**Models**

User :

String - username,

String - password,

boolean - active

AccountHolder:

long Id,

String firstName,

String middleName,

String lastName,

String SSN

BankAccount - abstract class :

long - Id,

double - balance,

double - interestRate,

long - accountNumber,

double - futureValue,

int - term,

Date - date,

Savings Account - extends BankAccount

Checking Accounts - extends BankAccount

Personal Checkings Account - extends BankAccount

DBA - Checking Account - extends BankAccount

Certificate of Deposit Account (CD) - extends BankAccount

CD Offering:

long - Id,

int - term,

double - interestRate

Rollover IRA - extends BankAccount

Roth IRA - extends BankAccount

Regular IRA - extends BankAccount

**Transaction**

Transaction - abstract class :

BankAccount - sourceAccount,

BankAccount - targetAccount,

double - Amount

Date - transactionDate,

String - reason,

boolean - isProcessed

Deposit Transaction - extends Transaction

Transfer Transaction - extends Transaction

Withdraw Transaction - extends Transaction

**Controllers**

Auth Controller

Post - login “/login”

Post - logout “/logout”

Post - create user “/createUser”

AccountHolder Controller

Post - addAccountHolder “/AccountHolders” // only 1

Get - getAccountHolder “/AccountHolders”

Post - addSavingsAccount “/AccountHolder/SavingsAccounts” // only 1 saving

Get - getSavingsAccount “/AccountHolder/SavingsAccounts”

Post - addCheckingAccount “/AccountHolder/CheckingAccounts” // only 1 checking

Get - getCheckingAccount “/AccountHolder/CheckingAccounts”

Post - addPersonalCheckingsAccount “/AccountHolder/PersonalChecking” // only 1

Get - getPersonalCheckingsAccount “/AccountHolder/PersonalChecking”

Post - addDBACheckingsAccount “/AccountHolder/{id}/DBA” // up to 3

Get - getDBACheckingsAccount “/AccountHolder/{id}/DBA”

Post - addCDAccount "/AccountHolders/{id}/CDAccounts" // many accounts

Get - getCDAccount "/AccountHolders/{id}/CDAccounts"

Post - addRolloverIRA “/AccountHolder/Rollover” // only 1

Get - getRolloverIRA “/AccountHolder/Rollover”

Post - addRothIRA “/AccountHolder/Roth” // only 1

Get - getRothIRA “/AccountHolder/Roth”

Post - addRegularIRA “/AccountHolder/Regular” // only 1

Get - getRegularIRA “/AccountHolder/Regular”

CDOffering Controller

Post - addCDOffering “/CDOfferings”

Get - getCDOffering “/CDOfferings”

Delete Controller

Post - deleteAccount “/DeleteAccount”

Post - deleteSavingsAccount “/DeleteSavingsAccount”

Post - deleteCheckingAccount “/DeleteCheckingAccount”

Post - deletePersonalCheckingsAccount /”DeletePersonal”

Post - deleteDBACheckingsAccount “/{id}/”DeleteDBA”

Post - deleteCDAccount “/{id}/DeleteCDAccount”

Post - deleteRolloverIRA “/DeleteRollover”

Post - deleteRegularIRA “/DeleteRegular”

Post - deleteRothIRA “/DeleteRoth”