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:

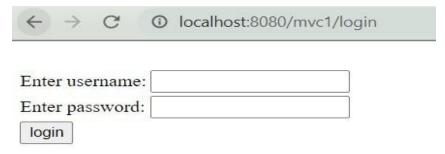
Home page

\leftarrow	\rightarrow	C	1	localhost:8080/mvc1/	
Logi sigm					

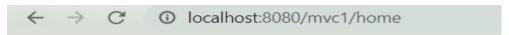
Sign up page

← → G	localhost:8080/mvc1/signup	
Enter username:		
Enter password:		
sign up		

Login page



Admin welcome page:



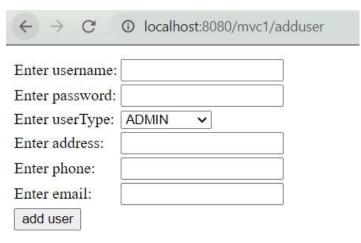
Welcome, ADMIN

Show All Users
Show All Accounts
Add User
Add Account
Logout

Show all users



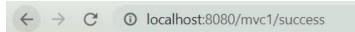
Add user



Add account

← → C
Enter name:
Enter balance:
Enter address:
Enter phone:
Enter email:
Enter AadharCard:
Enter Pan Card:
add account
Transfer Amount: ← → C ① localhost:8080/mvc1/transfer
Enter from account
Enter to account
Enter amount
Submit
Withdraw amount
← → C
Welcome
Enter account number:
Enter amount to be transferred:
transfer amount
Deposit amount
← → C
Welcome
Enter account number:
Enter amount to be transferred:
transfer amount

Success page



success money is transfered <u>transfer</u>