

BANK APPLICATION

Types: There are three types of users for this application.

- 1) Admin.
- 2) Manager.
- 3) Clerk.

Users and their roles:

- 1) **Admin:** Admin can perform all actions on an account among all the users. These actions include creating new account, create new user for the application, Suspend a account and delete a account.
- 2) **Manager:** The actions for Manager include update account, Transfer fund that require approval. Manager is also an user who has limited actions.
- 3) **Clerk:** Clerk can only perform action fund transfer and get transaction history since Clerk is the low tier user.

Actions:

- 1) **Login:** This is used to login for particular person. It takes parameters like username and password. If login fails he/she will be redirected to home page.
- 2) **AddUser:** This action allows us to add user. The inputs are username, password, user type, address, phone number, email, aadhar card and pan card.
- 3) **Fund Transfer:** This action allows an user to transfer fund from one account to another. It takes 3 parameters from account number, to account number and amount to transfer.
- 4) **AddAccount:** It is similar to add user but it takes an extra input called user type which indicates whether the user is an admin, manager or clerk.
- 5) **ShowAllAccounts:** Show all accounts is used to display all the accounts in the accounts table.
- 6) **ShowAllUsers:** Show all users is used to display all the users in the users table which include admin, manager or clerk.
- 7) **Deposit:** This action allows us to deposit money in user account. It takes parameters like account number and amount to be deposited.
- 8) **Withdraw:** This action allows the user to withdraw money from his account. It takes two parameters like account number and amount to withdraw.
- 9) **UpdateAccount/UpdateUser:** Used to update details for an user or an account.

Validations:

Account number: Account number is validated by checking whether it is already existing in database or not.

Withdraw: The amount for withdraw will also be validated since it should always be less than the current balance.

Fund Transfer: Fund transfer also requires validation for both account numbers and money to be transferred.

Validations also include not null(which indicates that the details should be filled), should enter number(should enter number only), should enter string(should enter string only) etc.

Updating User/Account:

While updating user/account only specific data can be updated. The data are Address, Phone and Email.

Aadhar card and Pan card cannot be updated for an user/account.

The type of user can also be changed by the admin.

Output:

Home page



Sign up page

A screenshot of a web browser showing the sign up page. The address bar displays 'localhost:8080/mvc1/signup'. Below the address bar, there are two input fields: 'Enter username:' and 'Enter password:'. Below these fields is a button labeled 'sign up'.

Login page

← → ↻ ⓘ localhost:8080/mvc1/login

Enter username:

Enter password:

Admin welcome page:

← → ↻ ⓘ localhost:8080/mvc1/home

Welcome, ADMIN

[Show All Users](#)

[Show All Accounts](#)

[Add User](#)

[Add Account](#)

[Logout](#)

Show all users

← → ↻ ⓘ localhost:8080/mvc1/showallusers ☆ ⓘ

id	username	userType	address	phone	email	update	delete
2	shyam m	ADMIN	vizag	7011111111	s.s@gmail.com	update user	delete user

Add user

← → ↻ ⓘ localhost:8080/mvc1/adduser

Enter username:

Enter password:

Enter userType: ▼

Enter address:

Enter phone:

Enter email:

Add account

    localhost:8080/mvc1/addaccount

Enter name:

Enter balance:

Enter address:

Enter phone:

Enter email:

Enter AadharCard:

Enter Pan Card:

Transfer Amount:





    localhost:8080/mvc1/transfer

Enter from account

Enter to account

Enter amount

Withdraw amount





    localhost:8080/mvc1/withdraw

Welcome

Enter account number:

Enter amount to be transferred:

Deposit amount

    localhost:8080/mvc1/deposit

Welcome

Enter account number:

Enter amount to be transferred:

Success page

