Advanced Software Engineering
Homework 2
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The Price is Right

Github Repo:
https://github.com/gabriellet/thepriceisright

We are a JP Morgan Chase team and our toy system is meant to simulate login and a single trade as discussed with our mentor. We came up with the interface from the requirements elicitation session we had with him, in which he described his workflow.

We used Django as the web framework to generate the pages and forms, and Python to write the logic. The database is SQLite, and this stores user and trade information.

To run this server clone the repo and in the top directory (containing “manage.py”) run the following:

```
python manage.py runserver
```

You must have Python 2.x or up installed as well as the most recent version of Django. In your browser, visit localhost:8000 to see our webapp. To login use these “credentials”:

```
Username: catlady
Password: Ilikecats123
```

Click the link on the homepage to visit the stocks page. There, enter an integer quantity of stocks to sell. Currently we have hardcoded the type of stock as “ACME ETF”. Pressing the trade button will indicate that the trade was successful.

To view the database, from the command line run:

```
python manage.py shell
```

In the shell, execute the following:

```
In[1]: from stocks.models import ParentOrder

In[2]: ParentOrder.objects.all()
```

The result should resemble this:

```
      Out[2]:  <QuerySet [<ParentOrder: 5: 48597295xACME ETF>,
<ParentOrder: 6: 11111112xACME ETF>]>
```

Difficulties encountered were that Django had very cryptic error messages and sample code was sometimes inaccurate or difficult to extend to our purposes. Apart from that there were sometimes encoding errors we could not understand because HTML's UTF-8 encoding would not play well with Python.

We wanted to make our webapp use Bootstrap but did not have time to implement this.