

BANK APPLICATION

The Bank Application has three users:

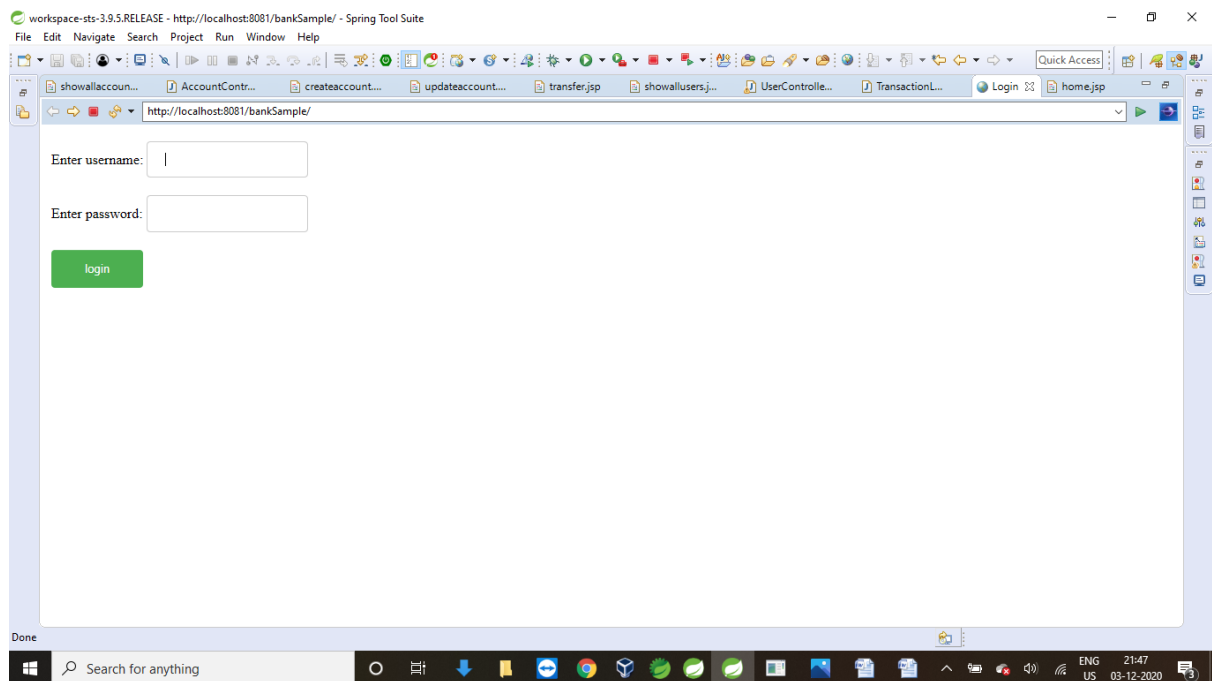
- 1) Admin.
- 2) Manager.

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 an account and delete an account.
- 2) **Manager:** Manager is also a user who has limited actions. The actions include update account, Transfer fund that required approval.

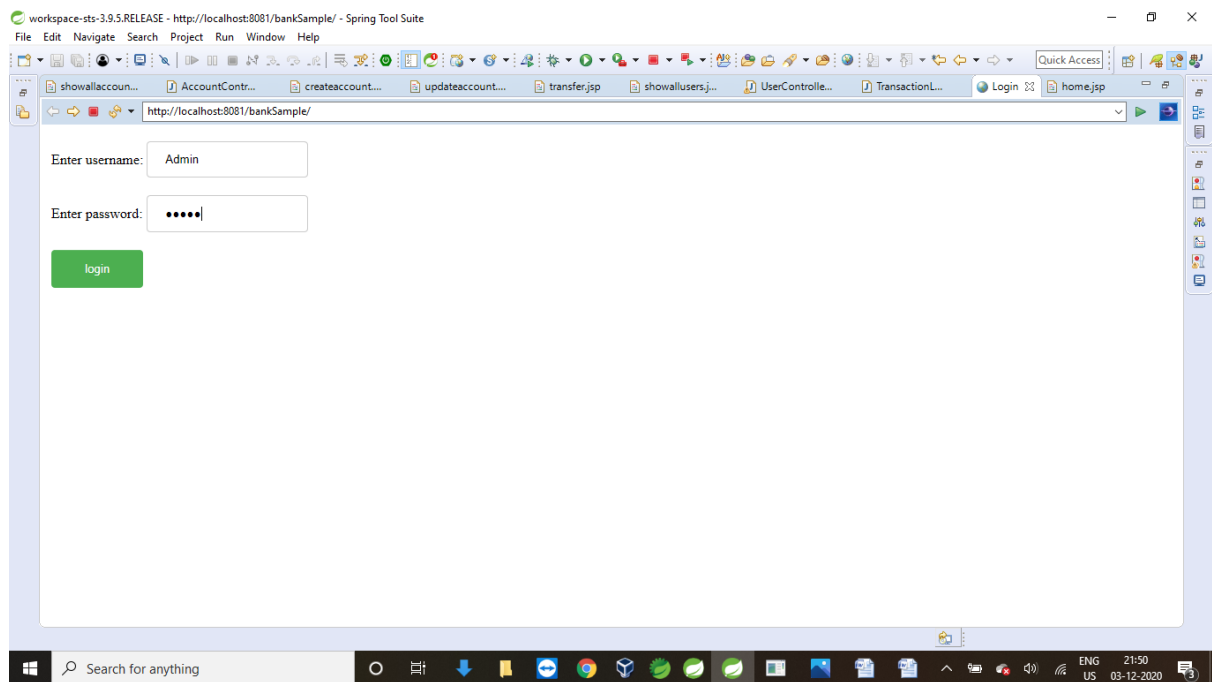
Actions Performed:

- 1) **Login:** This is used to login for particular person. If login fails he/she will be redirected to home page.

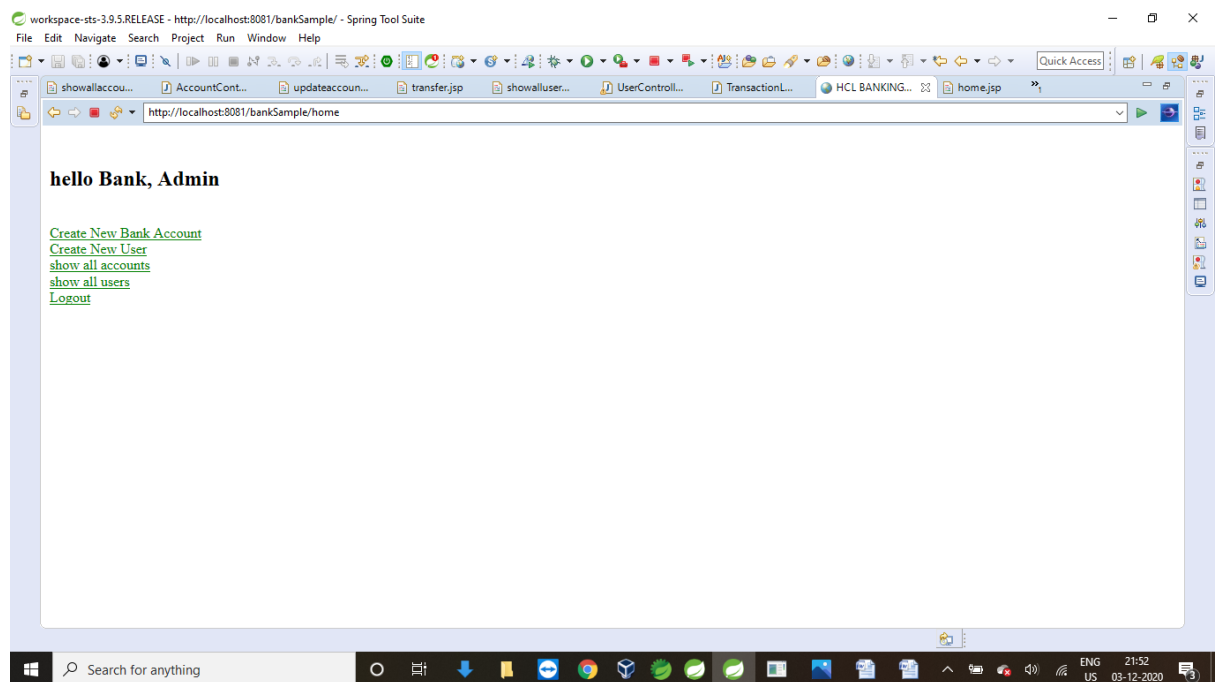


This is the first step. Here the users like Admin, Manager can login in to this Bank Application if the user has Account or else user has to create a new account.

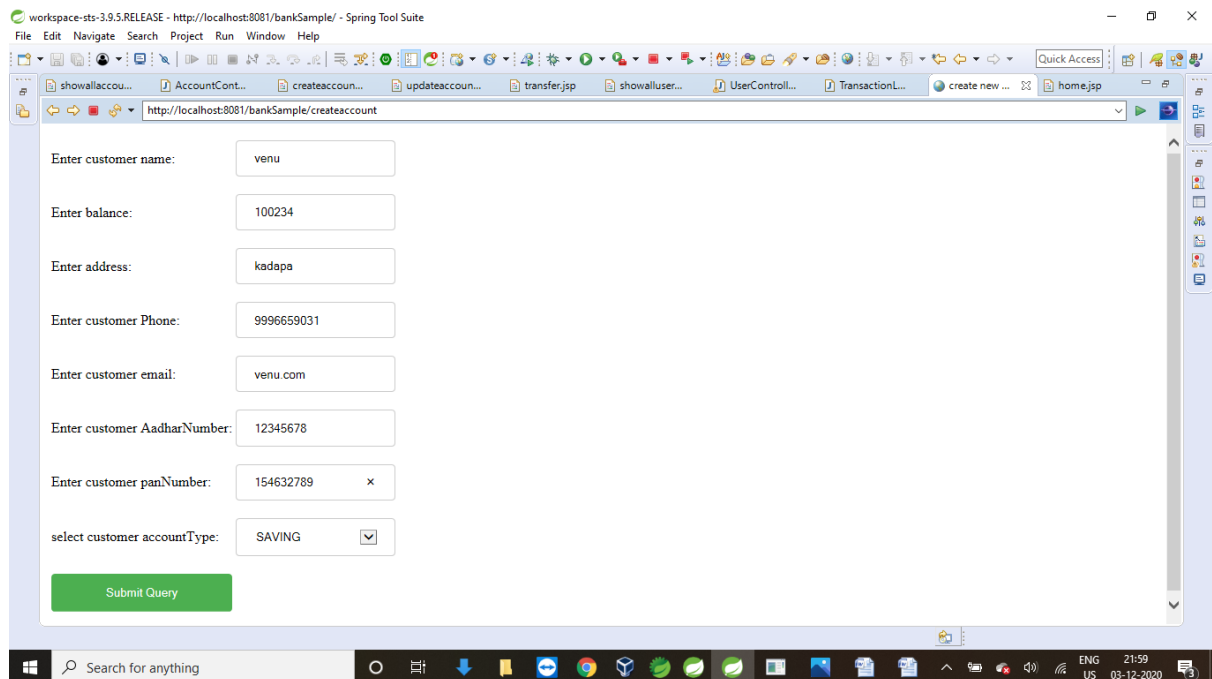
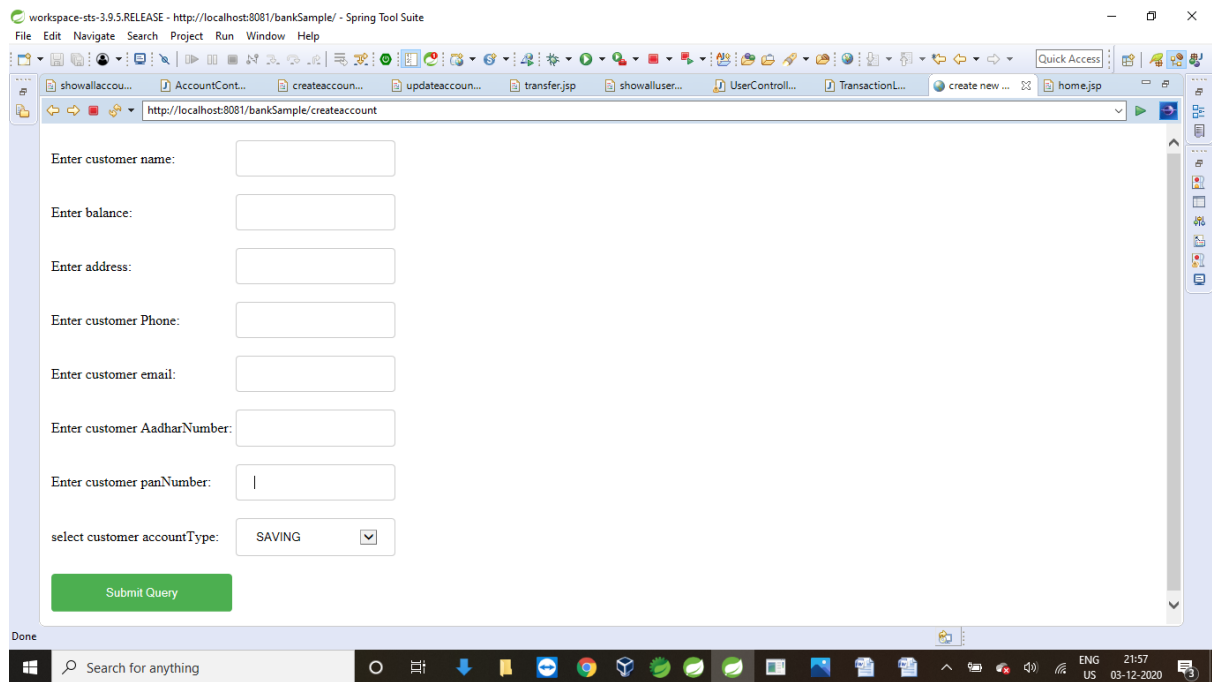
➤ **Admin Login:** Admin can login if he/she has account in Bank Application.



Admin can do operations like Create new account, New add user, Show all accounts, Show all users,logout.



Create New Bank Account: It is similar to add user but it takes an extra input called user type which indicates whether the user is an admin, manager.



2) ShowAllAccounts: Show all accounts is used to display all the accounts in the accounts table.

Here we can see all the account details of users.

workspace-sts-3.9.5.RELEASE - http://localhost:8081/bankSample/ - Spring Tool Suite

File Edit Navigate Search Project Run Window Help

showallaccou... AccountCont... updateaccoun... transfer.jsp showalluser... UserControl... TransactionL... SHOW ALL ACC... home.jsp

http://localhost:8081/bankSample/showallaccounts?accountType=SAVING&accountType=CURRENT

Name	Balance	Address	Phone	Email	Aadhar Card Number	PAN Number	Delete Account	Update Account
divya	5600.0	bang	5436789123	abc@.com	9876789045	sfgecg123	delete account	update account
pallavi	10000.0	bang	1234789123	def@.com	12345789045	svcecg123	delete account	update account
dady	6000.0	sdad	21356746	asd	454671	215465465	delete account	update account
pransanthi	8000.0	bang	12345678989	pra@.com	1234564875	1234875	delete account	update account
viji	9000.0	noida	998654123	vij@.com	15488632	14578963	delete account	update account
pallavi	10000.0	bang	4567893214	div@.com	123456789	123456879	delete account	update account
faa	10000.0	delhi	546789315	fi@.com	7584963245	5964876213	delete account	update account
gaa	7000.0	lkjh	5879462	div.com	54783129	458967123	delete account	update account
daa	6000.0	dafs	154976	hds.com	45678219	54689721	delete account	update account
Divya	1000.0	kadapa	9492516460	dic.com	154623879	5478963215	delete account	update account
							delete account	update account
pall	2000.0	del	56493234321	dic.com	1547963544	456879212	delete account	update account
zoo	12564.0	delhi	ghfd	asdf	678451236	895632	delete account	update account
venu	100234.0	kadapa	9996659031	venu.com	12345678	154632789	delete account	update account

Done

Search for anything

ENG US 03-12-2020

3) **AddUser:** This action allows us to add user. The inputs are username, password, user type, address, phone number, email, aadhar card and pan card.

Here we can add a new user for Admin, Manager.

workspace-sts-3.9.5.RELEASE - http://localhost:8081/bankSample/ - Spring Tool Suite

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Project Explorer

- model-config.xml
- validation.properties
- web-config.xml
- Libraries
- JavaScript Resources
- Referenced Libraries
- build
- WebContent
 - META-INF
 - WEB-INF
 - lib
 - views
 - 404.jsp
 - accountNotFound.jsp
 - adduser.jsp
 - createaccount.jsp
 - dataAccessExceptionPage.jsp
 - deposit.jsp
 - home.jsp
 - login.jsp
 - logout.jsp
 - showallaccounts.jsp
 - showallusers.jsp
 - success.jsp
 - transfer.jsp
 - updateaccount.jsp
 - withdraw.jsp
- model-config.xml
- web-config.xml
- web.xml
- bookapp
- bookstore

showallaccou... AccountCont... showalluser... User Add home.jsp adduser.jsp

http://localhost:8081/bankSample/adduser

Enter username: venu

Enter password:

Enter userType: Admin

Enter address: kadapa

Enter phone: 9996659031

Enter email: venu@.com

Add User

Search for anything

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workspace-sts-3.9.5.RELEASE - http://localhost:8081/bankSample/ - Spring Tool Suite

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 - updateaccount.jsp
 - withdraw.jsp
- bookapp
- bookstore

showallaccou... AccountCont... showalluser... UserControll... SHOW ALL USERS home.jsp adduser.jsp

http://localhost:8081/bankSample/showallusers?usertype=Admin&usertype=Manager&usertype=Clerk

show all users

[Home](#) [Logout](#)

Username	User Role	Address	Phone	Email	Delete user	Update user
admin	Admin	noida	87945623	admin@.com	delete user	update user
manager	Manager	delhi	4568751863	man@.com	delete user	update user
foo	Admin	delhi	548976231	gvh@gmail.com	delete user	update user
divya	Manager	delhi	6309743045	div@.com	delete user	update user
pallavi	Admin	bang	12469872	pal.com	delete user	update user
venu	Admin	kadapa	9996659031	venu@.com	delete user	update user

Done

Search for anything

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- **Manager Login:** Manager can login if he/she has account in Bank Application.

workspace-sts-3.9.5.RELEASE - http://localhost:8081/bankSample/ - Spring Tool Suite

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 - withdraw.jsp
- bookapp
- bookstore

showallaccou... AccountCont... showalluser... UserControll... TransactionL... Login home.jsp adduser.jsp

http://localhost:8081/bankSample/

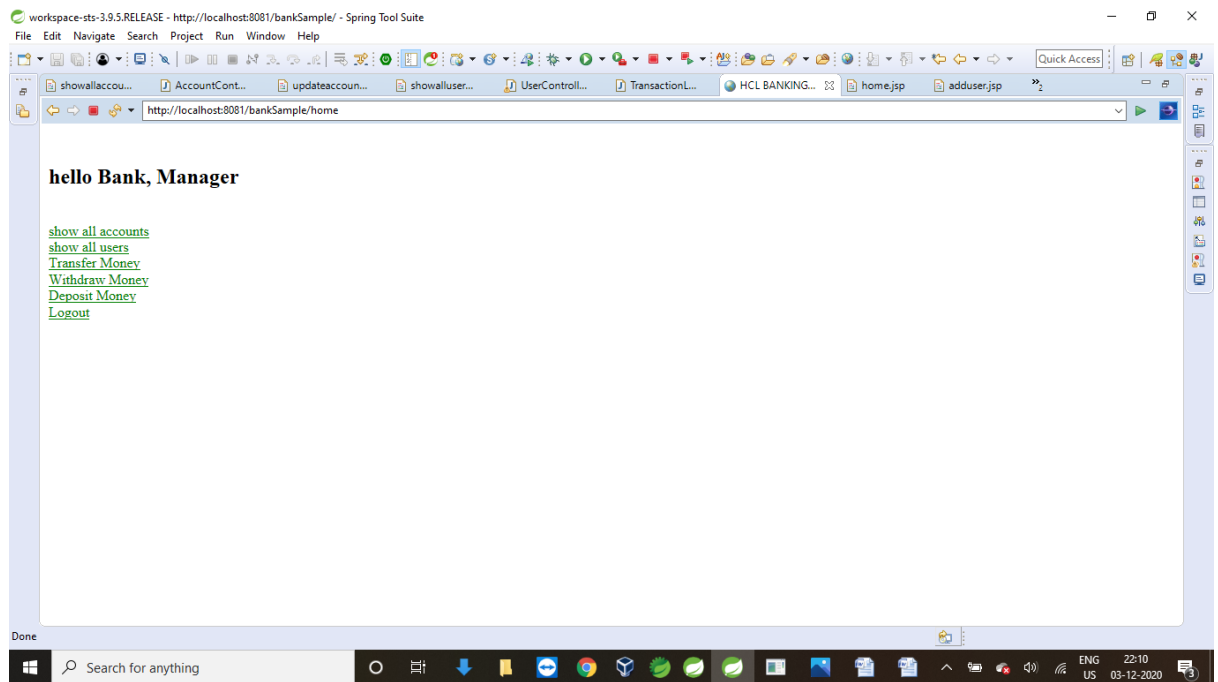
Enter username:

Enter password:

Done

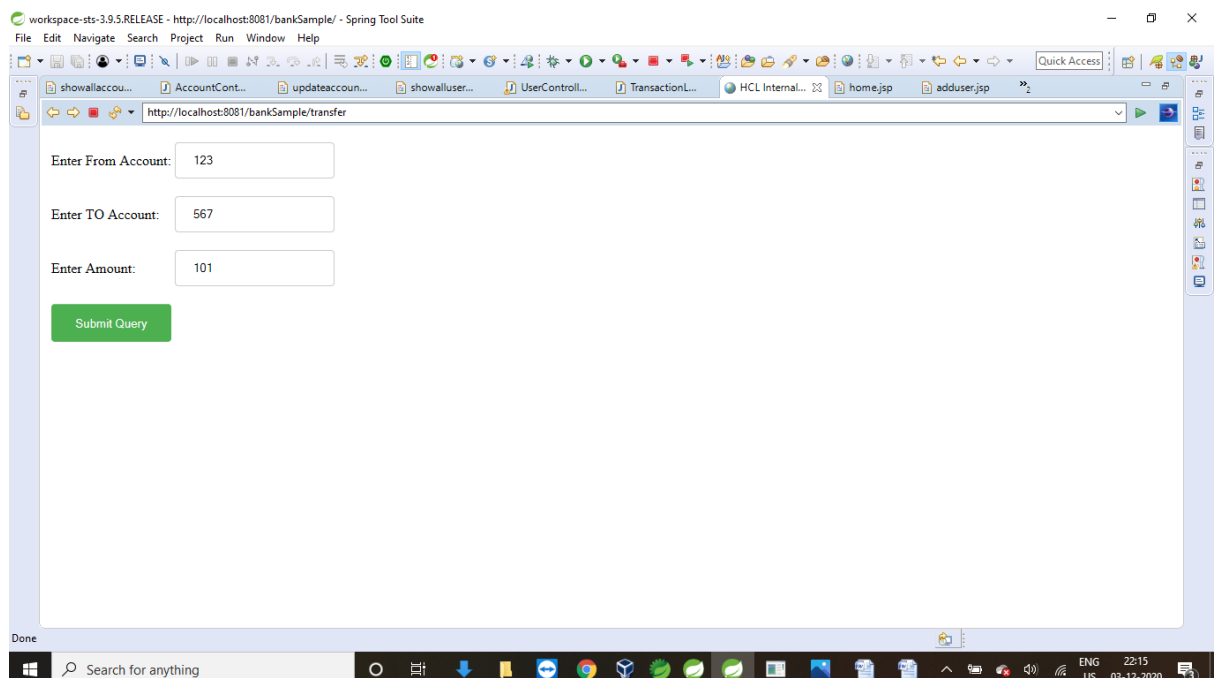
Search for anything

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Manager can do operations like Show all accounts, Show all users, Transfer Money, Withdraw Money, Deposit Money.

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.



```
C:\Program Files (x86)\MySQL\MySQL Server 5.1\bin\mysql.exe

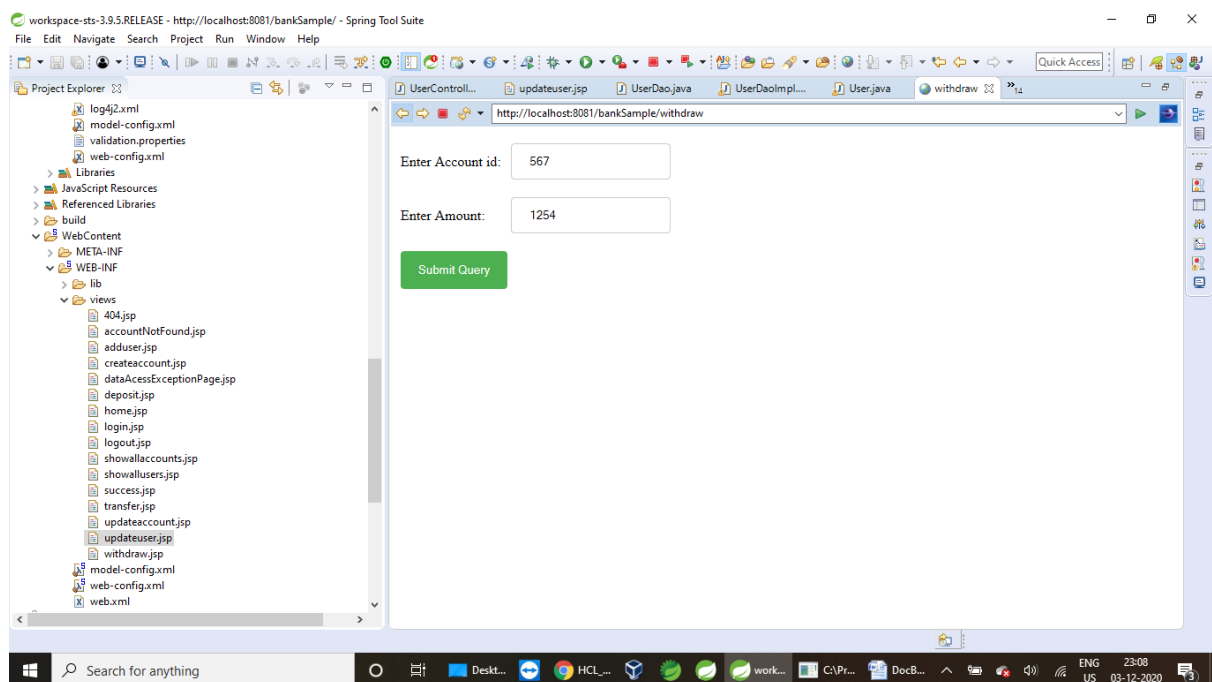
mysql> select *from account_table;

+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| accountId | AadharNumber | accountType | address | balance | email | name | panNumber | phone | status |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 567 | 1234567890123 | SAVING | bang | 5500 | abcd.com | divya | sfgecg123 | 5436789123 | NULL | |
| 567 | 1234567890123 | SAVING | bang | 10100 | defg.com | pallavi | svcecg123 | 1234789123 | NULL |
| 568 | 45678901234 | SAVING | sead | 6000 | asd | dady | 215465465 | 21156746 | 0 |
| 568 | 1234567890123 | SAVING | bang | 9000 | prab.com | prasantini | 1214875 | 1234567890123 | 0 |
| 578 | 15488832 | SAVING | noida | 9000 | vijg.com | vijl | 14578963 | 998654123 | 0 |
| 571 | 1234567890123 | SAVING | bang | 10000 | diwg.com | pallavi | 123456789 | 4567891214 | 0 |
| 571 | 7890123456789 | SAVING | delhi | 10000 | fih.com | fas | 5864876213 | 5467891215 | 0 |
| 575 | 54783129 | SAVING | lkjh | 7000 | div.com | gas | 458967123 | 5879462 | 0 |
| 576 | 45678901234 | SAVING | dars | 6000 | hds.com | das | 54889721 | 1348978 | 0 |
| 577 | 154621879 | SAVING | kadapa | 1000 | dic.com | divya | 5478963115 | 5492516468 | 0 |
| 588 | | SAVING | NULL | NULL | NULL | | | | | 0 |
| 588 | 154798364 | SAVING | del | 2000 | dic.com | pall | 458879212 | 58483254321 | 0 |
| 587 | 678451236 | SAVING | delhi | 12564 | asdf | zom | 895612 | ghfd | 0 |
| 588 | 12345678 | SAVING | kadapa | 100234 | venu.com | venu | 154632789 | 9996659831 | 0 |

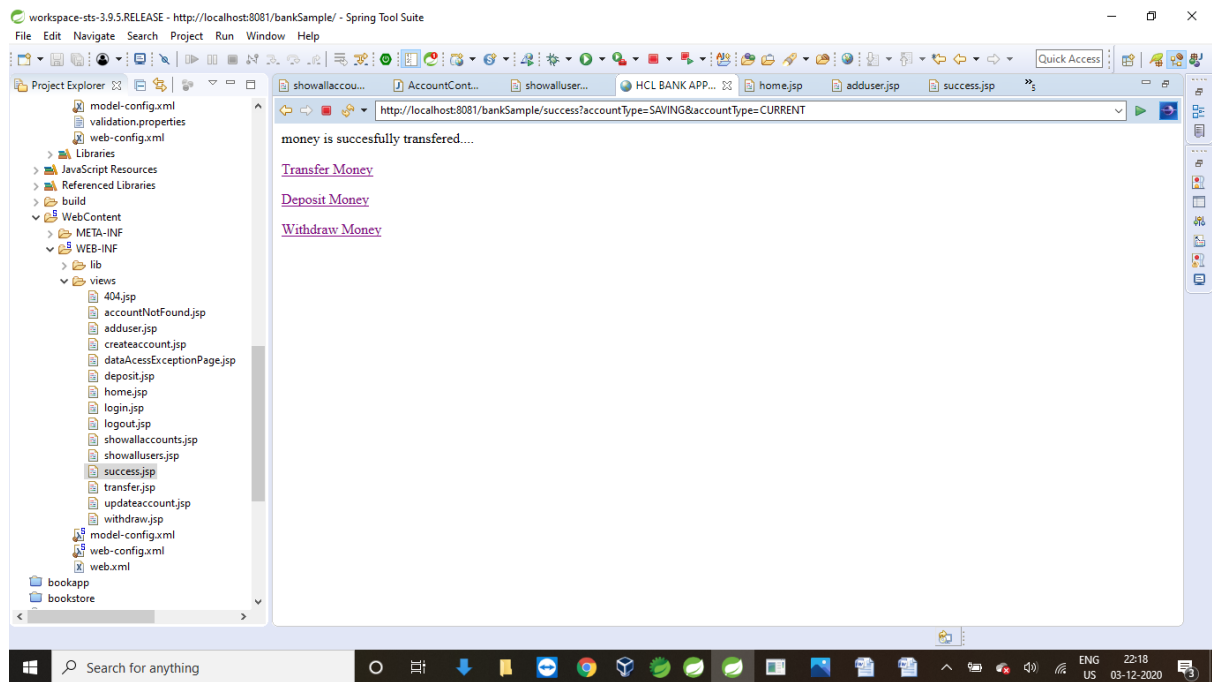
18 rows in set (0.00 sec)

mysql>
```

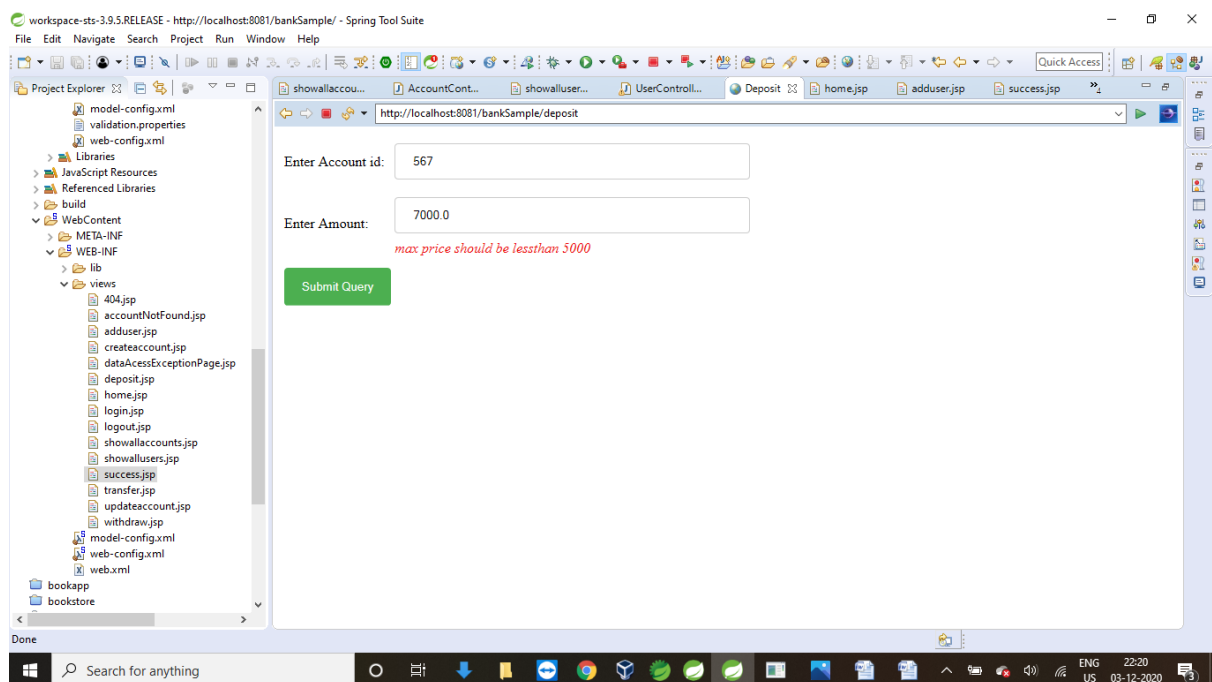
Withdraw: This action allows the user to withdraw money from his account. It takes two parameters like account number and amount to withdraw.



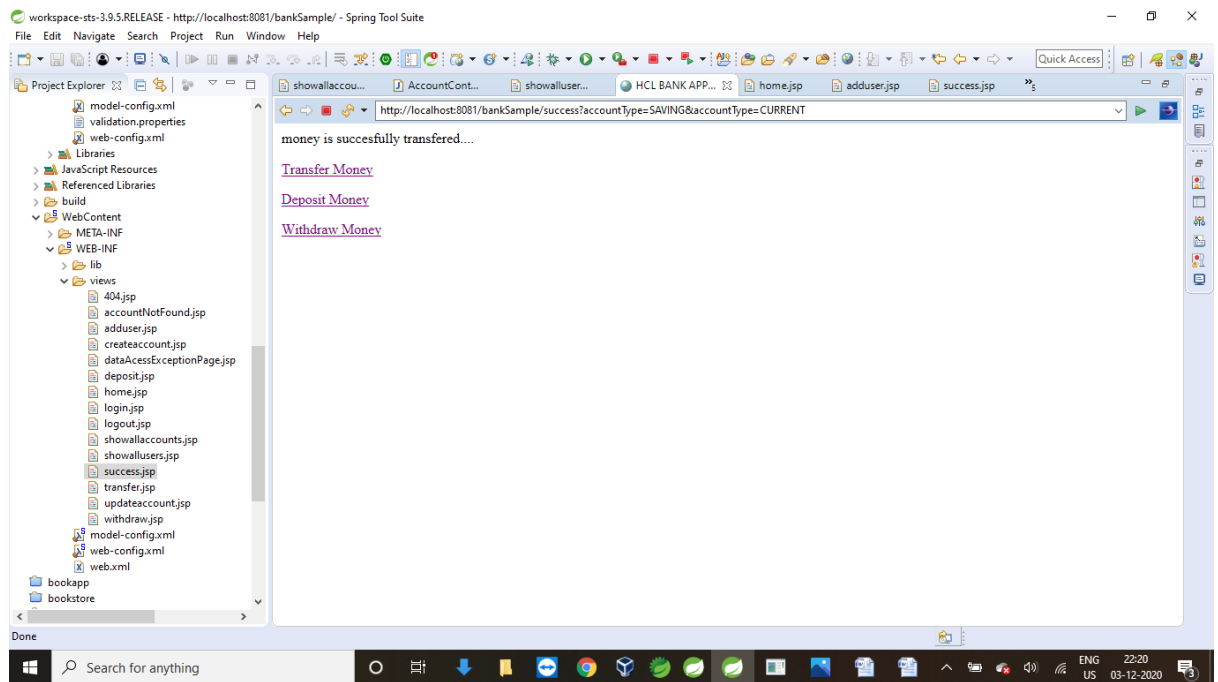
Once the money is Successfully Withdrawn



Deposit: This action allows us to deposit money in user account. It takes parameters like account number and amount to be deposited.



Once the money is successfully deposited



4) 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.

