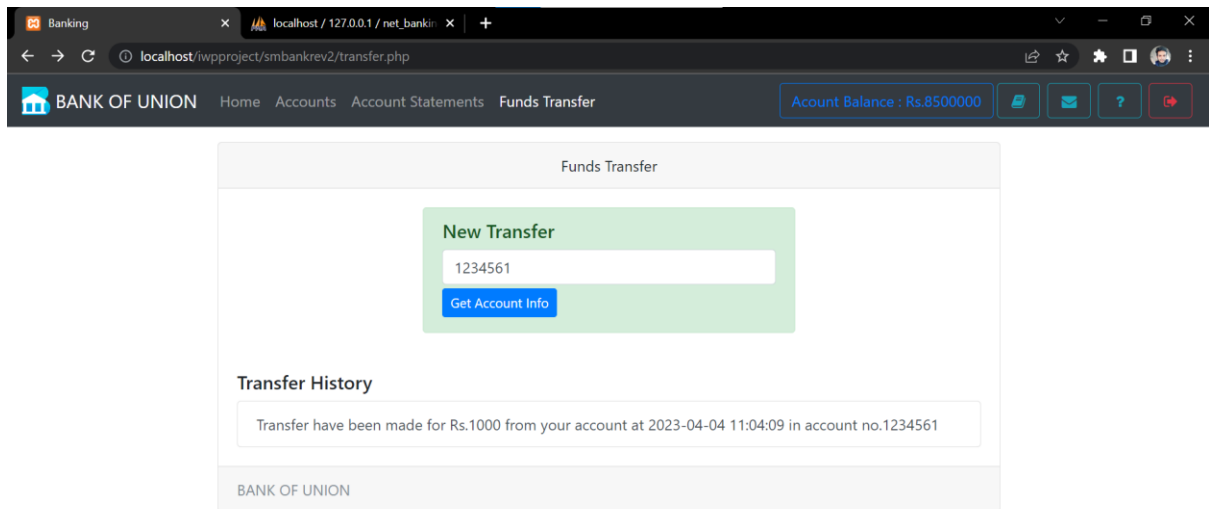
## Transaction



## Implementation Transaction







## Conclusion

We have successfully designed, develop and implemented this Bank Management system which provides a more secured approach in managing bank customer's information and strengthens the relationships between banks and their customers by providing the right solutions that uses a multi-level security to improve customer satisfaction. We, therefore, encourages other developers of similar application to think twice on how best they can improve in developing a more secured system that will meet the challenges we face today especially on the banking sector and other financial institutions.

## References

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- <https://www.sc.com/in/>
- <https://www.yesbank.in>
- <https://www.hdfcbank.com>
- <https://home.barclays>
- <https://www.jpmorganchase.com>
- <https://www.goldmansachs.com>