ROPOBANK_PORTFOLIO

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

AccountSettings . . . . . ??
IAccount . . . . . ??
  BaseAccount . . . . . ??
    CheckingAccount . . . . . ??
    SavingsAccount . . . . . ??
Portfolio . . . . . ??
TransferRecord . . . . . ??
TxRecord . . . . . ??

Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

AccountSettings
: Hold Account settings for specific account . . . . . ??

BaseAccount
: A base class that shares common data and default behaviors for all account types . . . . . ??

CheckingAccount
: Represents a checking account that supports monthly fees and specific settings . . . . . ??

IAccount
: Interface for all account types . . . . . ??

Portfolio
: Manages a collection of financial accounts and provides operations for transactions, transfers, and exposure calculations . . . . . ??

SavingsAccount
: Represents a savings account that accrues interest . . . . . ??

TransferRecord
: Stores detailed information about a fund transfer transaction . . . . . ??

TxRecord
: Represents a single transaction record . . . . . ??

Chapter 3

File Index

3.1 File List

Here is a list of all files with brief descriptions:

cal.cpp . . . . . ??
cal.hpp . . . . . ??
main.cpp . . . . . ??
portfolio.cpp . . . . . ??
portfolio.hpp . . . . . ??

Chapter 4

Class Documentation

4.1 AccountSettings Struct Reference

Hold Account settings for specific account.

`#include <portfolio.hpp>`

Public Attributes

- AccountType type
- double apr
- int64_t fee_flat_cents

4.1.1 Detailed Description

Hold Account settings for specific account.

4.1.2 Member Data Documentation

4.1.2.1 apr

```
double AccountSettings::apr
```

4.1.2.2 fee_flat_cents

```
int64_t AccountSettings::fee_flat_cents
```

4.1.2.3 type

```
AccountType AccountSettings::type
```

The documentation for this struct was generated from the following file:

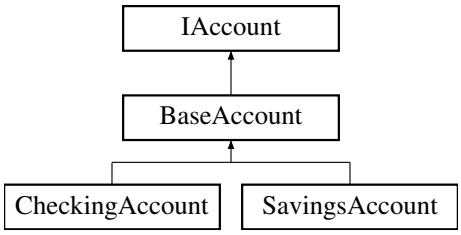
- portfolio.hpp

4.2 BaseAccount Class Reference

A base class that shares common data and default behaviors for all account types.

`#include <portfolio.hpp>`

Inheritance diagram for BaseAccount:



Public Member Functions

- BaseAccount (const string &id, const AccountSettings &settings, long long opening_balance=0)
  Constructor of the BaseAccount.
- const string & id () const override
- long long balance_cents () const override
- const vector< TxRecord > & audit () const override
- void deposit (int64_t amount_cents, int64_t ts, string note=nullptr) override
  Deposits into the account.
- void withdrawal (int64_t amount_cents, int64_t ts, string note=nullptr) override
  Withdrawal from the account.
- void charge_fee (int64_t fee_cents, int64_t ts, string note=nullptr) override
  Apply fee to the account.
- void post_simple_interest (int days, int basis, int64_t ts, string note) override
  Post simple interest to account balance.
- void apply (const TxRecord &tx) override
  apply a transaction to the account

Public Member Functions inherited from IAccount

- virtual AccountType type () const =0
- virtual ~IAccount ()=default

Protected Member Functions

- void record (const TxRecord &tx)
  Records a new transaction in the audit trail.

Protected Attributes

- string id_
- AccountSettings settings_
- int64_t balance_cents_
- vector< TxRecord > audit_