Secure Web Programming (TLEN 5839) Bank application System

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Application Users

Bank Admin

- They are the ones who can create new accounts.
- Only the admin has the access privilege to login into the database and view all the existing accounts and their details.
- They also have the privilege to delete an account in case of reported fraud theft.

Bank account holders

- Those who have an account in this bank can login and view their account balances,
- make transfers to different accounts within the bank and
- view their bank statements.

Application usage

Admin

- Admin logs into the system.
- After the admin creates an account for a customer, the details of the customer will be included in the database and he will be able to login into his account.
- Once a theft is reported, the admin deletes the account holder's information along with his credit card details by using his SSN number.

Customers/Account Holders

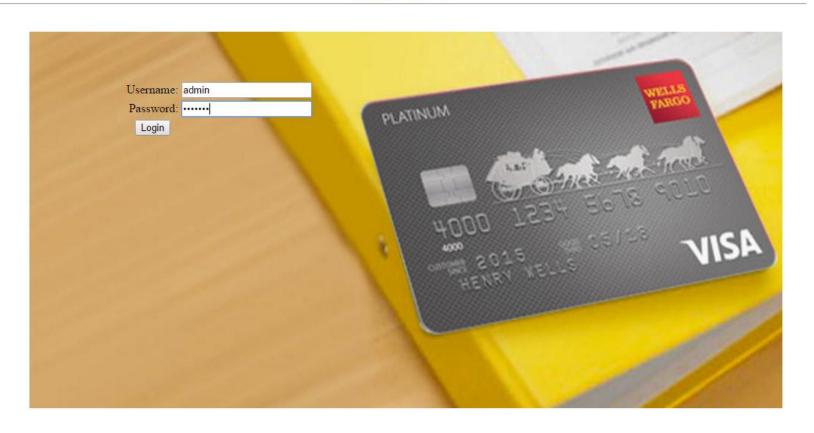
- After a user logs into the system he will be directed to the default tab **Accounts** page which displays his account details with balances.
- The **Transfers** tab provides amount transfer feature. User can transfer cash between different accounts within the bank (Form validation is done for this functionality).
- The **Statements** tab displays the details about each transfer that the customers make.

System

- It keep records of IP addresses that tries to login and blocks an unauthorized user after 5 failed attempts.
- It automatically updates the balances of accounts involved in a transaction.

Admin functionalities – Login page

Home | Secure Login

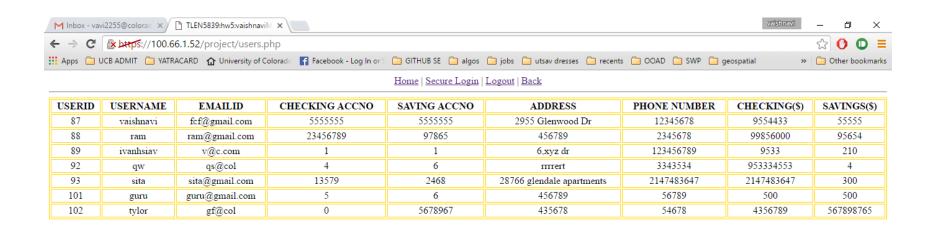


Admin functionalities – Account Creation page

Home | Secure Login

T To Charles Co.	
Username:	
Password:	
Email:	
Home Address:	
Mobile number:	
SSN number	
Checking Account number:	Initial deposit: \$
Savings Account number:	Initial deposit: \$
Check Users Add New U	sers Check login attempts Fraud Handling Logout

Admin functionalities Viewing account holders of the bank



Admin functionalities - Deleting an account in case of reported frauds

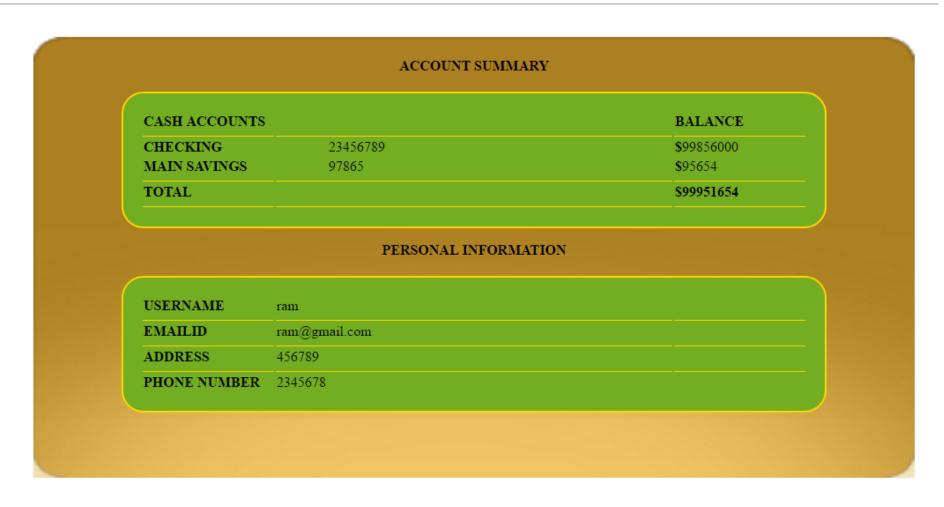
Home Secure Login Logout Back				
SEARCH FOR AN ACCOUNT HOLDER				
Enter account holder's SSN:				
Submit				

Home occure zogm zogom						
DETAILS OF ACCOUNT HOLDER WITH SSN NUMBER: 123						
USERNAME:	guru					
EMAILID:	guru@gmail.com					
USERID:	101					
CHECKING ACCNO:	5	CHECKING(\$):	\$500			
SAVING ACCNO:	6	SAVINGS(\$):	\$500			
ADDRESS:	456789					
PHONE NUMBER:	56789]				

Home | Secure Login | Logout

Customer functionalities — Check Balances

Accounts | Transfers | Statements | Logout



Customer functionalities – Make Transfers (Form is validated before a transfer is made)

Accounts | Transfers | Statements | Logout

*FROM ACCOUNT	: 1323	Sry! You can enter only your account number
*RECIPIENT NAME	: sita	
*TO ACCOUNT	: 13579	
*AMOUNT	S 2000000000	Sry! your balance is less!
*SEND DATE	mm/dd/yyyy	Select date
*DESCRIPTION		Enter a description
		Submit

Customer functionalities – Make Transfers (Form is validated before a transfer is made)

Validations made – The form throws an error if

- From Account: If it does not match the account number of the user who has logged in.
- To Account: If it does not match to an existing account holder of the bank.
- Receiver name: The To account entry and the corresponding receiver name should match.
- Amount: Amount entered should be less than the available balance.
- Date, Description, From account, To Account, Receiver name and the amount are all required fields and they cannot be empty.

It also throws an error if the From Account, To Account and Amount has alphabets instead of numbers in them.

Also, the receiver name field should not contain numbers.

Customer functionalities – Statements tab

Accounts | Transfers | Statements | Logout

TO ACCOUNT	1	
AMOUNT	\$200	
SENDDATE	2016-12-31 00:00:00	
DESCRIPTION		Testing transfers
TO ACCOUNT	1	
AMOUNT	\$200	
SENDDATE	2016-12-31 00:00:00	
DESCRIPTION		Transfer
TO ACCOUNT	1	
AMOUNT	\$200	
SENDDATE	2016-04-22 00:00:00	
DESCRIPTION		Transfer

Thankyou! ©