

Banking Application Using Spring MVC and Hibernate

In this application there are types of users with different responsibilities. Those roles are:

- 1.Admin
- 2.Manager
- 3.clerk

1.Admin:

When a person logged in as an Admin means he can perform all the actions like add a new user, see all users, update the existing user, delete the user, create a new account, see all the accounts, update the account, delete the existing account, etc.

2.Manager:

Manager can also do some of the actions like he can transfer the money, deposit and withdraw and gives required approval also.

3.Clerk:

He is the person who can check all the transactions and get the transactions for individual account.

The modules in this Application:

1.welcome page: This is the starting page of the application which is redirecting to login page.

2.login page: Here the person need to login and that person role should be like Manager, Clerk and Admin. If credentials are correct means person will be entered into home page.

3.home page: Here based on the role of the person, the UI will be visible

4.add user: In this admin can add user with details like username, password, address, email and phone number.

5. update user: Updating the existing user with details like username, password, email, phone and address.

6.delete user: deleting the existing user

7.Add new account: create a new account with the details like name, Aadhar Number, PAN number, phone, email, address, balance, account type.

8.update account: An account can be updated with address only like we can change the address, phone and email of a particular account.

9.delete Account: deleting the existing account

10.show all accounts: This functionality will display all the accounts in the database

11.show all users: This will display all the users in the database including Admin, Clerk and Manager.

12.Deposit: Here money will be deposited into the account that specified in account id filed.

13.withdraw: Here money will be withdrawn from the account that specified in account id filed.

14.transfer: Here money will be transferred from the from Account that specified in **from account** id filed to the **to account** that is specified in to account id filed.

15.success page: When any Transaction completed means this success page will be returned and ask us to go to home page

Exception handlers:

1.404 page not found: here 404 UI page will be returned by saying some information and ask us to go to home page.

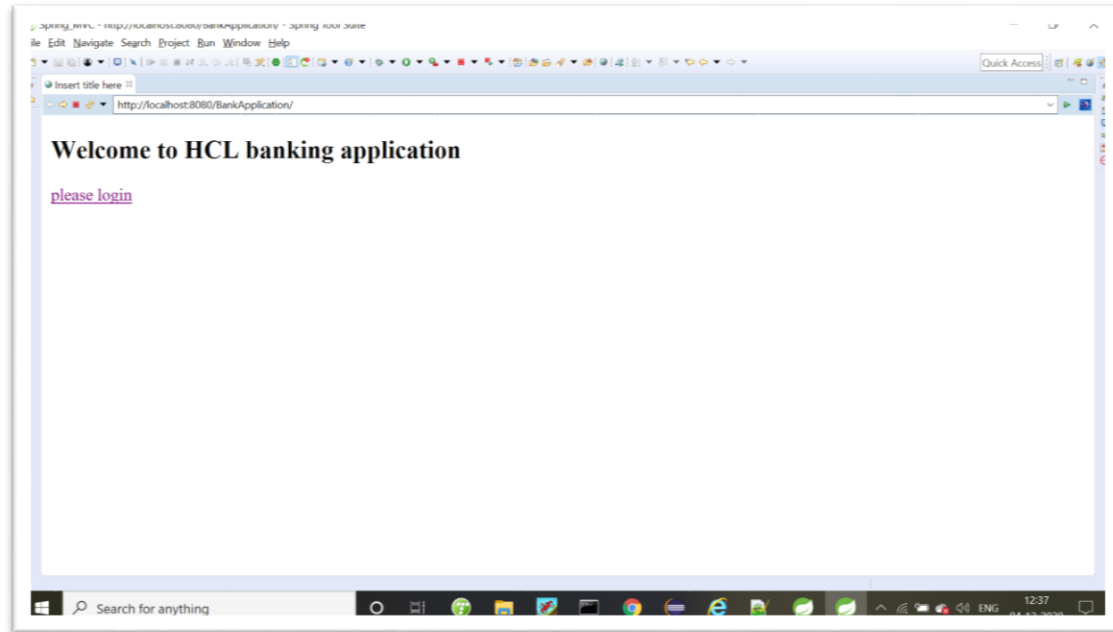
2.DataAccessException: In this page when any dataAccessException occurred means this page will return some information

3.AccountNotFoundException: If the account which is requested by the user is not exists, then this error is handled by this page and suggest us to visit home page.

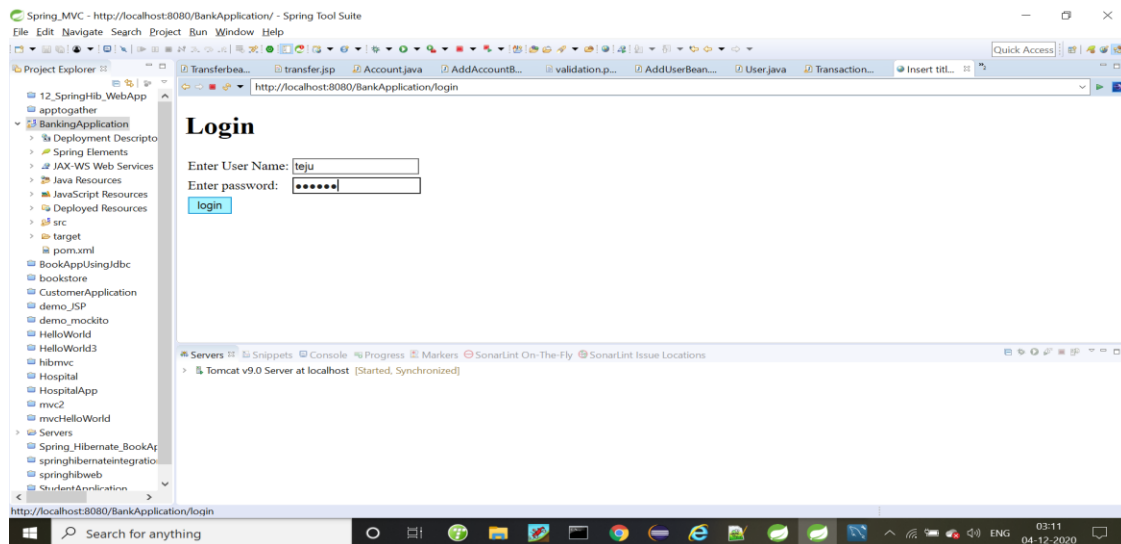
4.UserNotFoundException: If the User is not existing, then this error is handled by this page and suggest us to visit home page.

Screenshots:

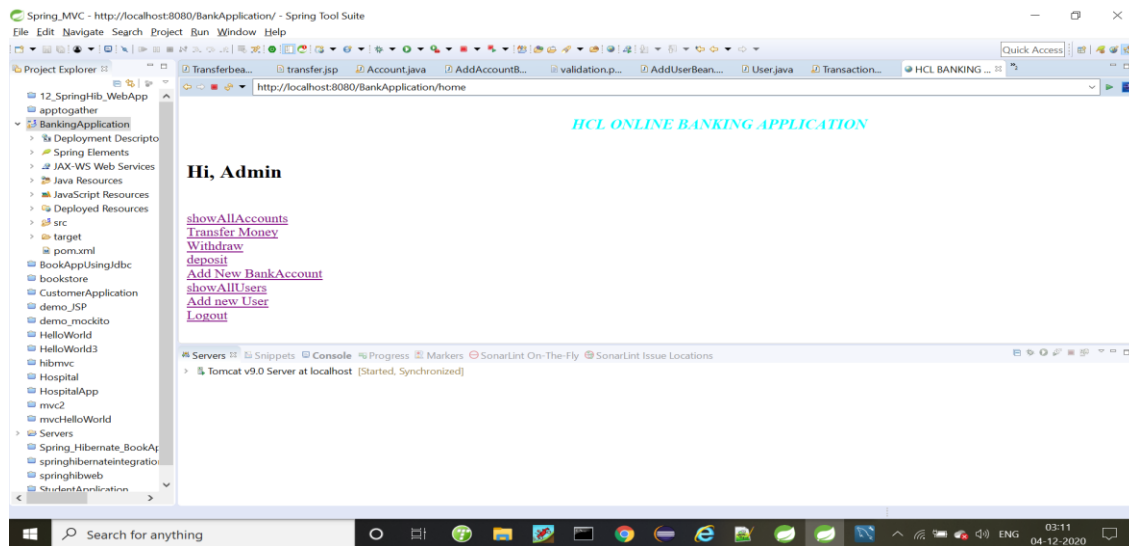
1.Welcome Page:



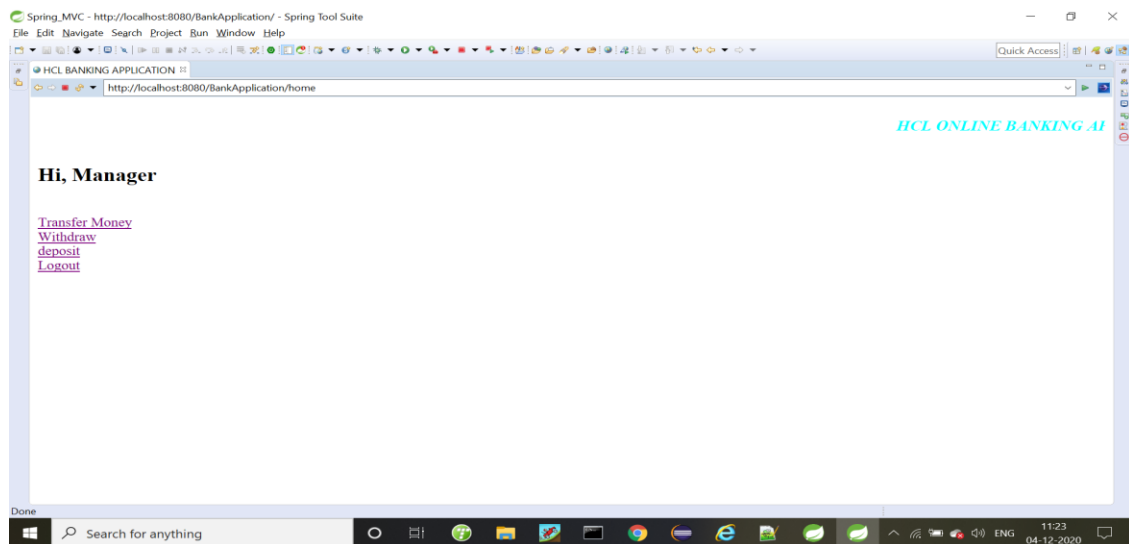
2.Login Page



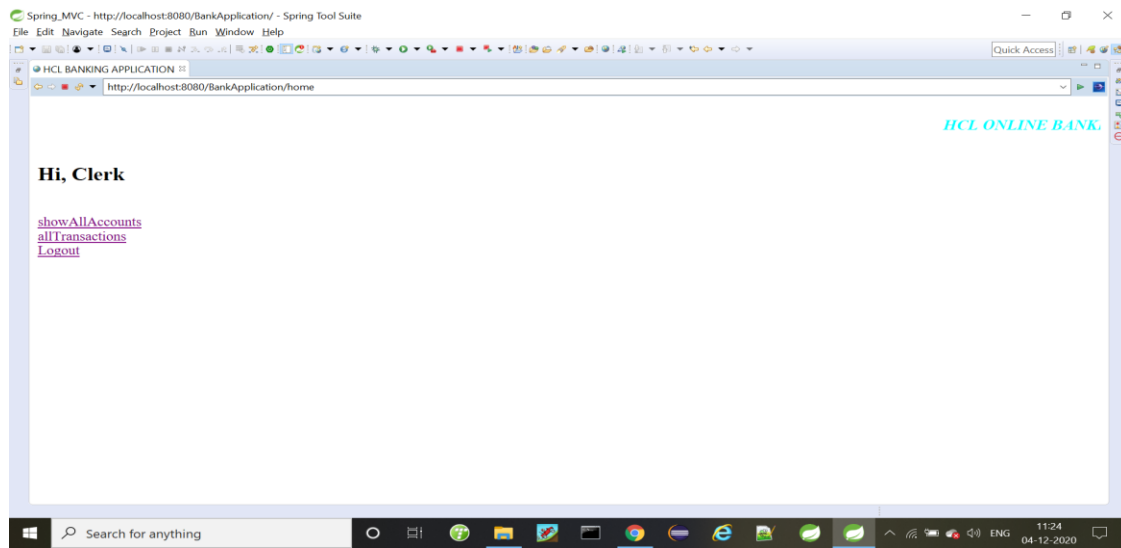
3.Home page(Admin)



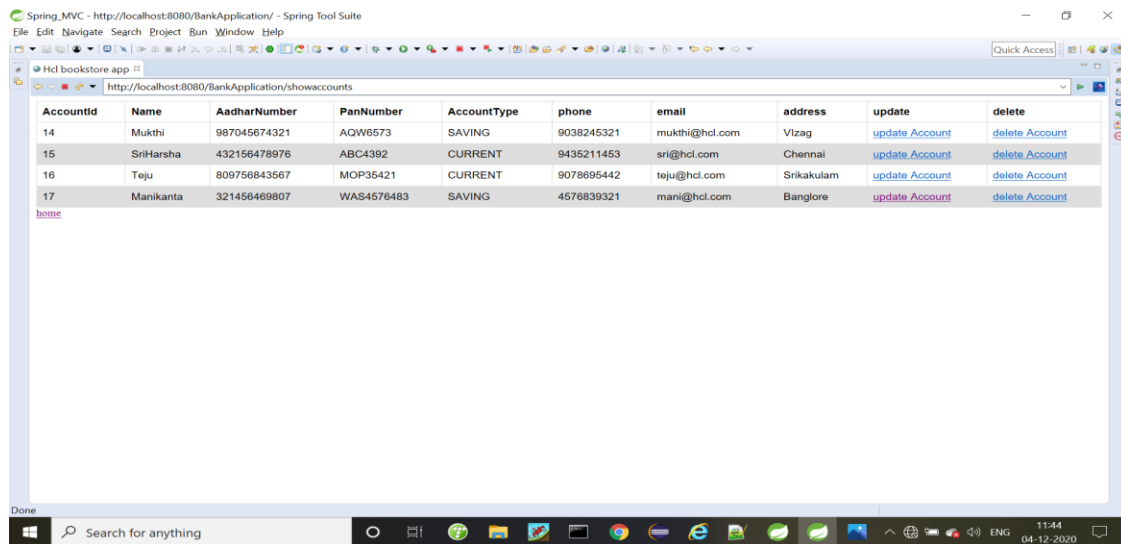
4.Home page(Manager)



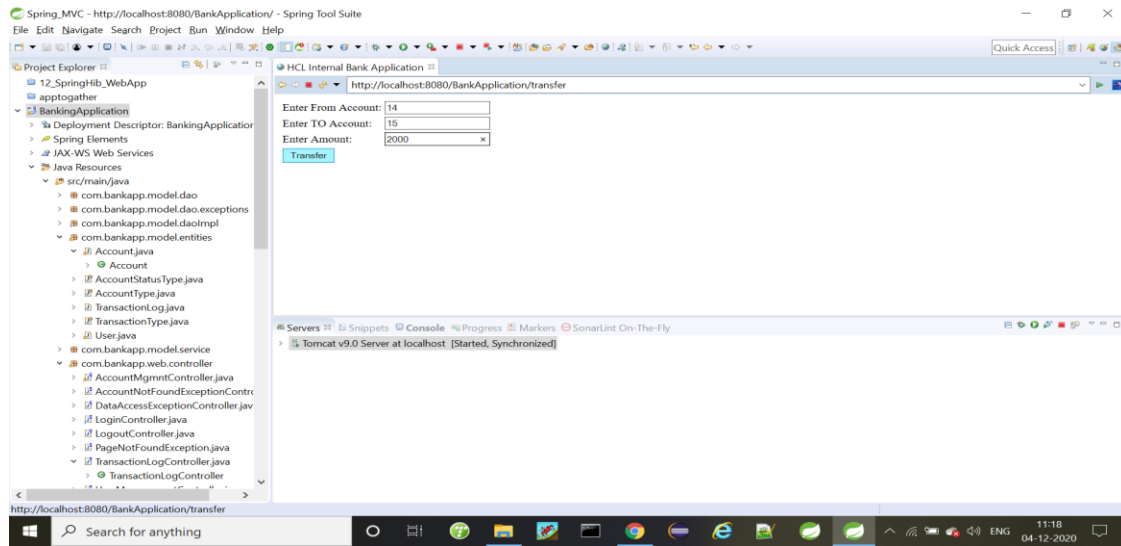
5.Home Page(Clerk)



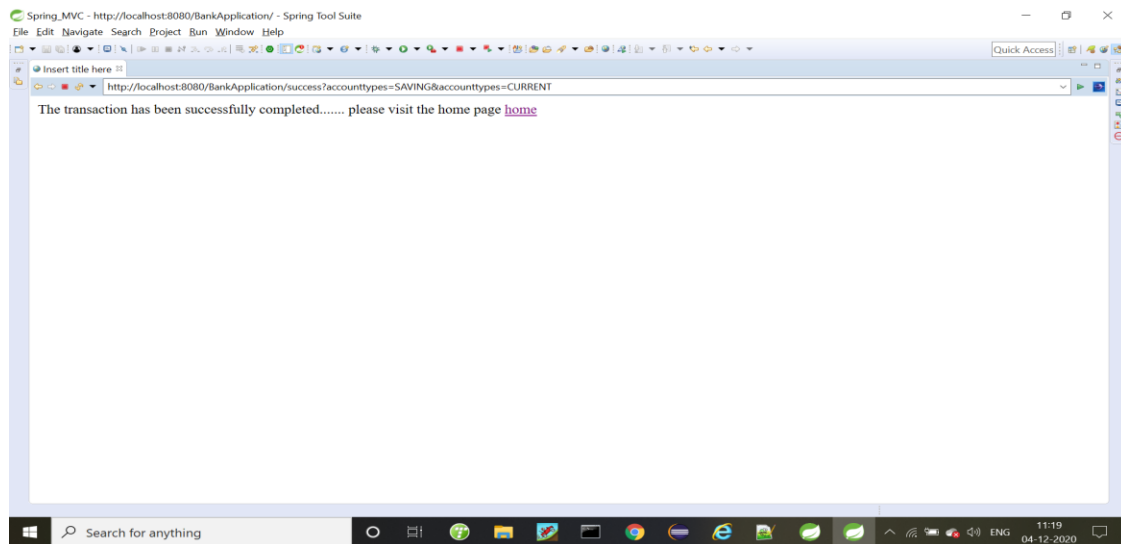
6.Show all accounts



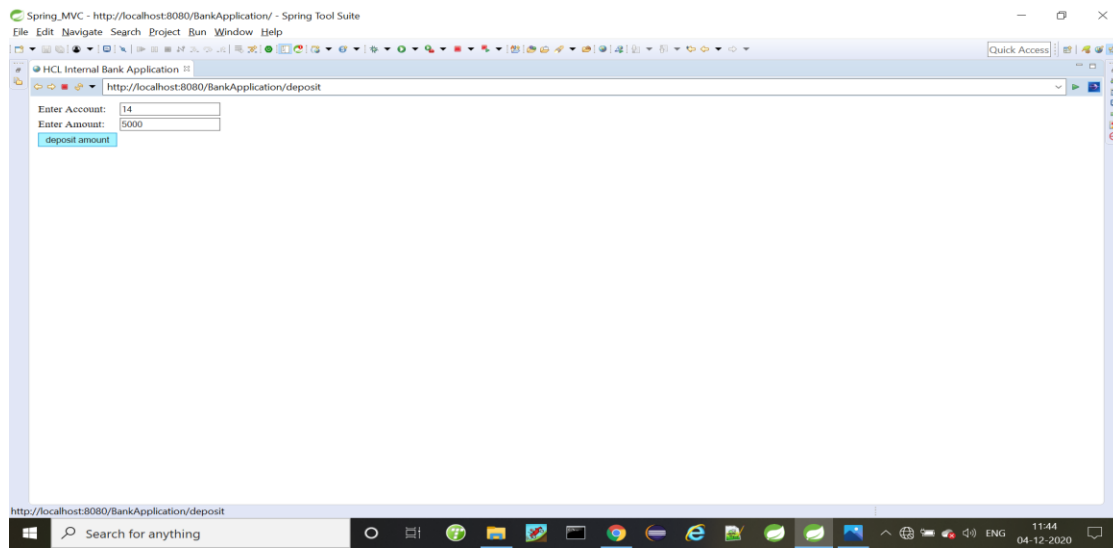
7.Transfer



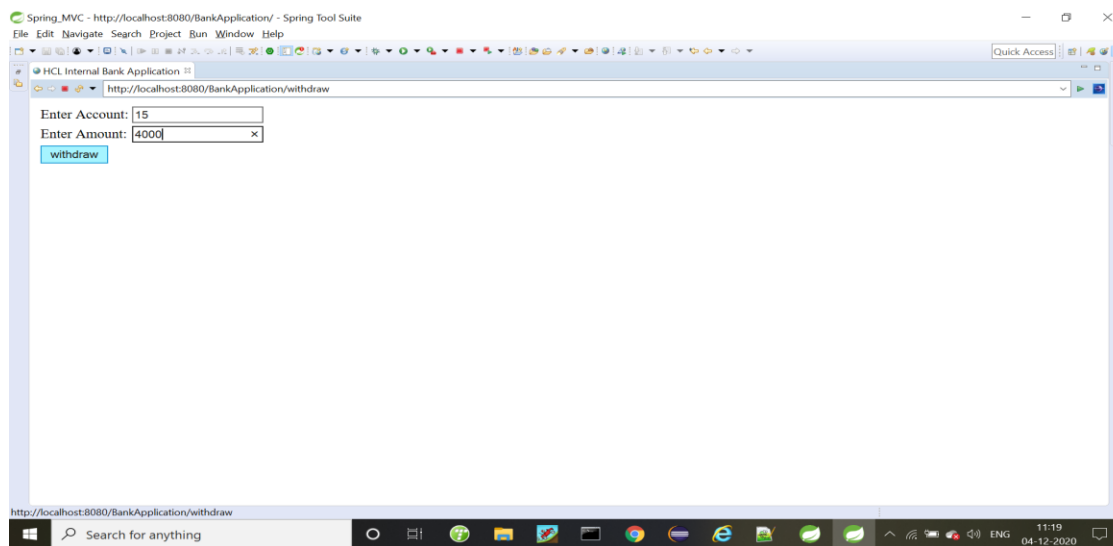
8. success message page



9.Deposit



10.withdraw



11.Add Account

The screenshot shows the Spring MVC application interface. The Project Explorer on the left lists the project structure, including the 'BankingApplication' module. The main window displays the 'Add new book' form at the URL `http://localhost:8080/BankApplication/addaccount`. The form contains the following fields and values:

- Enter name: SriHarsha
- Enter address: Chennai
- Enter phone: 9435211453
- Enter email: sri@hcl.com
- Enter panNumber: ABC4392
- Enter AadharNumber: 432150478976
- Select account type: CURRENT

Red error messages are displayed next to the address, phone, email, and AadharNumber fields, indicating they cannot be left blank. A 'Submit Query' button is at the bottom of the form. The console output at the bottom shows a SQL query:

```
select
  transaction0_.account_id_fk as account_6_2_0_,
  transaction0_.txId as txId1_2_0_,
  transaction0_.txId as txId1_2_1_,
```

12.Update Account

The screenshot shows the Spring MVC application interface. The Project Explorer on the left lists the project structure, including the 'BankingApplication' module. The main window displays the 'Update Account' form at the URL `http://localhost:8080/BankApplication/updateaccount`. The form contains the following fields and values:

- Enter name:
- Enter address: Maharashtra
- Enter phone: 9803425314
- Enter email: mm@gmail.com
- Enter panNumber:
- Enter AadharNumber:
- Select account type: CURRENT

Red error messages are displayed next to the address, phone, email, and AadharNumber fields, indicating they cannot be left blank. An 'update Account' button is at the bottom of the form. The console output at the bottom shows a SQL query:

```
roles roles0_
```


13.Add user

Spring_MVC - http://localhost:8080/BankApplication/ - Spring Tool Suite

File Edit Navigate Search Project Run Window Help

Quick Access

Add new User

http://localhost:8080/BankApplication/addusers

Enter UserName

Enter Password

Enter Role

Enter phone

Enter address

Enter email

http://localhost:8080/BankApplication/addusers

Search for anything

11:21 04-12-2020

14.update User

Spring_MVC - http://localhost:8080/BankApplication/ - Spring Tool Suite

File Edit Navigate Search Project Run Window Help

Quick Access

Add new User

http://localhost:8080/BankApplication/updateuser?id=11

Enter UserName

Enter Password

Enter Role

Enter Phone

Enter Address

Enter Email

http://localhost:8080/BankApplication/updateuser

Search for anything

11:22 04-12-2020

15.show all users

Spring_MVC - http://localhost:8080/BankApplication/ - Spring Tool Suite

File Edit Navigate Search Project Run Window Help

Hd bookstore app

http://localhost:8080/BankApplication/showallusers

Userld	UserName	role	address	phone	email	update	delete
1	teju	[Admin, Clerk]	Delhi	8759322	t@gmail.com	update User	delete User
2	moksha	[Manager]	Srikakulam	932759322	mahi@gmail.com	update User	delete User
3	ram	[Clerk]	Maharastra	1354325222	meghagmail.com	update User	delete User
5	mukthi	[Admin]	Sikkim	4536842351	mukthi@hcl.com	update User	delete User
11	Harry	[Clerk]	kerala	9845678322	H@hcl.com	update User	delete User
12	Sekhar	[Clerk]	Tenali	9058674134	sekhar@hcl.com	update User	delete User

[home](#)

Done

Search for anything

11:21 04-12-2020

16. Show all transactions

Spring_MVC - http://localhost:8080/BankApplication/ - Spring Tool Suite

File Edit Navigate Search Project Run Window Help

Hd bookstore app

http://localhost:8080/BankApplication/showalltransactions

txld	txinfo	amount	txnType
1	deposit amount	1000.0	WITHDRAW
2	deposit amount	1000.0	DEPOSIT
3	deposit amount	1000.0	TRANSFER
4	deposit amount	250.0	WITHDRAW
5	withdraw amount	500.0	WITHDRAW
6	deposit amount	500.0	DEPOSIT
7	transfer amount	500.0	TRANSFER
8	deposit amount	600.0	DEPOSIT
36	withdraw amount	2000.0	WITHDRAW
37	deposit amount	2000.0	DEPOSIT
38	transfer amount	2000.0	TRANSFER
39	withdraw amount	4000.0	WITHDRAW

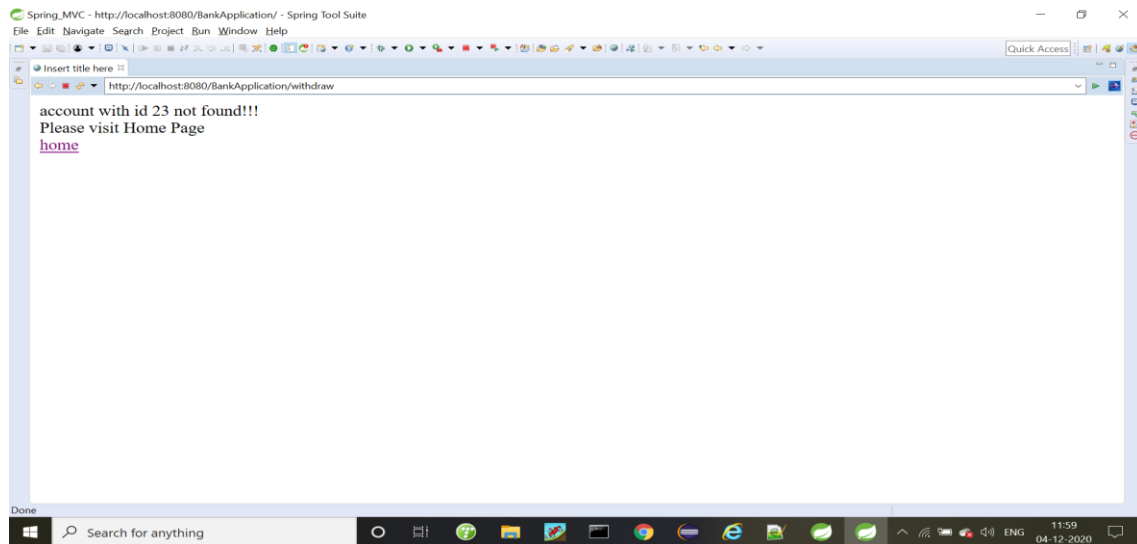
[home](#)

Done

Search for anything

11:25 04-12-2020

17.Account not found page



18.page not found error page

