WebHooks

This project is a stock price monitoring application built using HTML, JavaScript, and Express.js. The HTML file provides a form for users to subscribe to stock price notifications. When users submit the form, JavaScript captures the input data and sends it to the server using a POST request. The Express.js server handles the subscription logic, storing user subscriptions in memory.

Index.html

<!DOCTYPE *html*>

<html *lang*="en">

<head>

    <meta *charset*="UTF-8">

    <meta *name*="viewport" *content*="width=device-width, initial-scale=1.0">

    <title>Stock Price Monitoring</title>

</head>

<body>

    <h1>Stock Price Monitoring</h1>

    <form *id*="subscriptionForm">

        <label *for*="userId">User ID:</label>

        <input *type*="text" *id*="userId" *name*="userId" *required*><br>

        <label *for*="stockSymbol">Stock Symbol:</label>

        <input *type*="text" *id*="stockSymbol" *name*="stockSymbol" *required*><br>

        <label *for*="threshold">Threshold:</label>

        <input *type*="number" *id*="threshold" *name*="threshold" *required*><br>

        <button *type*="submit">Subscribe</button>

    </form>

    <script>

        document.getElementById('subscriptionForm').addEventListener('submit', async (event) => {

            event.preventDefault();

            const formData = new FormData(event.target);

            const userId = formData.get('userId');

            const stockSymbol = formData.get('stockSymbol').toUpperCase(); *// Convert to uppercase*

            const threshold = parseFloat(formData.get('threshold'));

*try* {

                const response = *await* fetch('/subscribe', {

                    method: 'POST',

                    headers: {

                        'Content-Type': 'application/json'

                    },

                    body: JSON.stringify({ userId, stockSymbol, threshold })

                });

                const result = *await* response.text();

                alert(result);

            } *catch* (error) {

                console.error('Error:', error);

                alert('An error occurred. Please try again.');

            }

        });

    </script>

</body>

</html>

App.js

const express = require('express');

const app = express();

const port = 3000;

app.use(express.json());

let subscriptions = {};

app.post('/subscribe', (req, res) => {

    const { userId, stockSymbol, threshold } = req.body;

    subscriptions[userId] = { stockSymbol, threshold };

    res.status(200).send('Subscribed successfully');

});

function checkStockPrices() {

    const stockPrices = {

        'AAPL': 150.25,

        'GOOGL': 2700.50,

        'MSFT': 320.75,

    };

    Object.entries(subscriptions).forEach(([userId, { stockSymbol, threshold }]) => {

        const currentPrice = stockPrices[stockSymbol];

*if* (currentPrice && currentPrice >= threshold) {

            console.log(`Sending webhook notification to user ${userId} - ${stockSymbol} price exceeds ${threshold}: ${currentPrice}`);

        }

    });

}

setInterval(checkStockPrices, 5000);

app.listen(port, () => {

    console.log(`Server running at http://localhost:${port}`);

});

  "dependencies": {

    "express": "^4.18.3"

  }

A screenshot of a computer

Description automatically generated