

BANK APPLICATION

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

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

Users and their roles:

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

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) **Deposit:** This action allows us to deposit money in user account. It takes parameters like account number and amount to be deposited.
- 4) **Withdraw:** This action allows the user to withdraw money from his account. It takes two parameters like account number and amount to withdraw.
- 5) **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.
- 6) **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.
- 7) **ShowAllAccounts:** Show all accounts is used to display all the accounts in the accounts table.
- 8) **ShowAllUsers:** Show all users is used to display all the users in the users table which include admin, manager or clerk.
- 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.

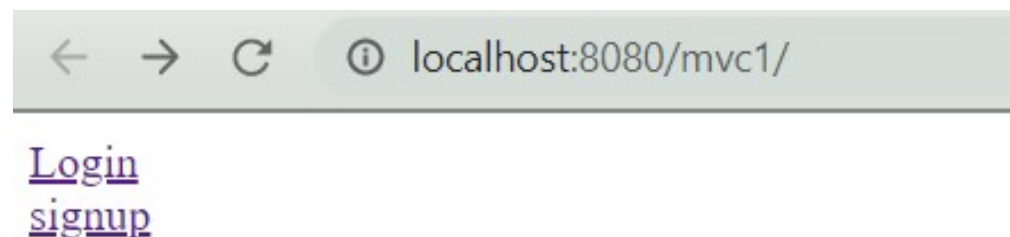
Updating User/Account:

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



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:

add account

Transfer Amount:

    localhost:8080/mvc1/transfer

Enter from account

Enter to account

Enter amount

Submit

Withdraw amount

    localhost:8080/mvc1/withdraw




Welcome

Enter account number:

Enter amount to be transferred:

transfer amount

Deposit amount

    localhost:8080/mvc1/deposit

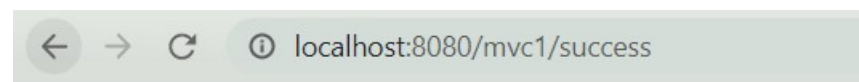
Welcome

Enter account number:

Enter amount to be transferred:

transfer amount

Success page



success money is transfered
[transfer](#)