

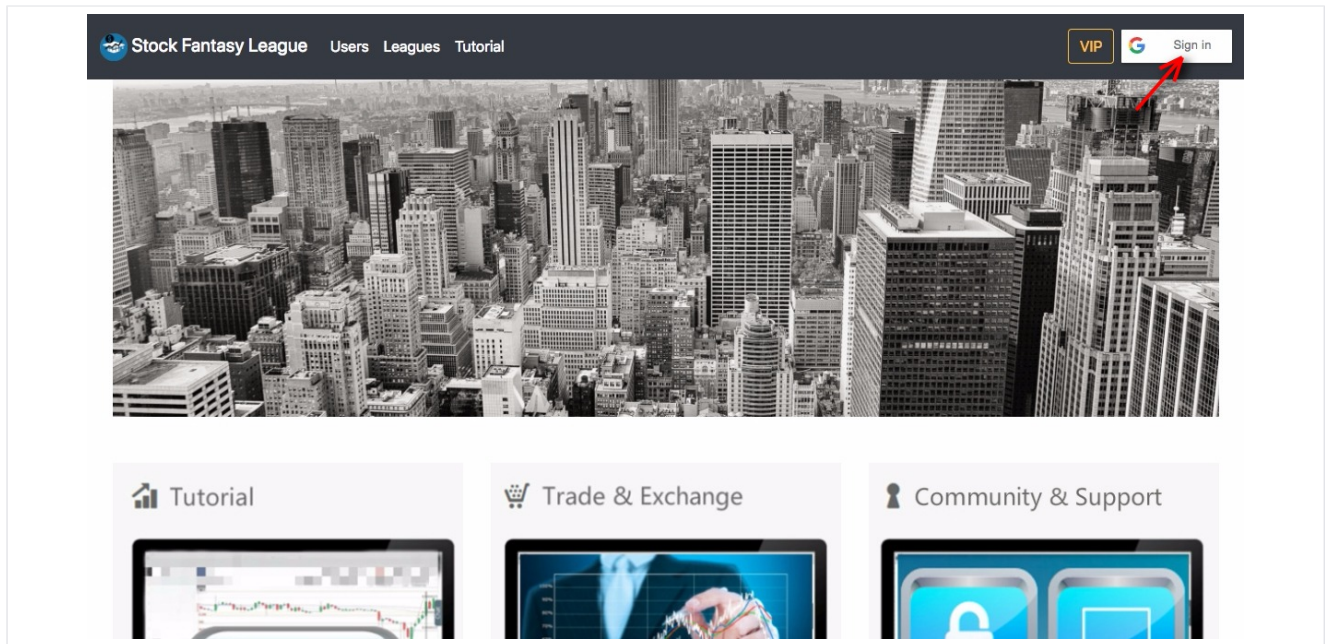
Account Creation pdf

User Table

```
uid | lid | pid | friends |      email      | messages | notifications | username |
    | vip | token | description | joinday
-----+-----+-----+-----+-----+-----+-----+-----+
  1 | {} | {} | {} | adc159@scarletmail.rutgers.edu | null | null | ALEXANDER CHAN | https://lh8
/s96-c/photo.jpg | f | 106804235000622510690 | 1522533325
(1 row)
```

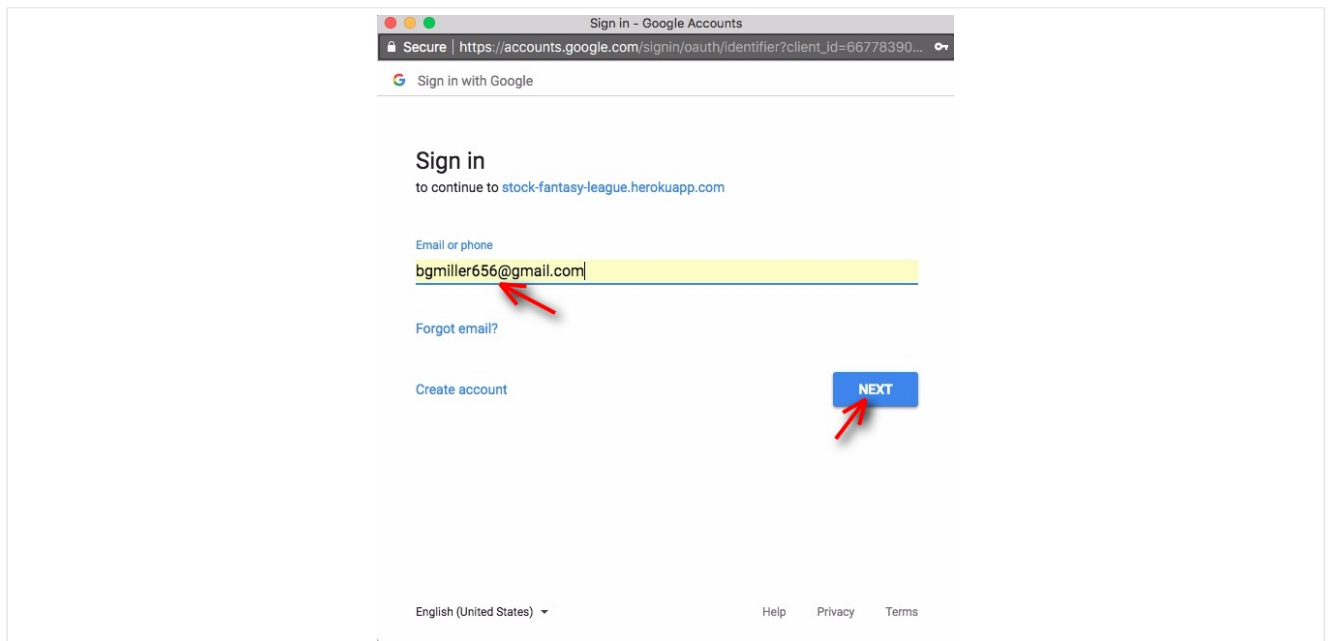
Before new account is created..

Signing in



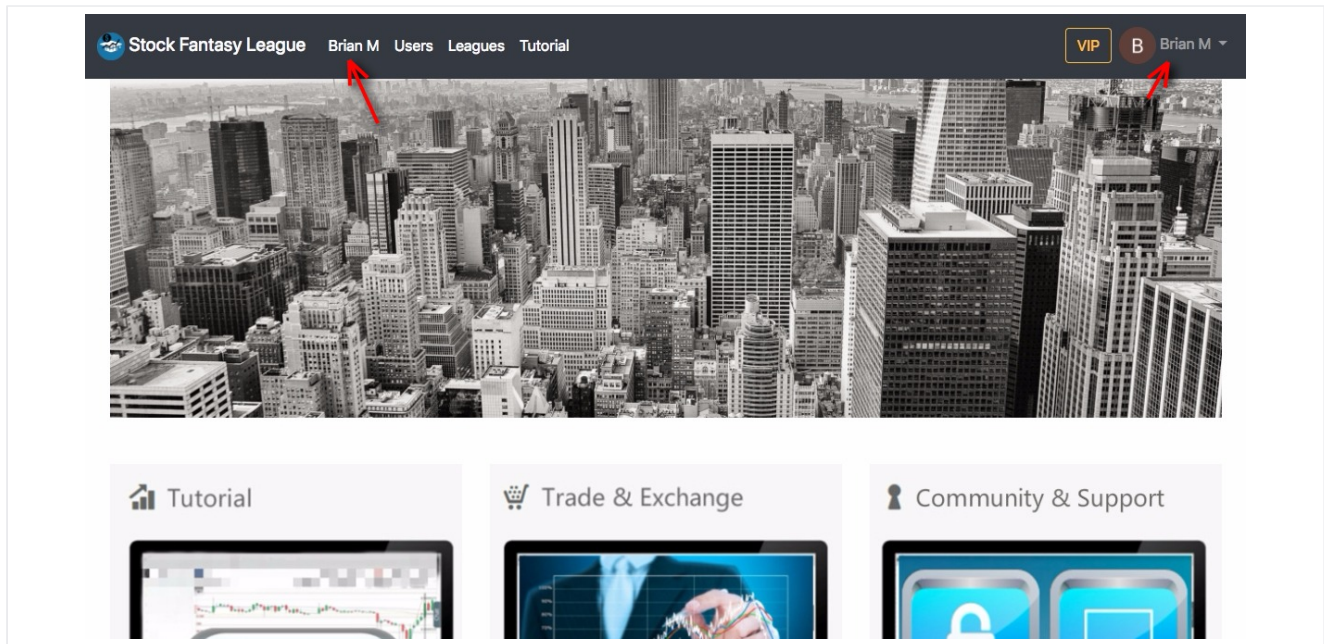
Home Screen to Sign in or create an account. Click "Sign in" at the top right hand corner of the screen.

Type Email



Type in a valid gmail account and proceed to click "Next".

Home Screen - Logged in



Displaying Home Page when logged into website.. Notice the updated fields.

Updated Database

```
uid | lid | pid | friends | token | email | messages | notifications | username |
-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 | {} | {} | {} | | adc159@scarletmail.rutgers.edu | null | null | ALEXANDER CHAN | https://lh6.
/s96-c/photo.jpg | f | 106804235000622510690 | 1522533325 |
2 | | | | bgm31@scarletmail.rutgers.edu | | | | BRIAN MILLER | https://lh3.
/s96-c/photo.jpg | f | 100563740438476217186 | 1522533493 |
3 | {} | {} | {} | | ly178@scarletmail.rutgers.edu | null | null | LOUIS YEUNG | https://lh4.
/s96-c/photo.jpg | f | 101683660120707 | 1522533515 |
5 | | | | bgmiller656@gmail.com | | | | Brian M | https://lh4.
/s96-c/photo.jpg | f | 107352704239474652751 | 1522533594 |
```

Red arrows point to the 'uid' column (specifically the value 5 for Brian M), the 'email' column (specifically 'bgmiller656@gmail.com'), and the 'username' column (specifically 'Brian M') in the database output.

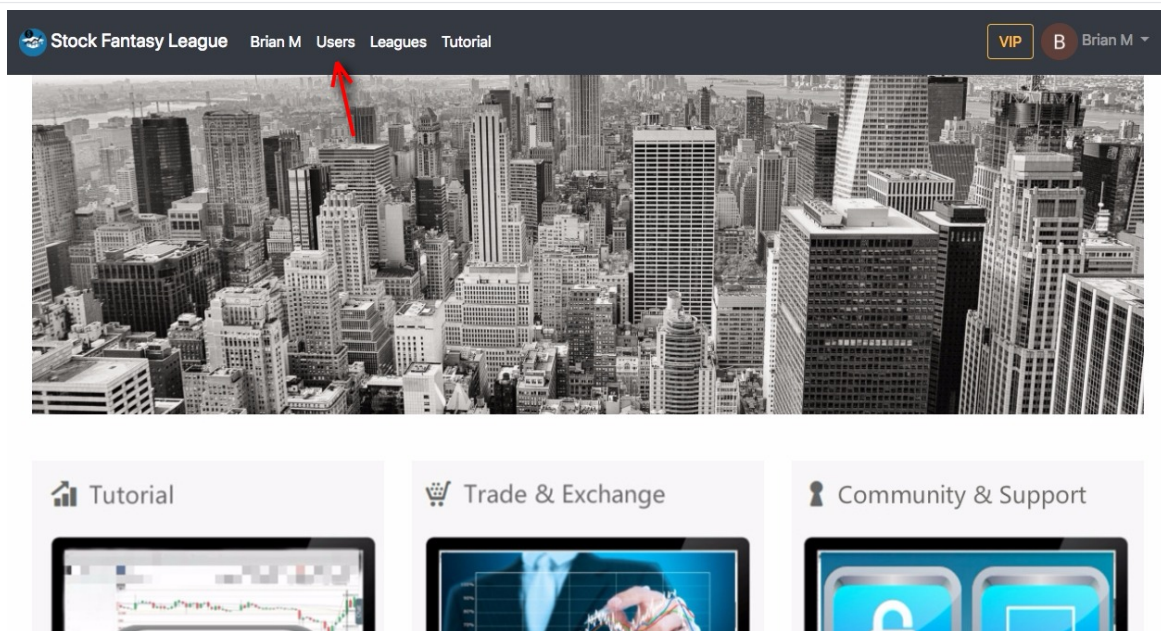
Notice the updated data base for users with the new user created "Brian M". With "uid" set to 5, which is a unique id for the newly created account.

Creating League

Leagues Table

```
den0hekga678pn=> select *from leagues;
l1d | uid | pid | startbal | duration | leagueName | description | owneruid | ownerpid | type
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----
2 | {4} | {6} | 500000 | 4039390800000 | High Balance | Buy anything you want! | 4 | 6 |
1 | {4,5} | {5,7} | 10000 | 4095288000000 | Louis's First League | Louis's first league! | 4 | 5 |
(2 rows)
```

Before Creating new League



Begin to Create League

B

Brian M

User Stats

•

Number of Leagues: 1

League Name

StartBalance

End Date

•

Number of Leagues: 1

League Name

StartBalance

End Date

mm/dd/yyyy

Description

Create League

Leagues with Brian M

Search Leagues

League Name	Description	Number Of Players	Start Balance	Join/View
Louis's First League	Louis's first league...	2	\$10,000.00	<div>View Player</div>

Create League

League Name

Integration Testing League

StartBalance

25000.00

End Date

03/20/2019

Description

Integration Testing League Description

Create League

Leagues with Brian M

Search Leagues

League Name	Description	Number Of Players	Start Balance	Join/View
Louis's First League	Louis's first league...	2	\$10,000.00	View Player

Enter Desired information, then click "Create League"

Leagues with Brian M					Search Leagues
League Name	Description	Number Of Players	Start Balance	Join/View	
Louis's First League	Louis's first league...	2	\$10,000.00	View Player	
Integration Testing League	Integration Testing ...	1	\$25,000.00	View Player	

Leagues Table

lid	uid	pid	startbal	duration	leaguename	description	owneruid	ownerpid
type								
2	{4}	{6}	500000	40393908000000	High Balance	Buy anything you want!	4	6
1	{4,5}	{5,7}	10000	40952880000000	Louis's First League	Louis's first league!	4	5
3	{5}	{8}	25000	15530544000000	Integration Testing League	Integration Testing League Description	5	8

League table after new league has been made.

Join League & Buy Stock

League Table

```
den0hekg678pn=> select * from leagues
;
```

lid	uid	pid	startbal	duration	leaguename	description	owneruid	ownerpid	type
1	{4}	{5}	10000	4095288000000	Louis's First League	Louis's first league!	4	5	
2	{4}	{6}	500000	4039390800000	High Balance	Buy anything you want!	4	6	

(2 rows)

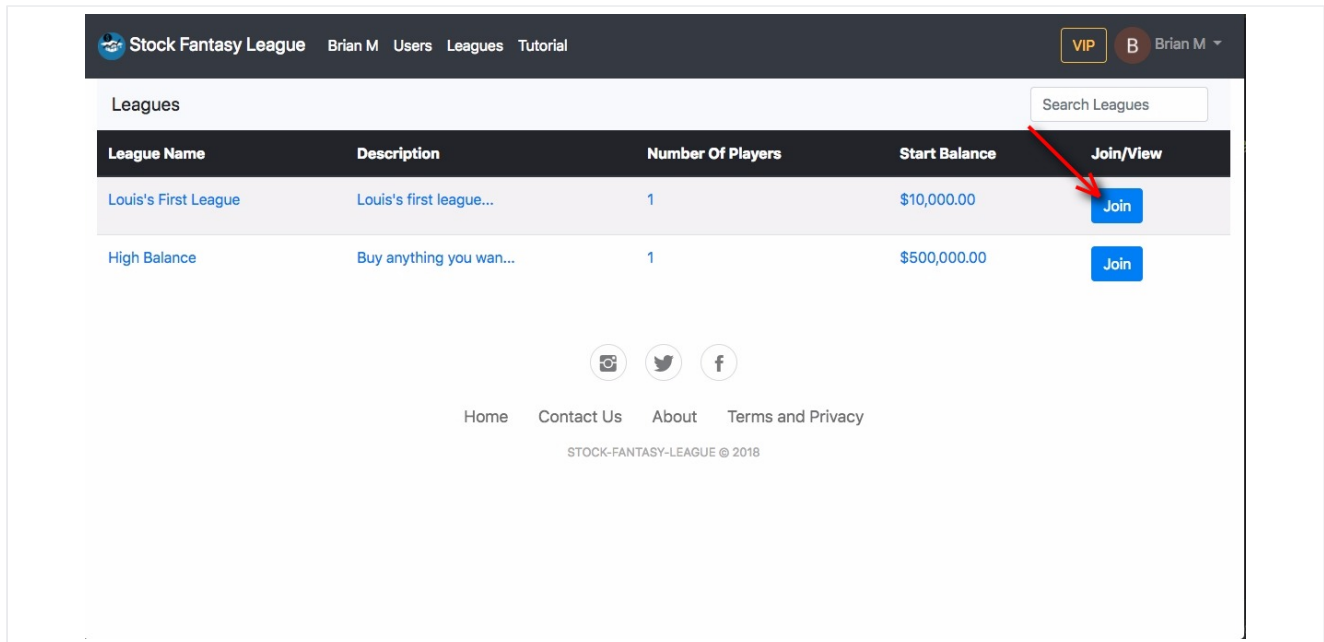
Before joining league.

Brian M UID

```
den0hekg678pn=> select * from userprefs
;
```

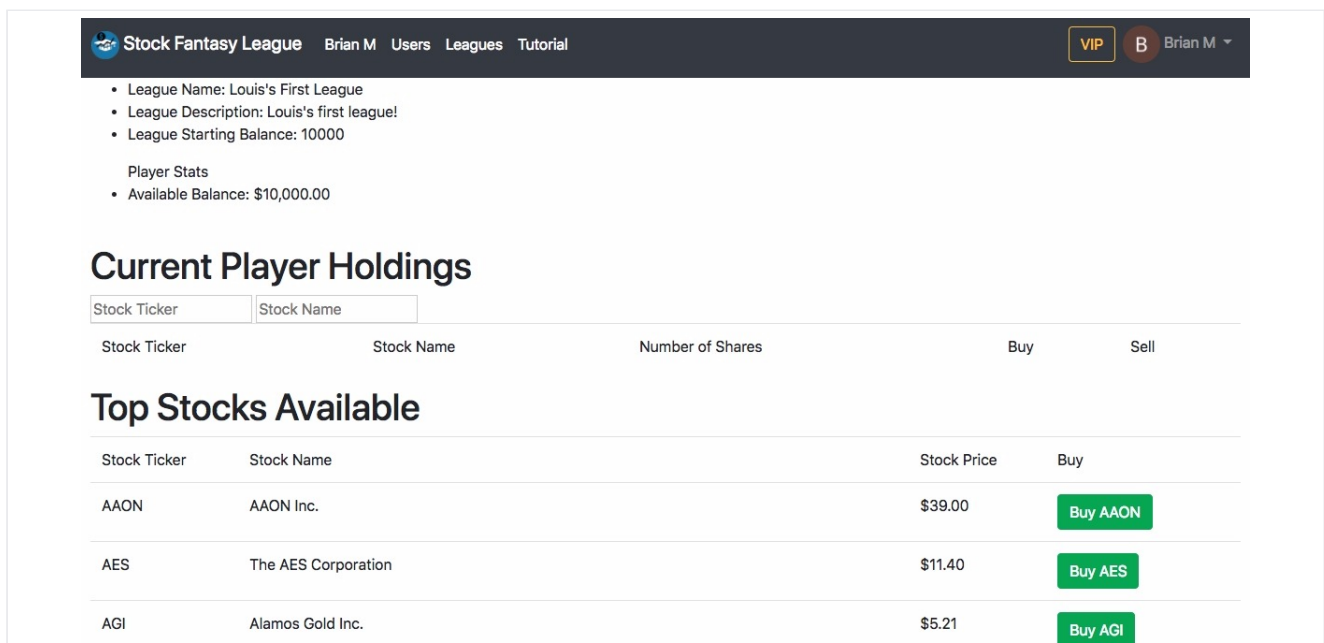
uid	lid	pid	friends	email	token	description	joinday	messages	notifications	username
1	{}	{}	{}	adcl59@scarletmail.rutgers.edu	106804235000622510690			1522533325		ALEXANDER CHAN
2	/s96-c/photo.jpg	f		bgm31@scarletmail.rutgers.edu	100563740438476217186			1522533493		BRIAN MILLER
3	/s96-c/photo.jpg	f	{}	ly178@scarletmail.rutgers.edu	101683660120707815904			1522533515		LOUIS YEUNG
5	/s96-c/photo.jpg	f		bgmiller656@gmail.com						Brian M

Join the League



Click "Join" to join this league while signed in as Brian M, with UID 5.

Joined the League



Now that you are part of the league, you can see your available balance as well as stocks to buy.

League Table

```
den0hekga678pn=> select * from leagues
;
lid | uid | pid | startbal | duration | leaguename | description | owneruid | ownerpid | type
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----
2 | {4} | {6} | 500000 | 4039390800000 | High Balance | Buy anything you want! | 4 | 6 |
1 | {4,5} | {5,7} | 10000 | 4095288000000 | Louis's First League | Louis's first league! | 4 | 5 |
(2 rows)
```

After joining the league.

Players Table

```
den0hekga678pn=> select * from players
;
pid | uid | lid | holding | notifications | avai balance | pendingorders | translog
-----+-----+-----+-----+-----+-----+-----+-----
5 | 4 | 2 | | | | |
6 | 4 | 2 | | | | |
7 | 5 | 1 | | | | |
(3 rows)
```

Before buying stock in the league.

Apple Stock Bought

- League Name: Louis's First League
- League Description: Louis's first league!
- League Starting Balance: 10000

Player Stats

- Available Balance: \$9,831.85

Current Player Holdings

Stock Ticker	Stock Name	Number of Shares	Buy	Sell
AAPL	Apple Inc.	1	<button>Buy AAPL</button>	<button>Sell AAPL</button>

Top Stocks Available

Stock Ticker	Stock Name	Stock Price	Buy
EPC	Energizer Holdings, Inc.	\$46.10	<button>Buy EPC</button>
WATT	Energous Corporation	\$15.25	<button>Buy WATT</button>

Updated Apple Stock Bought

```
den0hekga678nn=> select *from players;
pid  uid  lid  | holdings | notifications | availbalance | pendingorders | translog
-----+-----+-----+-----+-----+-----+-----+-----
5    4    2    |          |               |              |              | 
6    4    2    |          |               |              |              | 
8    5    3    |          |               |              |              | 
7    5    3    | [{"symbol": "AAPL", "name": "Apple Inc.", "numberShares": 1}] | null         | 9831.85      | null         | []
(4 rows)
```

Selling Integration Test

Player Table

pid	uid	lid	holdings	notifications	availbalance	pendingorders	translog
5	4	2					
6	4	2					
8	5	3					
7	5	3	[{"symbol": "AAPL", "name": "Apple Inc.", "numberShares": 1}, {"symbol": "EPC", "name": "Energizer Holdings, Inc.", "numberShares": 2}]	null	9734.12	null	[]

Player table before selling a share.

Click "Sell ..."

- League Name: Louis's First League
- League Description: Louis's first league!
- League Starting Balance: 10000

Player Stats

- Available Balance: \$9,734.12

Current Player Holdings

Stock Ticker	Stock Name	Number of Shares	Buy	Sell
AAPL	Apple Inc.	1	<button>Buy AAPL</button>	<button>Sell AAPL</button>
EPC	Energizer Holdings, Inc.	2	<button>Buy EPC</button>	<button>Sell EPC</button>

Click the appropriate sell button for which stock you wish to sell shares of.

Amount to sell

Sell: EPC - Energizer Holdings, Inc.

You're available balance is \$9,734.12.

Stock Ticker

EPC

Stock Name

Energizer Holdings, Inc.

Current Stock Price \$48.87

Number of Shares to Sell

Your available balance is \$9,734.12.

Your sale income is \$48.87.

Your total balance will be \$9,782.99.

Sell EPC

Updated Portfolio

- League Name: Louis's First League
- League Description: Louis's first league!
- League Starting Balance: 10000

Player Stats

- Available Balance: \$9,782.99

Current Player Holdings

Stock Ticker	Stock Name	Number of Shares	Buy	Sell
AAPL	Apple Inc.	1	<button>Buy AAPL</button>	<button>Sell AAPL</button>
EPC	Energizer Holdings, Inc.	1	<button>Buy EPC</button>	<button>Sell EPC</button>

This displays the updated portfolio of the player after the sell has been initiated.

Players Table

```
den0hakga67@pma> select * from players
+-----+-----+-----+-----+-----+-----+-----+-----+
pid | uid | lid | holdings | notifications | availbalance | pendingorders | translog
+-----+-----+-----+-----+-----+-----+-----+-----+
5 | 4 | 2 | [{"symbol": "AAPL", "name": "Apple Inc.", "numberShares": 1}, {"symbol": "EPC", "name": "Energizer Holdings, Inc.", "numberShares": 1}] | null | 9782.99 | null | []
(1 rows)
```

Displaying on the backend how our database has been updated.