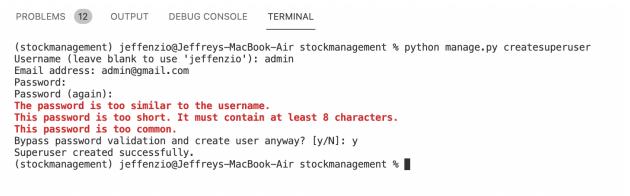
Stock Trading System – Implementation

Prerequisites:

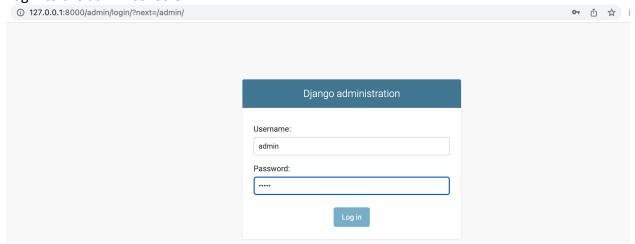
- 1. Python, Django installation.
 - https://docs.djangoproject.com/en/4.0/topics/install/
 - → You can either install it in a virtual environment or in your local computer.
- 2. Creating a superuser.
 - → https://www.geeksforgeeks.org/how-to-create-superuser-in-django/
 - → A superuser is required to login into the admin console to create a group for admin and a user as admin as well.



- 3. Start the server → python manage.py runserver
 - 3.1. Create an user -> stock admin using the registration form:

http://127.0.0.1:8000/register user

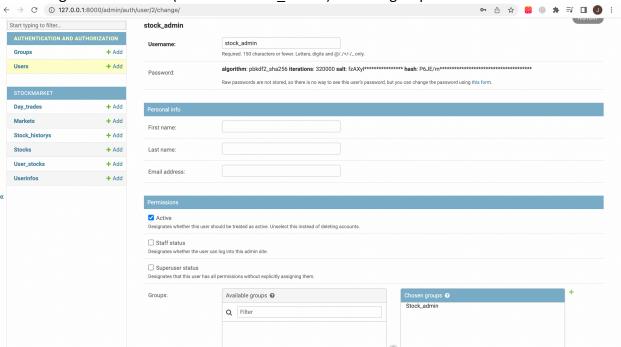
- 3.2. He will act as the admin.
- 4. Login to the admin console.



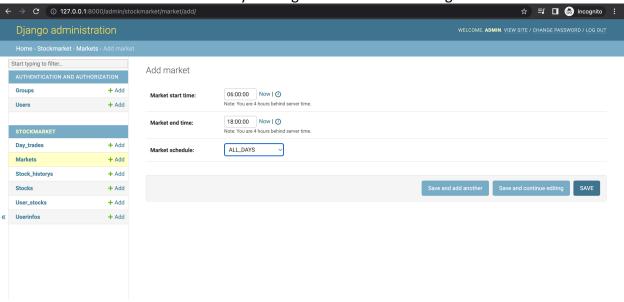
4.1. Create a group – "Stock_admin".



4.2. Adding the admin user (named as stock_admin) into the group as well.



5. Provide the initial Market Schedule by clicking on Markets and adding a record:



Implementation:

- 1. Admin Roles:
 - → Modifying the market schedule.
 - → Creating stocks
- 2. User Roles:
 - → Buy Stock using Cash.
 - → Buy Stock using Limit Order.
 - → Sell Stock using Cash.
 - → Sell Stock using Limit Order.
 - → List all transactions.
 - → See Limit Order pending history and delete them if required.
 - → Look at his stocks and his bank limit.
- 3. Random Price Generator:
 - → Modify the prices using random function.
 - → If a stock follows the Limit Order condition set by any user, it will automatically be bought or sold.
 - → It needs to be added to crontab (to run every 5 minutes):

5 * * * *

/opt/homebrew/Caskroom/miniforge/base/envs/stockmanagement/bin/python3 /Users/jeffenzio/LocalDocuments/Documents/Education/Grad/Projects/StockManagement/stockmanagement/manage.py randomPriceGen

Deployment Guide:

1.	If the pre-requisites are comp	leted, the application can l	be started and used.
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