HCL Bank Web Application

Users:

1 Admin

- Can add a new account and new administration user
- .Can view all accounts and users.
- Can update an account or delete an account.

2.Manager

- Can transfer, deposit and withdraw money.
- Can view all accounts.

3.Clerk

• Can view only transaction log information.

Actions:

- 1.**Login :**This is used to login for a particular person. It takes parameters like username and password. If login fails he/she will be redirected to the home page.
- **2.Add Account:** This is used to create a new bank account by the admin. The inputs are name, address, phone number, email, account type, balance, aadhar card and pan card.
- 3.**Add User:** This is used to create a new administrative user account by the admin. The inputs are username, password, address, phone number, email, user type.
- 4. **ShowAllAccounts:** This displays all the accounts in the database.
- 5. **Update Account:** This is used to update details of the account like phone, email, address.
- 6.**Delete Account:** This is used to suspend or delete the account from the database.
- 7.**Transfer:** This is used to transfer money from one account to another account. The inputs are from account id, to account id and the amount to be transferred.
- 8.**Deposite:** This is used to deposit money into an account. The inputs are to account id and the amount to be deposited.

- 9. **Withdraw:** This is used to withdraw money from an account. The inputs are from account id and the amount to be transferred.
- 10.**Transaction Log:** This is used to display the transaction details of the accounts.

Configuration: Java Configuration is used instead of xml.

• Configuration Files: Model Config, Web Config, Web Initializer.

DAO Layer:

- **Entities:** Account, TransactionLog, User, Account Type, Account Status, User Type, Transaction Type.
- Interfaces: AccountDao, TransactionLogDao, UserDao.
- Exceptions: Account not found, user not found.

Service Layer:

- Interfaces: AccountService, TransactionLog Service, User Service.
- Aspects: Loggable(custom annotation), Logging Aspect.

Web Layer:

- Controller: Account Controller, Transaction Controller, User Controller, Login Controller.
- Form Beans: Account Bean, User Bean, Login Bean, Transfer Bean, Withdraw Bean, Deposit Bean

Resources: Database properties, log4j, Validation Properties.

Views: Add account, add user, all accounts, update account, home, login. logout, deposit, transfer, success, txlog, 404, db error.

CSS Resources: Form, table.

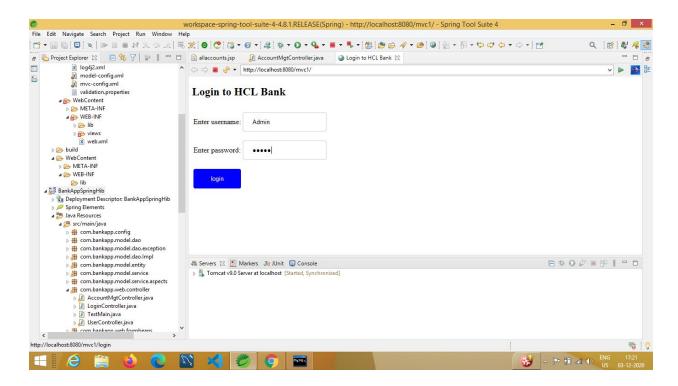
Validations:

Account Number: Account number cannot be empty.

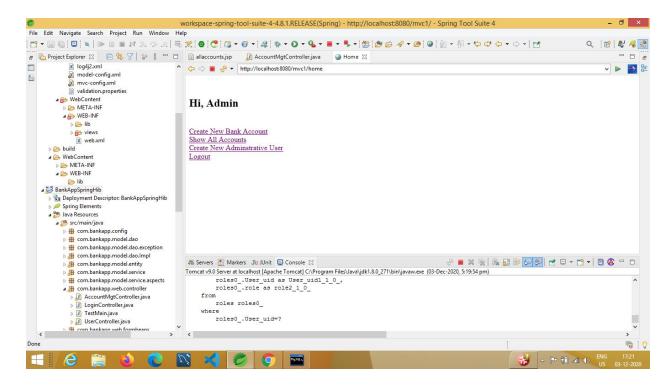
Amount: Amount cannot exceed the limit while transfer and deposit actions and cannot be less than minimum balance while withdrawal action.

Type Mismatch: The entry should match with the type of field i.e numeric or string.

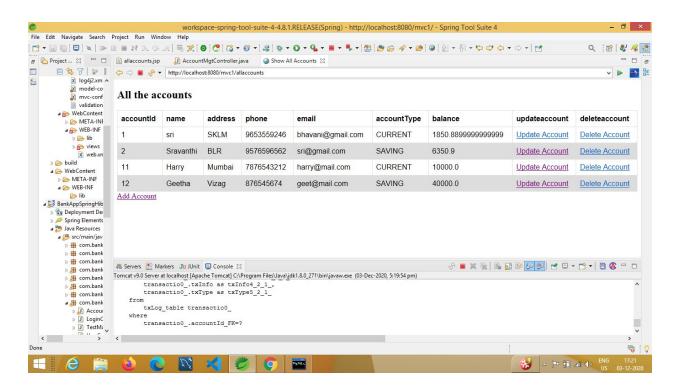
Login Page:



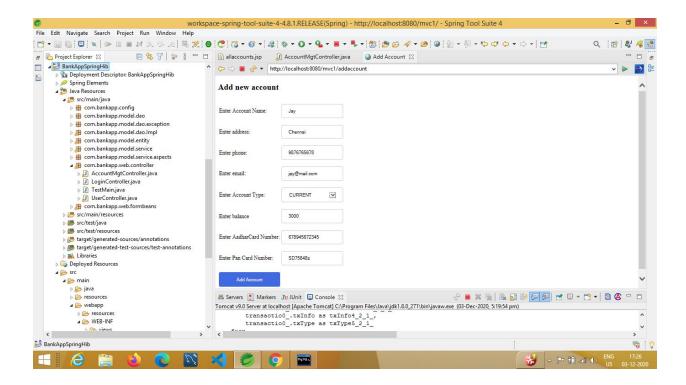
Admin Page:



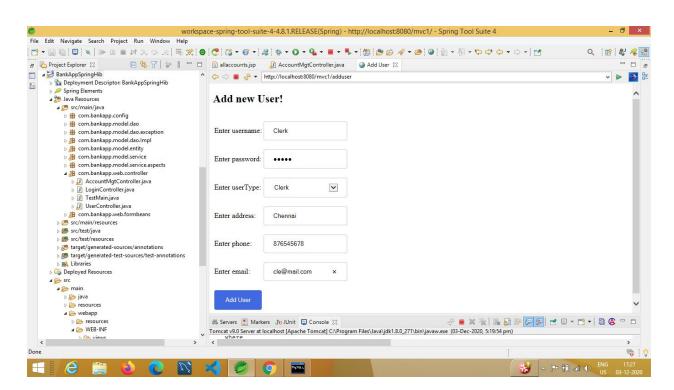
All Accounts:



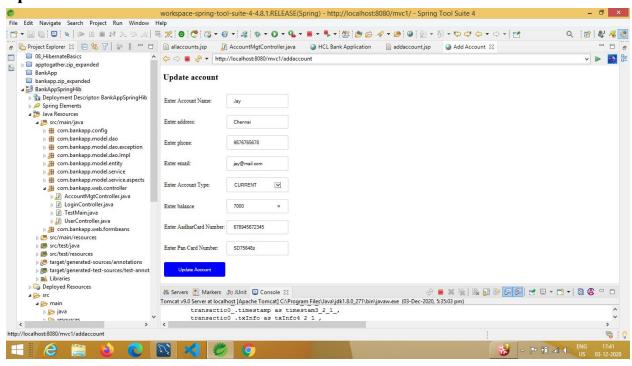
Add new account:



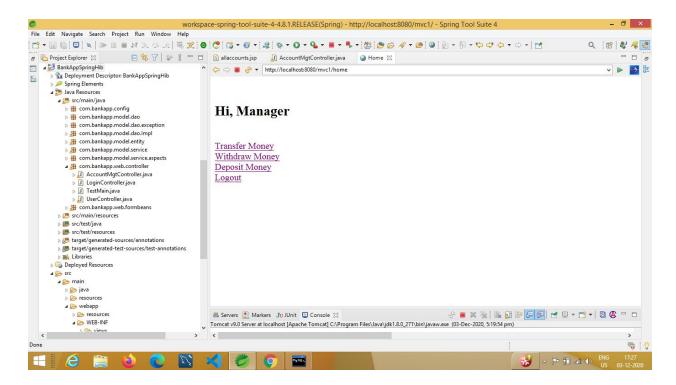
Add new user:



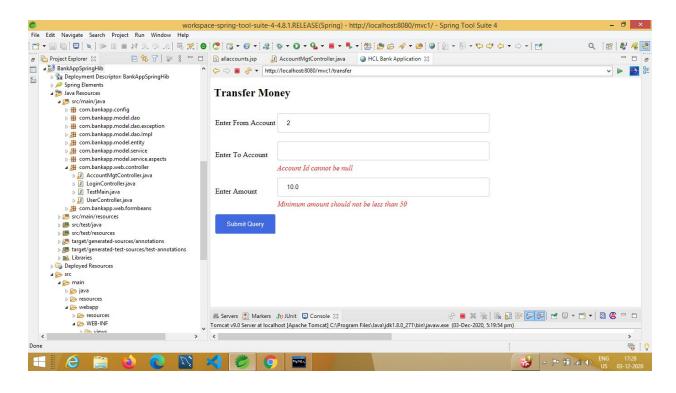
Update Account:



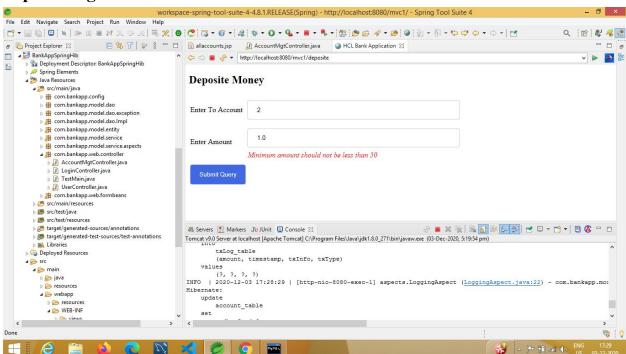
Manager Page:



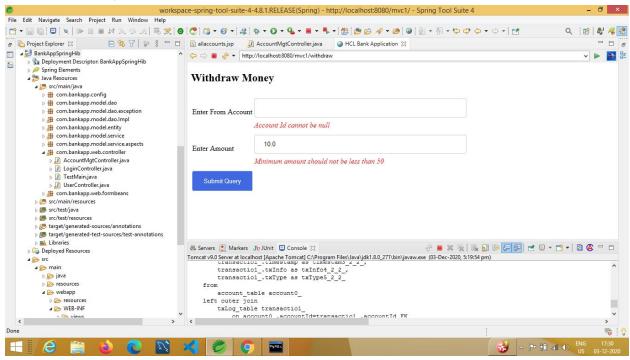
Transfer Money:



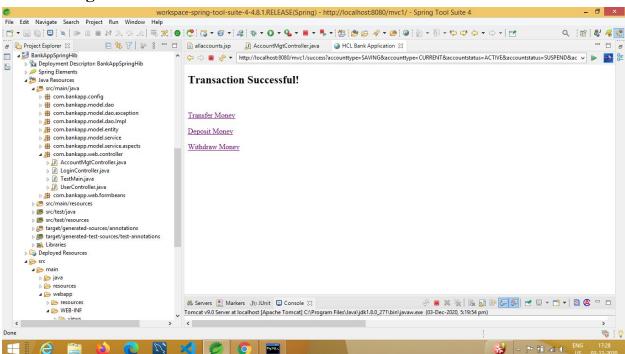
Deposit Page:



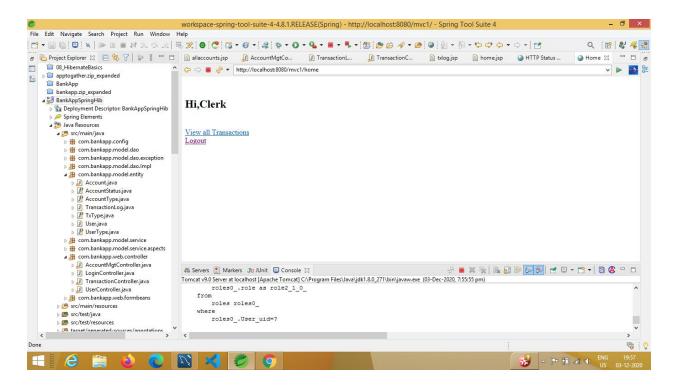
Withdraw Page:



Success Page:



Clerk Page:



Transactions:

