

## **BANK APPLICATION SCREENSHOTS**

There are three types of users for this application. Admin, Manager, 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) **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

*Welcome, Customer HCL BANK APPLICATION*

**BANK APPLICATION**

Login  
signup

Sign up page

*Welcome, Customer HCL BANK APPLICATION*

**SIGN UP FORM**

Enter username:

Enter password:

sign up

Login page

Enter username:

Enter password:

Admin welcome page:

**Welcome, ADMIN**

[Show All Users](#)  
[Show All Accounts](#)  
[Add User](#)  
[Add Account](#)  
[Logout](#)

Add user

Enter username:

Enter password:

Enter userType:  ▼

Enter address:

Enter phone:

Enter email:

## Add account

Enter name:	<input type="text"/>
Enter balance:	<input type="text"/>
Enter address:	<input type="text"/>
Enter phone:	<input type="text"/>
Enter email:	<input type="text"/>
Enter AadharCard:	<input type="text"/>
Enter Pan Card:	<input type="text"/>
<input type="button" value="add account"/>	

## Transfer Amount:

Enter from account	<input type="text"/>
Enter to account	<input type="text"/>
Enter amount	<input type="text"/>
<input type="button" value="Submit"/>	

## Withdraw amount

### Welcome

Enter account number:	<input type="text"/>
Enter amount to be transferred:	<input type="text"/>
<input type="button" value="transfer amount"/>	

## Deposit amount

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### Welcome

Enter account number:	<input type="text"/>
Enter amount to be transferred:	<input type="text"/>
<input type="button" value="transfer amount"/>	

Success page

success money is transfered  
[transfer](#)