# Base Account Class

## Protected

string username | The account’s username  
string password | The account’s password  
int ID | The account’s unique banking ID  
double balance | The account’s balance  
vector<Transaction> transactions | The account’s transaction history

## Public

Virtual Void deposit | Deposit method  
Virtual Void withdraw | Withdraw method  
Virtual Void displayTransactionHistory | Transaction history method  
Virtual Void authenticate | Authentication method

# Checking Account (Child of Base Account)

## Private

double overdraftLimit | The account’s overdraft limit

## Public

void deposit | Deposit method, unchanged  
void withdraw | Withdraw method, has overdraft functionality  
void displayTransactionHistory | Transaction history, unchanged  
bool authenticate | Authentication, unchanged

# Savings Account (Child of Base Account)

## Private

double interestRate | The account’s interest rate

## Public

void deposit | Deposit method, unchanged  
void withdraw | Withdraw method, unchanged  
void displayTransactionHistory | Transaction history, unchanged  
bool authenticate | Authentication, unchanged