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import yfinance as yf
import pandas as pd
import os

def clear_screen():
    """Clears the console screen."""
    os.system('cls' if os.name == 'nt' else 'clear')

def get_stock_data(ticker):
    """Fetches real-time stock data using yfinance."""
    try:
        stock = yf.Ticker(ticker)
        data = stock.info # Use info for a more concise set of
data
        return data
    except Exception as e:
        print(f"Error fetching data for {ticker}: {e}")
        return None

def display_portfolio(portfolio):
    """Displays the current stock portfolio."""
    clear_screen()
    if not portfolio:
        print("Your portfolio is empty.")
        return

    print("\n--- Your Portfolio ---")
    df = pd.DataFrame(portfolio).T # Transpose for better
readability
    print(df[['shortName', 'currentPrice', 'quantity',
'previousClose', 'marketCap', 'sector']].to_string())
    print("-" * 20)

def main():
    """Main function to run the stock portfolio tracker."""
    portfolio = {}

    while True:
        clear_screen()
        print("\nStock Portfolio Tracker")
        print("1. Add Stock")
        print("2. Remove Stock")
        print("3. View Portfolio")
        print("4. Exit")

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choice = input("Enter your choice: ")

if choice == '1':
    ticker = input("Enter stock ticker (e.g., AAPL):
").upper()
    quantity = int(input("Enter quantity: "))
    stock_data = get_stock_data(ticker)

    if stock_data:
        if ticker in portfolio:
            portfolio[ticker]['quantity'] += quantity
        else:
            portfolio[ticker] = stock_data
            portfolio[ticker]['quantity'] = quantity
            print(f"{ticker} added to portfolio.")
            input("Press Enter to continue...")

elif choice == '2':
    ticker = input("Enter stock ticker to remove:
").upper()
    if ticker in portfolio:
        del portfolio[ticker]
        print(f"{ticker} removed from portfolio.")
    else:
        print(f"{ticker} not found in portfolio.")
        input("Press Enter to continue...")

elif choice == '3':
    display_portfolio(portfolio)
    input("Press Enter to continue...")

elif choice == '4':
    break
else:
    print("Invalid choice. Please try again.")
    input("Press Enter to continue...")

if __name__ == "__main__":
    main()

```