

Problem Set 7: C\$50 Finance

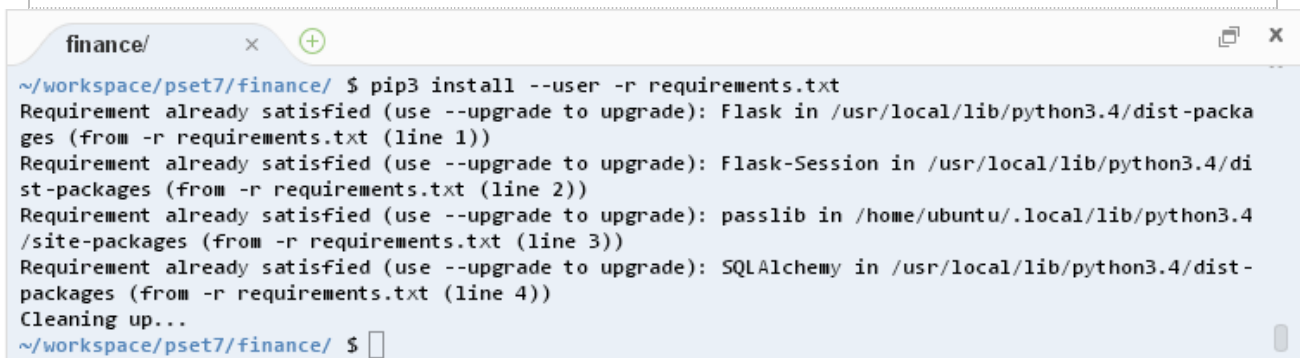
Problems

Implement [C\\$50 Finance](#) in `pset7/finance/`.

Running

1. Install this problem's dependencies (within `finance/`):

```
pip3 install --user -r requirements.txt
```

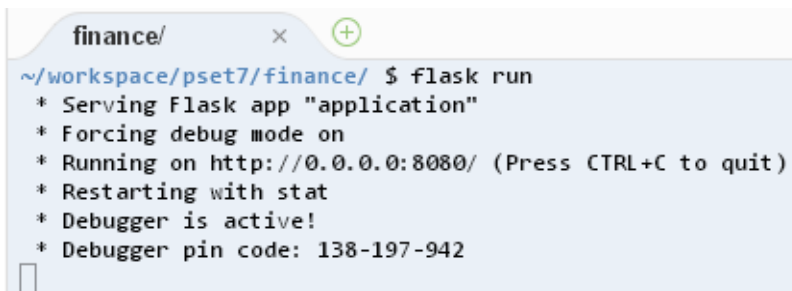


```
finance/ x +
~/workspace/pset7/finance/ $ pip3 install --user -r requirements.txt
Requirement already satisfied (use --upgrade to upgrade): Flask in /usr/local/lib/python3.4/dist-packages (from -r requirements.txt (line 1))
Requirement already satisfied (use --upgrade to upgrade): Flask-Session in /usr/local/lib/python3.4/dist-packages (from -r requirements.txt (line 2))
Requirement already satisfied (use --upgrade to upgrade): passlib in /home/ubuntu/.local/lib/python3.4/site-packages (from -r requirements.txt (line 3))
Requirement already satisfied (use --upgrade to upgrade): SQLAlchemy in /usr/local/lib/python3.4/dist-packages (from -r requirements.txt (line 4))
Cleaning up...
~/workspace/pset7/finance/ $
```

2. Start Flask's built-in web server (within `finance/`):

```
flask run
```

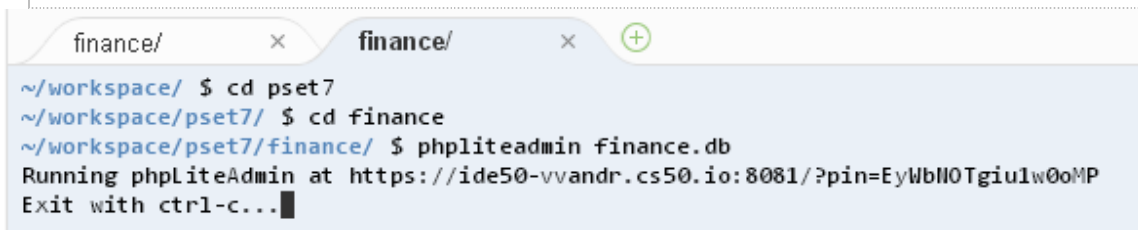
Select **CS50 IDE > Web Server** to see the distribution code in action. You won't be able to log in or register, though, just yet!



```
finance/ x +
~/workspace/pset7/finance/ $ flask run
* Serving Flask app "application"
* Forcing debug mode on
* Running on http://0.0.0.0:8080/ (Press CTRL+C to quit)
* Restarting with stat
* Debugger is active!
* Debugger pin code: 138-197-942
```

3. In another terminal window, start phpLiteAdmin (within `finance/`):

```
phpliteadmin finance.db
```



```
finance/ x finance/ x +
~/workspace/ $ cd pset7
~/workspace/pset7/ $ cd finance
~/workspace/pset7/finance/ $ phpliteadmin finance.db
Running phpliteAdmin at https://ide50-vvandr.cs50.io:8081/?pin=EyWbN0Tgiu1w0oMP
Exit with ctrl-c... █
```

← → ↻ https://ide50-vvandr.cs50.io:8081/phpliteadmin.php?login=true&password=EyWbNOTgiu1w0oMP

phpLiteAdmin
v1.9.7-dev

[Documentation](#) | [License](#) | [Project Site](#)

Change Database
[rw] [finance](#) (1)

[finance](#)
[Table] [histories](#)
[Table] [portfolio](#)
[Table] [users](#)
[Table] [users_stoks](#)

Logout

finance

Structure SQL Export Import Vacuum

Database name: finance
Path to database: /home/ubuntu/workspace/pset7/finance/finance.db
Size of database: 21 KB
Database last modified: 9:11am on June 4, 2017 (UTC)
SQLite version: 3.8.2
SQLite extension [?]: PDO
PHP version: 5.5.9-1ubuntu4.19
phpLiteAdmin version: 1.9.7-dev [There is a new version!](#)

Type [?]	Name	Action
Table	histories	Browse Structure SQL Search Insert Export Import Rename Empty Drop
Table	portfolio	Browse Structure SQL Search Insert Export Import Rename Empty Drop
Table	users	Browse Structure SQL Search Insert Export Import Rename Empty Drop
Table	users_stoks	Browse Structure SQL Search Insert Export Import Rename Empty Drop

4 Total

Create new table on database 'finance'
Name: Number of Fields: Go

Create new view on database 'finance'
Name: Select Statement [?]: C

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← → ↻ ide50-vvandr.cs50.io/register

C\$50 Finance Register Log In

Register

← → ↻ ide50-vvandr.cs50.io/register

C\$50 Finance Register Log In

Register

← → ↻ ide50-vvandr.cs50.io

C\$50 Finance Quote Buy Sell History Log Out

Symbol	Name	Shares	Price	TOTAL
CASH				\$10,000.00
				\$10,000.00

← → ↻ ide50-vvandr.cs50.io/quote

C\$50 Finance Quote Buy Sell History Log Out

Symbol

Quote

← → ↻ ide50-vvandr.cs50.io/quote

C\$50 Finance Quote Buy Sell History Log Out

nflx

Quote

← → ↻ ide50-vvandr.cs50.io/quote

C\$50 Finance Quote Buy Sell History Log Out

A share of Netflix, Inc. (NFLX) is \$165.18.

← → ↻ ide50-vvandr.cs50.io/quote

C\$50 Finance Quote Buy Sell History Log Out

goog

Quote

← → X ide50-vvandr.cs50.io/quote

C\$50 Finance Quote Buy Sell History Log Out

A share of Alphabet Inc. (GOOG) is \$975.6.

← → ↻ ide50-vvandr.cs50.io/quote

C\$50 Finance Quote Buy Sell History Log Out

ms

Quote

← → ↻ ide50-vvandr.cs50.io/quote

C\$50 Finance Quote Buy Sell History Log Out

A share of **Morgan** Stanley (MS) is \$42.52.

← → ↻ ide50-vvandr.cs50.io/buy

C\$50 FinanceQuoteBuySellHistoryLog Out

nflx

10

Buy

← → ↻ ide50-vvandr.cs50.io

C\$50 FinanceQuoteBuySellHistoryLog Out

Symbol	Name	Shares	Price	TOTAL
NFLX	Netflix, Inc.	10	\$165.18	
CASH				\$8,348.20
				\$10,000.00

← → ↻ ide50-vvandr.cs50.io/buy

C\$50 FinanceQuoteBuySellHistoryLog Out

goog

5

Buy

← → X ide50-vvandr.cs50.io

C\$50 FinanceQuoteBuySellHistoryLog Out

Symbol	Name	Shares	Price	TOTAL
NFLX	Netflix, Inc.	10	\$165.18	
GOOG	Alphabet Inc.	5	\$975.60	
CASH				\$3,470.20
				\$10,000.00

← → ↻ ide50-vvandr.cs50.io/buy

C\$50 FinanceQuoteBuySellHistoryLog Out

ms

2

Buy

← → X ide50-vvandr.cs50.io

C\$50 FinanceQuoteBuySellHistoryLog Out

Symbol	Name	Shares	Price	TOTAL
NFLX	Netflix, Inc.	10	\$165.18	
GOOG	Alphabet Inc.	5	\$975.60	
MS	Morgan Stanley	2	\$42.52	
CASH				\$3,385.16
				\$10,000.00

← → ↺ ide50-vvandr.cs50.io/sell

C\$50 FinanceQuoteBuySellHistoryLog Out

nflx

5

Sell

← → ↺ ide50-vvandr.cs50.io/sell

C\$50 FinanceQuoteBuySellHistoryLog Out

goog

2

Sell

← → X ide50-vvandr.cs50.io

C\$50 FinanceQuoteBuySellHistoryLog Out

Symbol	Name	Shares	Price	TOTAL
NFLX	Netflix, Inc.	5	\$165.18	
GOOG	Alphabet Inc.	3	\$975.60	
MS	Morgan Stanley	2	\$42.52	
CASH				\$6,162.26
				\$10,000.00

Symbol	Shares	Price	Transacted
NFLX	10	\$165.18	2017-06-04
GOOG	5	\$975.60	2017-06-04
MS	2	\$42.52	2017-06-04
NFLX	-5	\$165.18	2017-06-04
GOOG	-2	\$975.60	2017-06-04