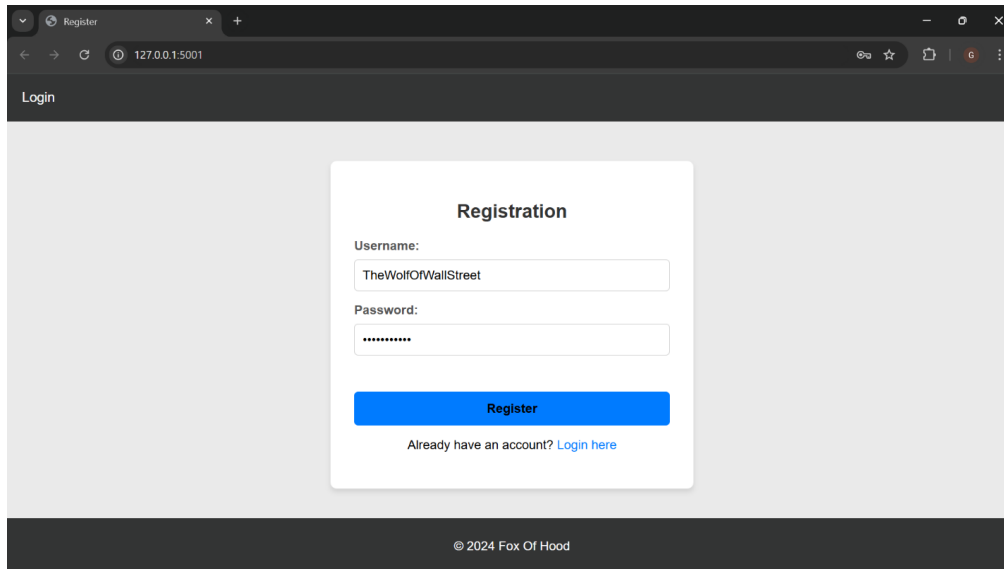


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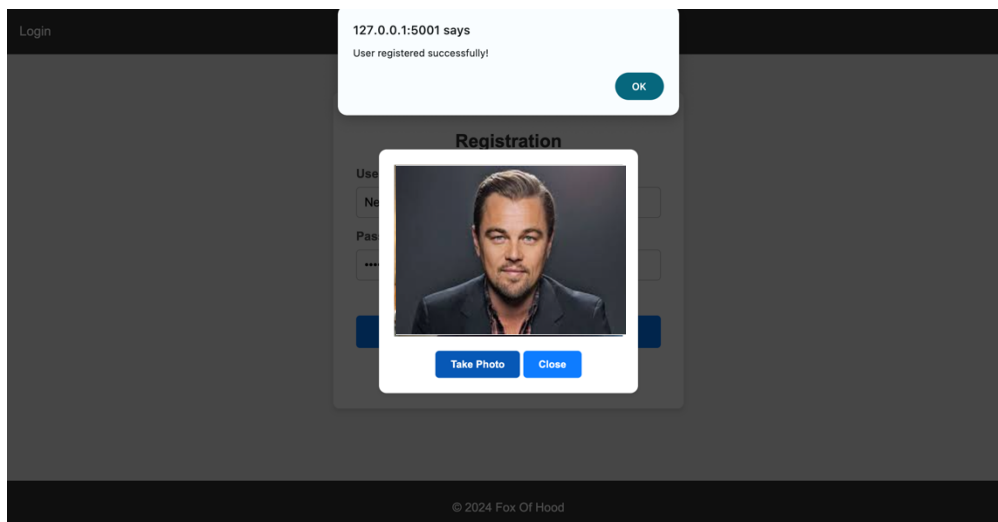
1. Register for an account

Enter a unique username and a password with at least 8 characters, one special character, and one number. Take a user photo (needed for facial recognition login).



A screenshot of a web browser window showing a registration form. The browser's address bar displays '127.0.0.1:5001'. The page has a dark header with the word 'Login' on the left. The main content area is light gray and features a white registration form titled 'Registration'. The form includes a 'Username:' label with a text input field containing 'TheWolfOfWallStreet', a 'Password:' label with a password input field showing eight asterisks, and a blue 'Register' button. Below the button is a link that says 'Already have an account? [Login here](#)'. The footer of the page is dark and contains the copyright notice '© 2024 Fox Of Hood'.

Figure 1 Entering a username and password



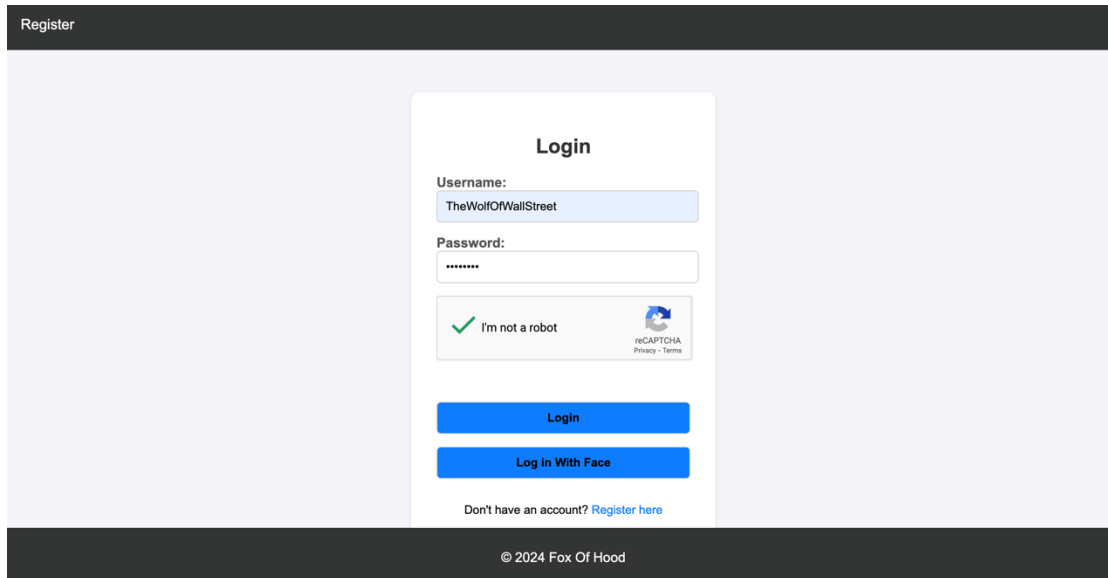
A screenshot of the registration process showing a facial recognition photo capture step. A light blue notification box at the top states '127.0.0.1:5001 says User registered successfully!' with an 'OK' button. Below this, the registration form is visible but dimmed. A white modal window is centered on the screen, displaying a photo of a man (resembling Leonardo DiCaprio). At the bottom of the modal are two buttons: 'Take Photo' and 'Close'. The footer of the page is dark and contains the copyright notice '© 2024 Fox Of Hood'.

Figure 2 Taking a facial recognition photo

2. Logging into your account

Option 1:

Enter your username and password and complete the CAPTCHA. Select “Login”.

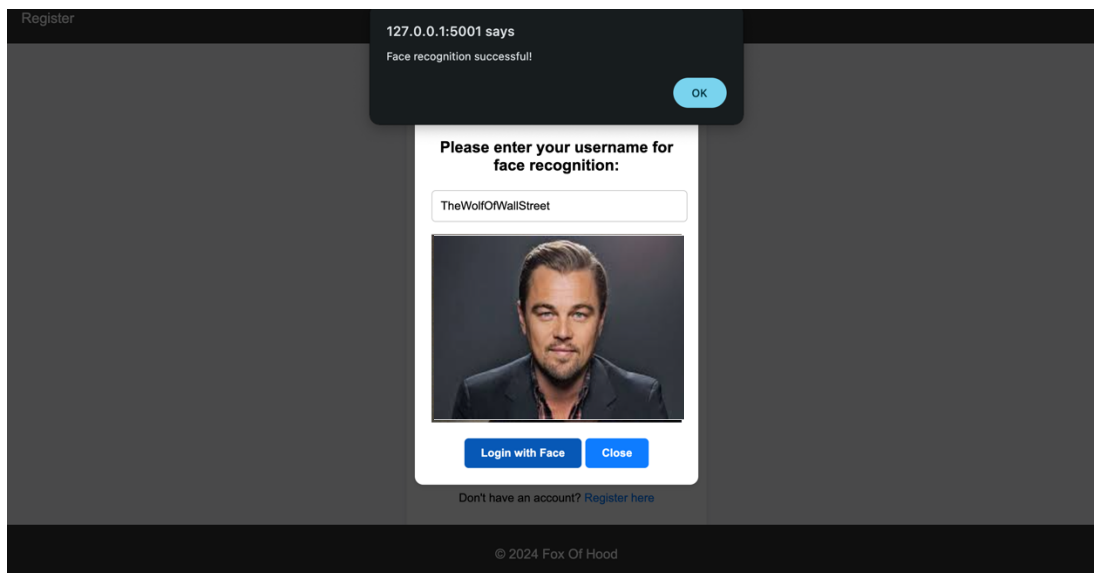


The screenshot shows a web application interface for logging in. At the top left, there is a 'Register' link. The main content area features a 'Login' form. The form has two input fields: 'Username:' with the value 'TheWolfOfWallStreet' and 'Password:' with masked characters. Below the password field is a reCAPTCHA widget with the text 'I'm not a robot' and a green checkmark. Underneath the CAPTCHA are two blue buttons: 'Login' and 'Log in With Face'. At the bottom of the form, there is a link: 'Don't have an account? Register here'. The footer of the page displays '© 2024 Fox Of Hood'.

Figure 3 Login with username, password and CAPTCHA

Option 2:

Select “Log in With Face” and “OK” after success.



The screenshot shows the same web application interface as Figure 3, but with a modal dialog box open for face recognition. At the top, a dark notification banner displays the IP address '127.0.0.1:5001 says' and the message 'Face recognition successful!' with an 'OK' button. The modal dialog box has the title 'Please enter your username for face recognition:' and contains a text input field with 'TheWolfOfWallStreet'. Below the input field is a photo of Leonardo DiCaprio. At the bottom of the modal are two buttons: 'Login with Face' and 'Close'. The background of the page is dimmed. The footer still shows '© 2024 Fox Of Hood'.

Figure 4 Login with Face

3. Navigating your account

There are 3 main pages for your account usage.

1. Portfolio Page

Here you can view your current balance, stocks owned (including their purchase price, current price, the profit percentage and amount of profit). These details are also viewable in the scatterplot below. After buying a stock, it will be added to your stock portfolio!

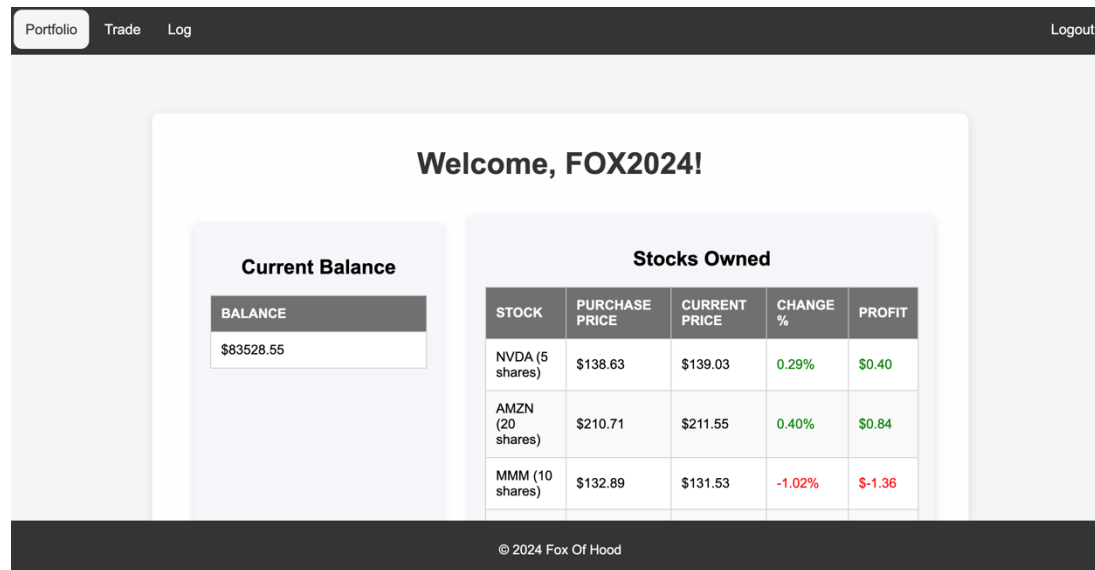


Figure 5 Portfolio Page

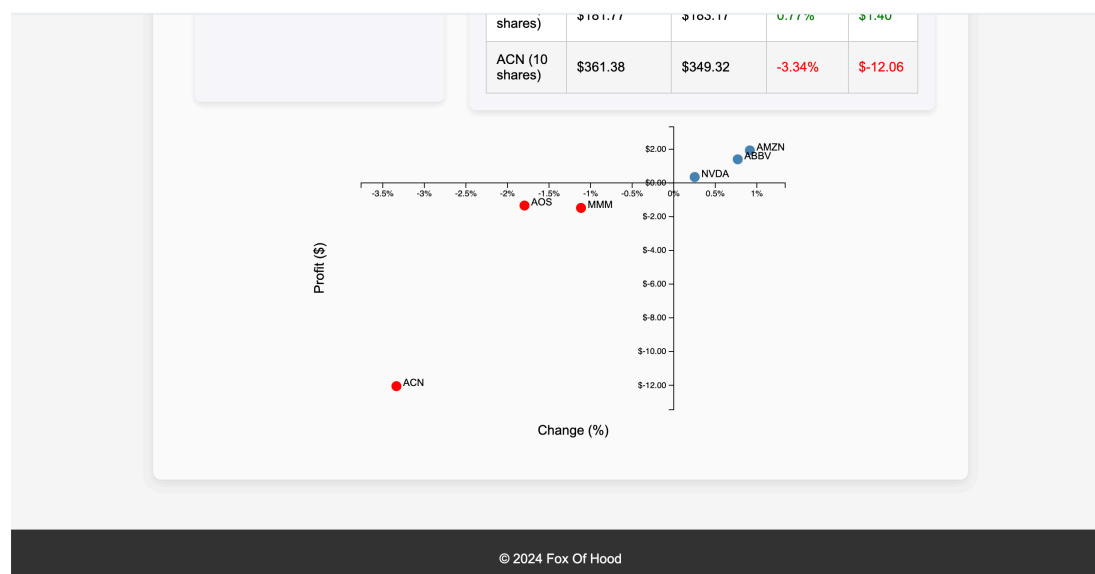


Figure 6 Graphed Profit and Loss based on Stocks Owned

2. Trade Page

Here you can search, buy and sell stocks, as well as schedule a buy or sell. Your searched stock will display a graph of its price over the last 30 days. There is also a table of top 5 stocks to choose from for trading purposes, as well as a bar graph to compare their prices.

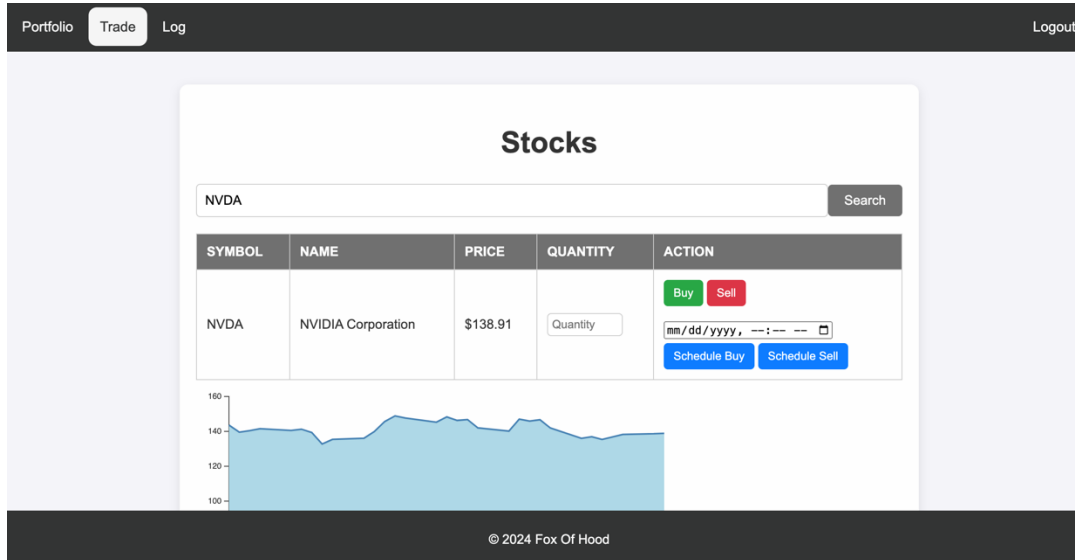


Figure 7 Trade Page

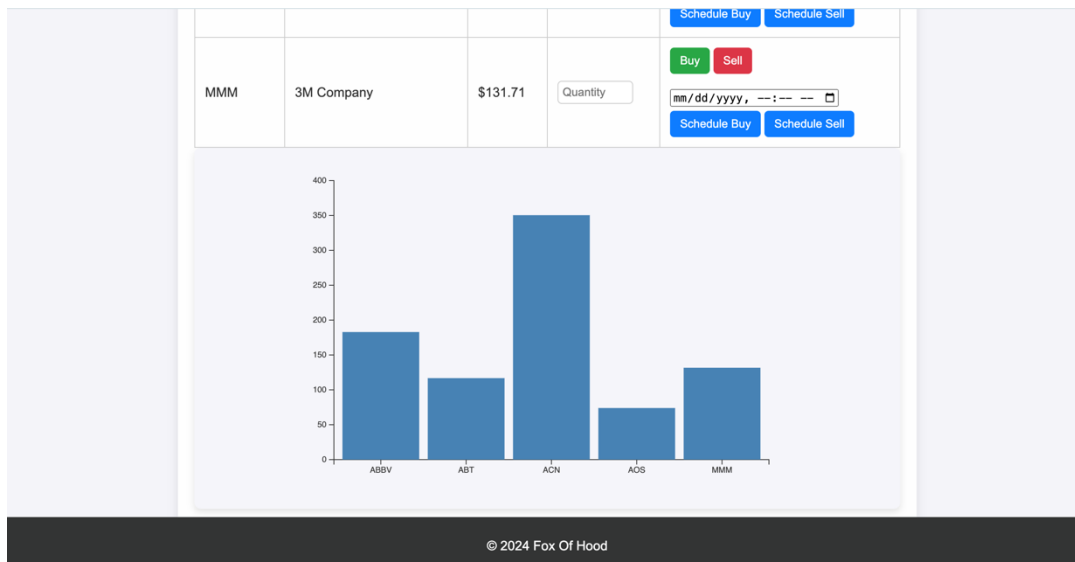


Figure 8 Bottom of Trade Page Displaying Top Stocks

3. Activity Log Page

This page displays when you bought or sold a stock, and log in and log out times. For user reference, your updated balance after every activity is shown.

Portfolio	Trade	Log	Logout
Activity Log			
ACTION	STOCK	DATE	BALANCE
Logged on	N/A	Tue, 03 Dec 2024 01:50:56 GMT	100000.00
Bought	NVDA	Tue, 03 Dec 2024 01:51:02 GMT	99306.85
Bought	AMZN	Tue, 03 Dec 2024 01:51:10 GMT	95092.65
Bought	MMM	Tue, 03 Dec 2024 01:51:43 GMT	93763.75
Bought	AOS	Tue, 03 Dec 2024 01:51:49 GMT	90777.75
Bought	ABBV	Tue, 03 Dec 2024 01:52:00 GMT	87142.35
Bought	ACN	Tue, 03 Dec 2024 01:52:04 GMT	83528.55
© 2024 Fox Of Hood			

Figure 9 Activity Log showing the action, stock (if applicable), date and time, and remaining balance after activities

4. Trading

1. Real-time transactions

After either searching a specific stock or choosing one from the top stocks list on the Trade page, select a quantity of stock to buy or sell, then select the green “Buy” button or red “Sell” for an immediate transaction. You will be notified that the transaction was successful. The changes to your stock portfolio will be immediately visible on your Portfolio and Log pages.

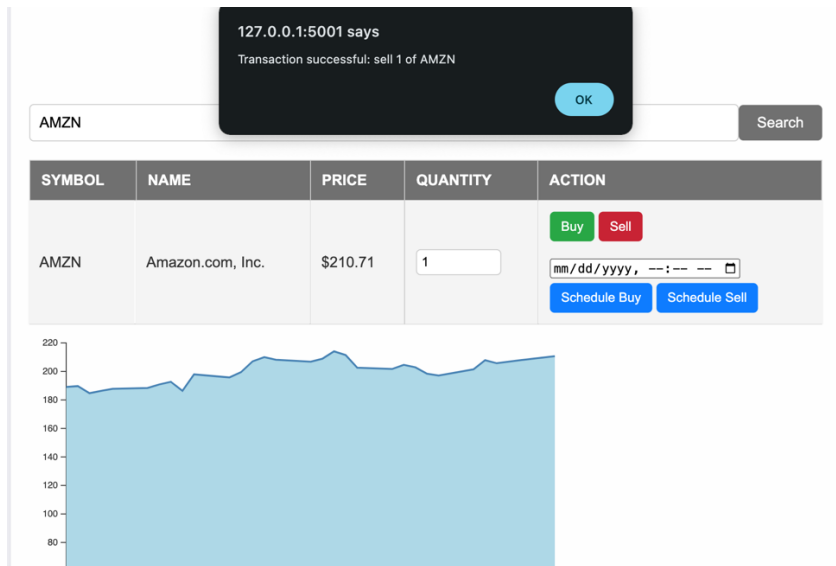


Figure 10 Buying 1 share of AMZN stock

2. Scheduled transactions

Instead of immediately buying or selling stocks, you could schedule a buy or sell. After choosing a stock and specifying a quantity, either manually fill in the date and time details or click the calendar icon to select these details as shown below:

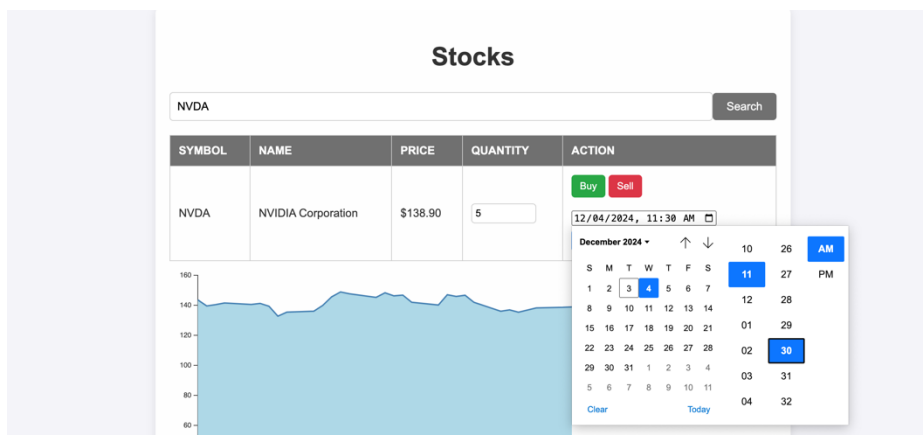


Figure 11 Scheduling buying 5 NVDA shares on 12/04/2024 at 11:30 AM

Next, click out of the calendar and select “Scheduled Buy” or “Scheduled Sell” respectively.

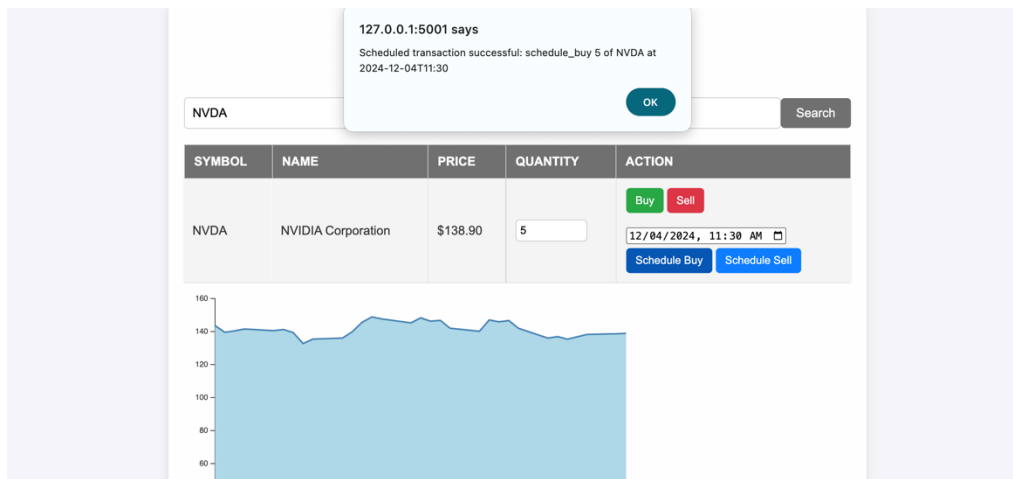


Figure 12 Successfully scheduling a stock purchase

5. Logging out

Simply click on the “Logout” button on any of the 3 pages and you will be redirected to this page.

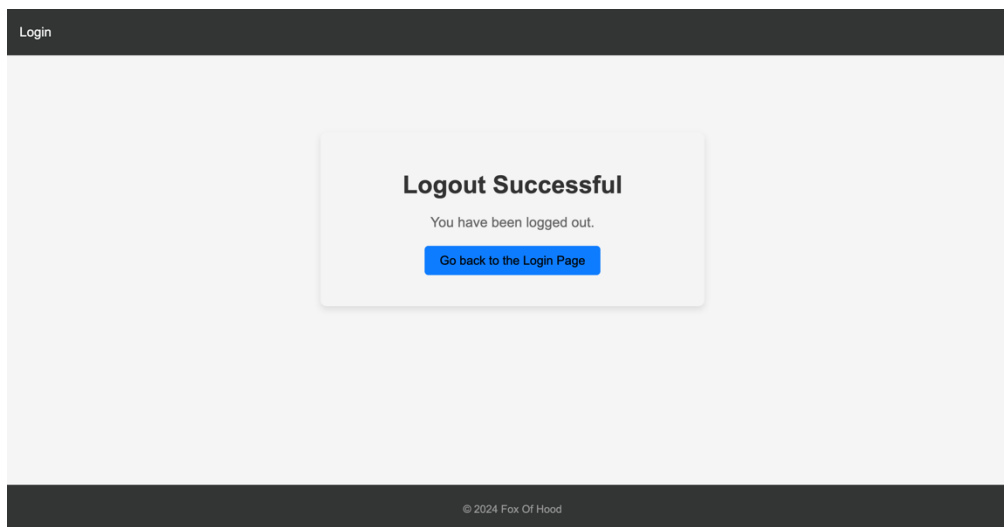


Figure 13 Logout page