

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.

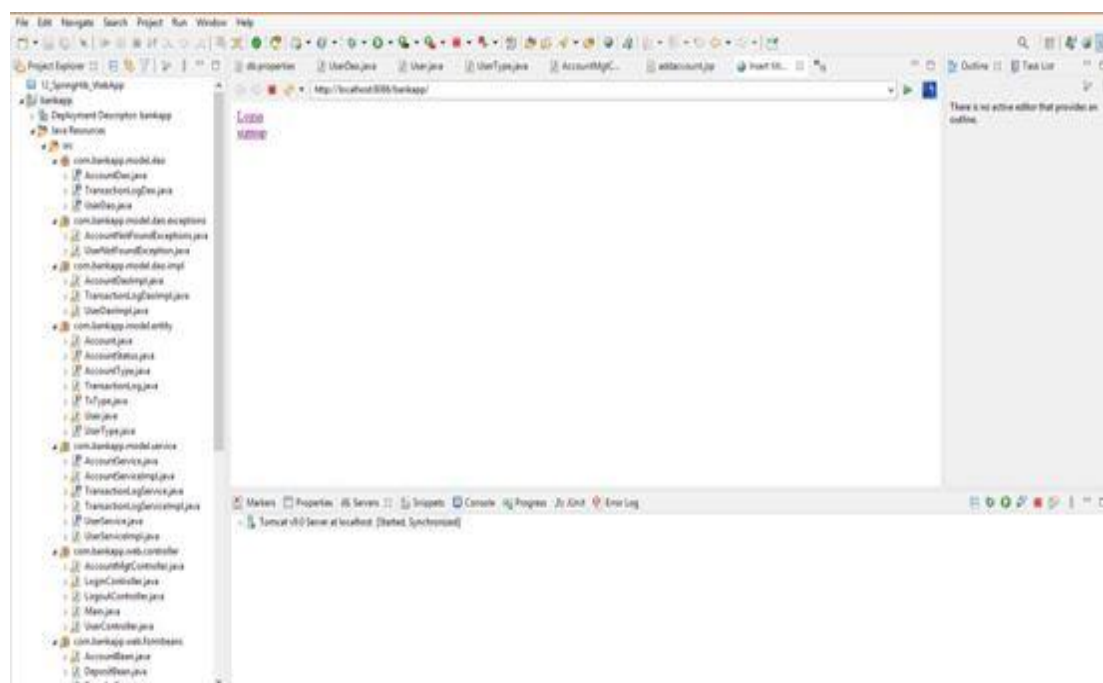
- Validations also include not null(which indicates that the details should be filled), should enter number(should enter number only), should enter string(should enter string only) etc.

Updating User/Account:

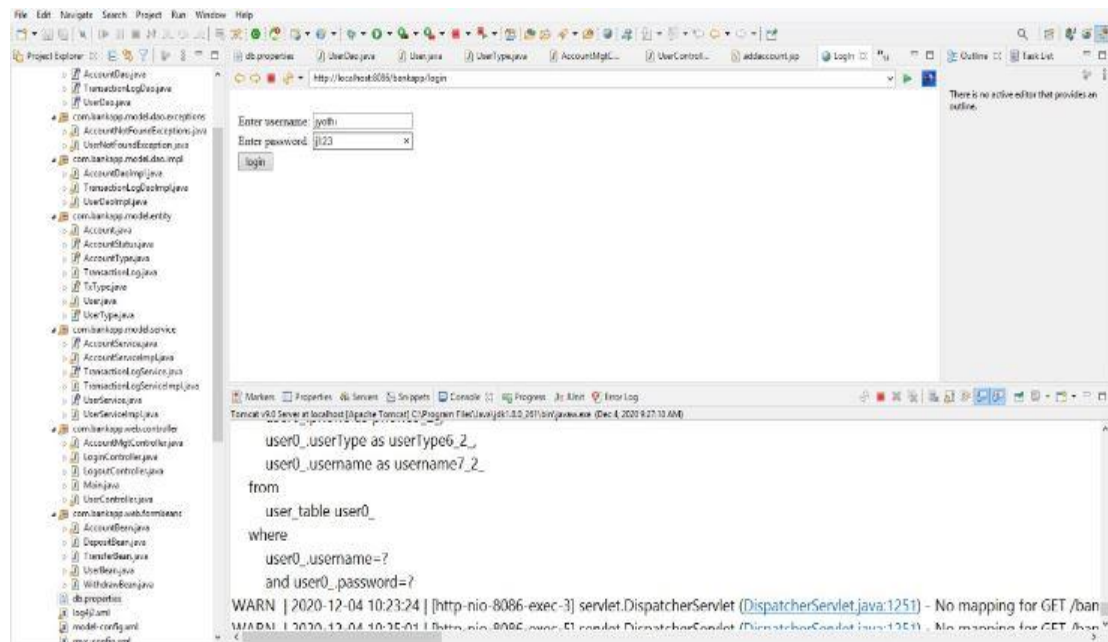
While updating user/account only specific data can be updated. The data are Address, Phone and Email.

- Aadhar card and Pan card cannot be updated for an user/account.
- The type of user can also be changed by the admin.

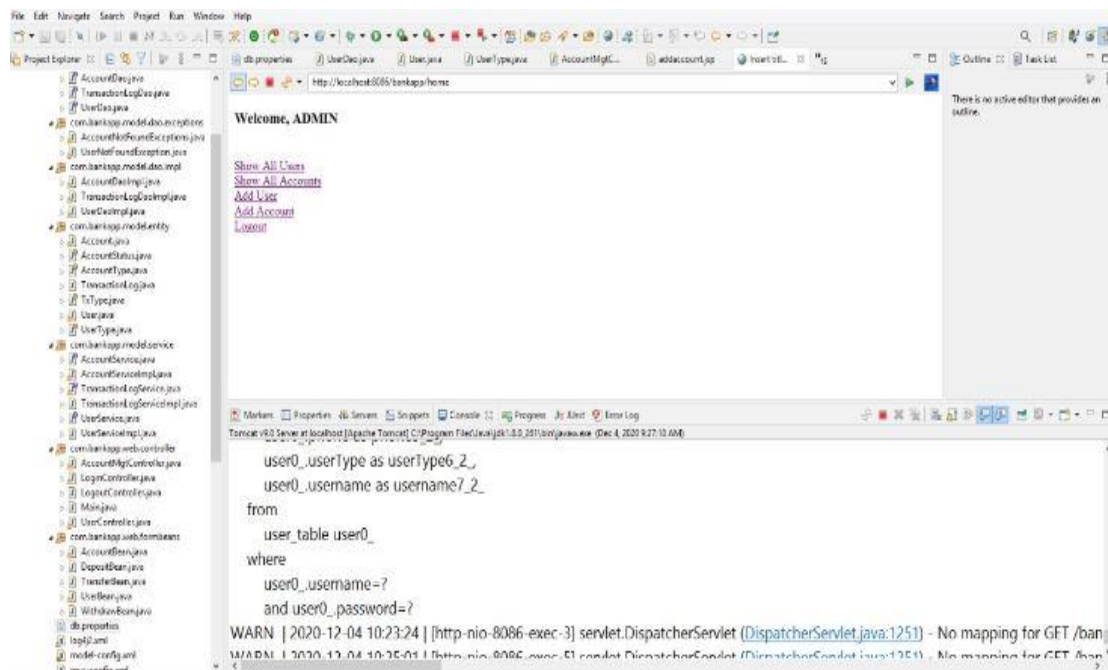
Home Page:



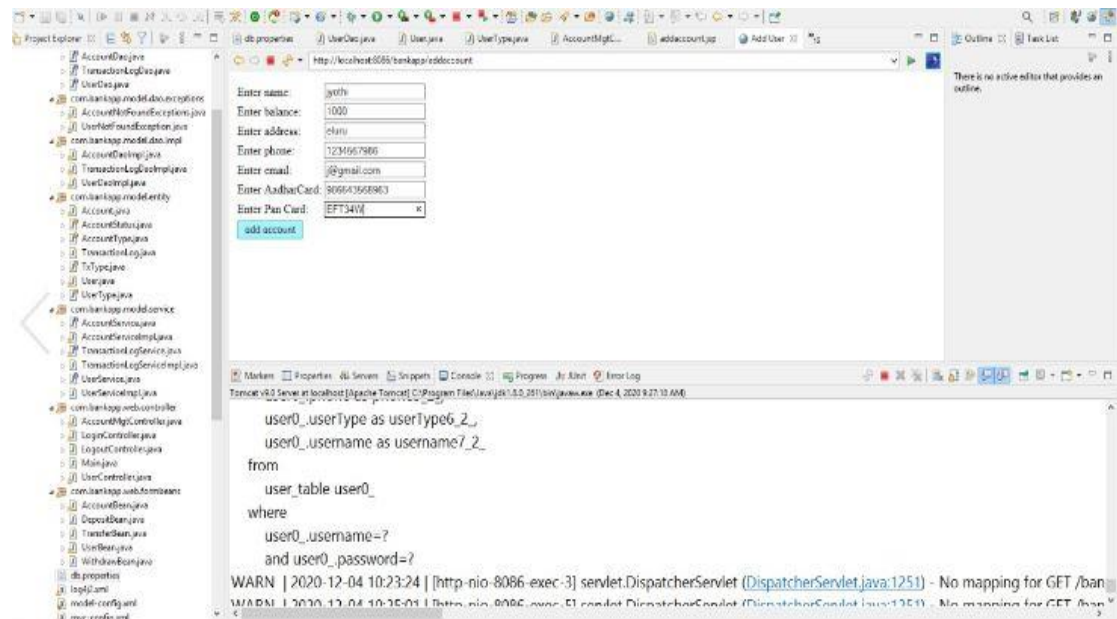
Login Page:



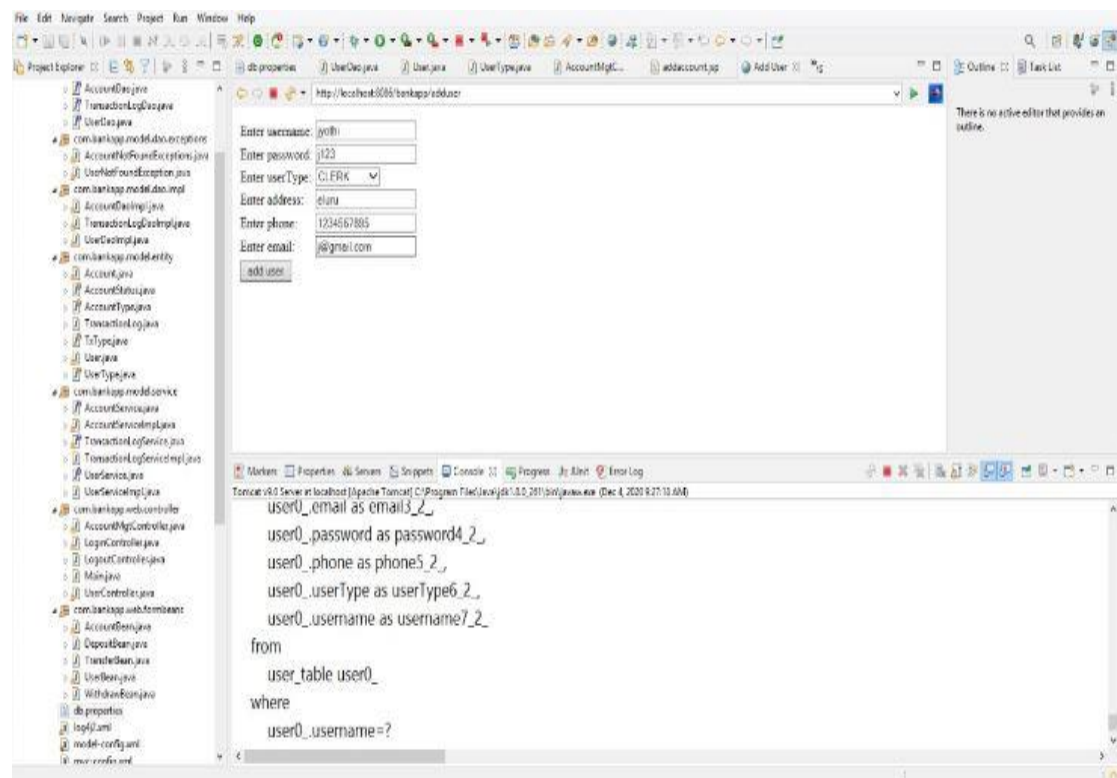
Admin Welcome Page:




Add Account:



Add User:



Output of Money Transfer:



Enter From Account 1

Enter To Account 2

Enter amount 200.0

Submit Query



The screenshot shows a web browser window with the address bar displaying "http://localhost:9000/bankapp2/success". The page content consists of the text "success money is transferred" followed by a purple, underlined link labeled "transfer".

Database Output:

```
mysql> select * from acc_table;
```

accountId	aadharCard	accStatus	accType	address	balance	email	name	panCard	phone
1	51894747	ACTIVE	SAVINGS	kvp	700	j@j.com	jyothi	AB1234	9550881191
2	51890747	ACTIVE	SAVINGS	ndd	300	j@p.com	priya	PP1234	95891191
3	51894747	ACTIVE	SAVINGS	kvp	900	j@j.com	sai	AB1234	9550881191
4	51890747	ACTIVE	SAVINGS	ndd	900	j@p.com	raj	PP1234	95891191

```
4 rows in set (0.00 sec)
```

```
mysql> select * from acc_table;
```

```
mysql> select * from acc_table;
```

accountId	aadharCard	accStatus	accType	address	balance	email	name	panCard	phone
1	51894747	ACTIVE	SAVINGS	kvp	600	j@j.com	jyothi	AB1234	9550881191
2	51890747	ACTIVE	SAVINGS	ndd	400	j@p.com	priya	PP1234	95891191
3	51894747	ACTIVE	SAVINGS	kvp	900	j@j.com	sai	AB1234	9550881191
4	51890747	ACTIVE	SAVINGS	ndd	900	j@p.com	raj	PP1234	95891191

```
4 rows in set (0.00 sec)
```

Output of Deposit:

Enter Account Number:

Enter Amount to be Transferred:

Successfully deposited to the Account.

[deposit](#)

Database Output:

accountId	aadharCard	accStatus	accType	address	balance	email	name	panCard	phone
1	51894747	ACTIVE	SAVINGS	kvp	600	j@j.com	jyothi	AB1234	9550881191
2	51890747	ACTIVE	SAVINGS	ndd	400	j@p.com	priya	PP1234	95891191
3	51894747	ACTIVE	SAVINGS	kvp	900	j@j.com	sai	AB1234	9550881191
4	51890747	ACTIVE	SAVINGS	ndd	700	j@p.com	raj	PP1234	95891191

4 rows in set (0.00 sec)

accountId	aadharCard	accStatus	accType	address	balance	email	name	panCard	phone
1	51894747	ACTIVE	SAVINGS	kvp	600	j@j.com	jyothi	AB1234	9550881191
2	51890747	ACTIVE	SAVINGS	ndd	400	j@p.com	priya	PP1234	95891191
3	51894747	ACTIVE	SAVINGS	kvp	900	j@j.com	sai	AB1234	9550881191
4	51890747	ACTIVE	SAVINGS	ndd	900	j@p.com	raj	PP1234	95891191

4 rows in set (0.01 sec)

Output of Withdraw:

The image shows two screenshots of a web browser at the URL `http://localhost:9000/bankapp2/withdraw`.

The first screenshot shows the withdrawal form with the following fields and values:

- Enter Account Number:
- Enter Amount to be Withdrawn:
- A button labeled "withdrw amount" (note the typo).

The second screenshot shows the result of the transaction:

Successfully withdrawn from the Account.
[withdraw](#)

Database Output:

```
mysql> select * from acc_table;
```

accountId	aadharCard	accStatus	accType	address	balance	email	name	panCard	phone
1	51894747	ACTIVE	SAVINGS	kvp	600	j@j.com	jyothi	AB1234	9550881191
2	51890747	ACTIVE	SAVINGS	ndd	400	j@p.com	priya	PP1234	95891191
3	51894747	ACTIVE	SAVINGS	kvp	900	j@j.com	sai	AB1234	9550881191
4	51890747	ACTIVE	SAVINGS	ndd	900	j@p.com	raj	PP1234	95891191

4 rows in set (0.00 sec)


```
mysql> select * from acc_table;
```

accountId	aadharCard	accStatus	accType	address	balance	email	name	panCard	phone
1	51894747	ACTIVE	SAVINGS	kvp	600	j@j.com	jyothi	AB1234	9550881191
2	51890747	ACTIVE	SAVINGS	ndd	400	j@p.com	priya	PP1234	95891191
3	51894747	ACTIVE	SAVINGS	kvp	900	j@j.com	sai	AB1234	9550881191
4	51890747	ACTIVE	SAVINGS	ndd	700	j@p.com	raj	PP1234	95891191

4 rows in set (0.00 sec)

Regards

Kondepati Jyothi Priya

SAP ID : 51894747