

My Project

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Chapter 1

File Index

1.1 File List

Here is a list of all files with brief descriptions:

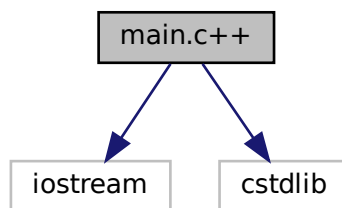
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Chapter 2

File Documentation

2.1 main.c++ File Reference

```
#include <iostream>
#include <cstdlib>
Include dependency graph for main.c++:
```



Functions

- void `show` ()
Displays the main menu options.
- void `process` (void(*show_ptr)())
Processes the user's choice and executes the corresponding actions.
- void `verify` (void(*func)(void(*)()))
Verifies the user's password before proceeding.
- int `main` (void)
The main entry point of the program.

Variables

- unsigned int `balance` = 1000
Current account balance.
- unsigned int `deposit` = 0
Amount to deposit.
- unsigned int `withdDraw` = 0
Amount to withdraw.
- unsigned int `real_password` = 1
The real password for verification.
- int `input_password` = 0
User's input password.
- unsigned `choice` = 0
User's menu choice.
- int `status` = 0
Status to continue or exit the process.

2.1.1 Function Documentation

2.1.1.1 `main()`

```
int main (  
    void )
```

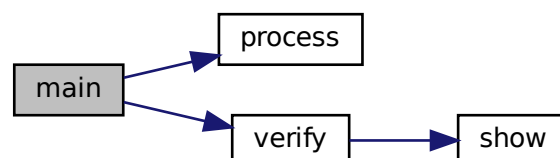
The main entry point of the program.

This function initiates the program by calling the 'verify' function.

Returns

int Returns 0 upon successful completion

Here is the call graph for this function:



2.1.1.2 process()

```
void process (
    void(*)() show_ptr )
```

Processes the user's choice and executes the corresponding actions.

This function is responsible for handling user input and performing actions such as checking balance, depositing money, withdrawing money, or exiting.

Parameters

| | |
|-----------------|----------------------------------|
| <i>show_ptr</i> | A pointer to the 'show' function |
|-----------------|----------------------------------|

< Display the main menu

< Pointer to the 'process' function

< Re-call process

< Update balance

< Re-call process

< Re-call process

< Update balance after withdrawal

< Re-call process

< Re-call process

< Re-call processHere is the caller graph for this function:

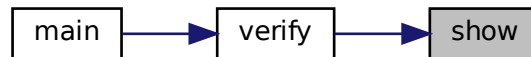


2.1.1.3 show()

```
void show ( )
```

Displays the main menu options.

This function prints out the available options for the user to select from. Here is the caller graph for this function:



2.1.1.4 verify()

```
void verify (
    void(*) (void(*) ()) func )
```

Verifies the user's password before proceeding.

This function prompts the user to enter a password and validates it against the stored real password. It allows up to 3 attempts before terminating the program.

Parameters

| | |
|-------------|-------------------------------------|
| <i>func</i> | A pointer to the 'process' function |
|-------------|-------------------------------------|

< Call the process function

< Re-call verificationHere is the call graph for this function:



Here is the caller graph for this function:



2.1.2 Variable Documentation

2.1.2.1 balance

```
unsigned int balance = 1000
```

Current account balance.

2.1.2.2 choice

```
unsigned choice = 0
```

User's menu choice.

2.1.2.3 deposit

```
unsigned int deposit = 0
```

Amount to deposit.

2.1.2.4 input_password

```
int input_password = 0
```

User's input password.

2.1.2.5 **real_password**

```
unsigned int real_password = 1
```

The real password for verification.

2.1.2.6 **status**

```
int status = 0
```

Status to continue or exit the process.

2.1.2.7 **withdDraw**

```
unsigned int withdDraw = 0
```

Amount to withdraw.

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