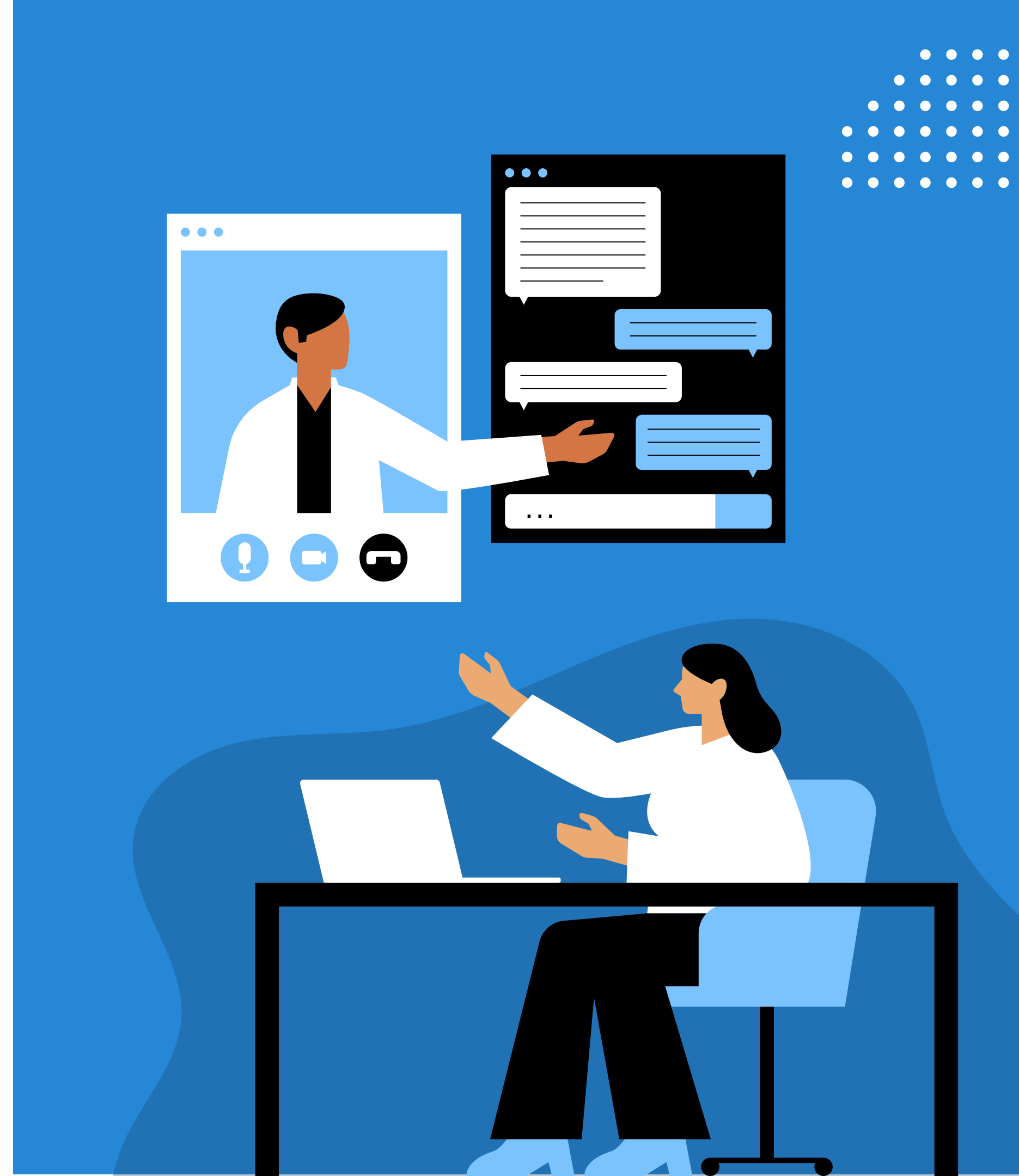




Asset Management System



Assets Managed



Stocks



Gold



Bitcoin

Tech Stack



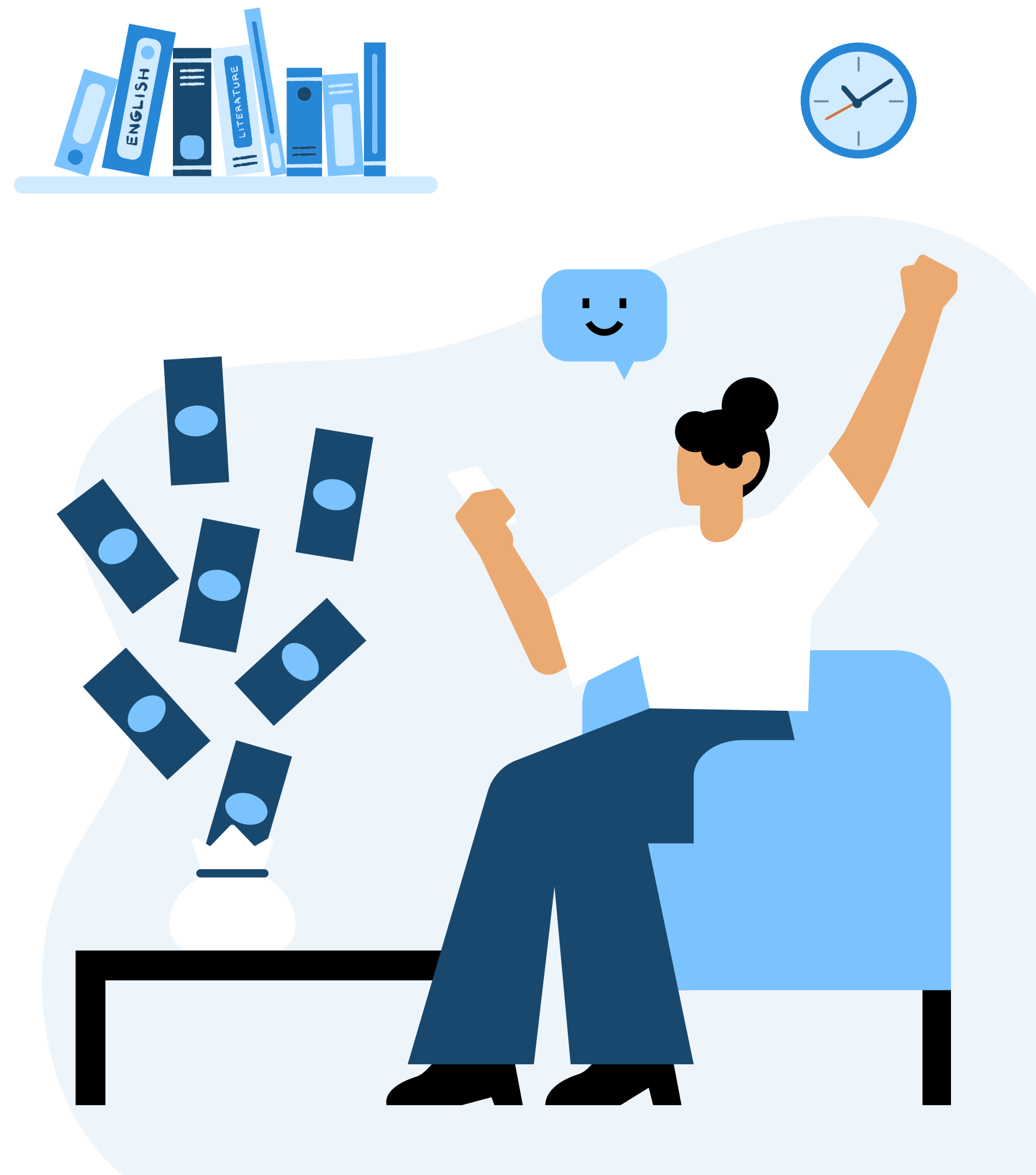
Spring Boot



Angular

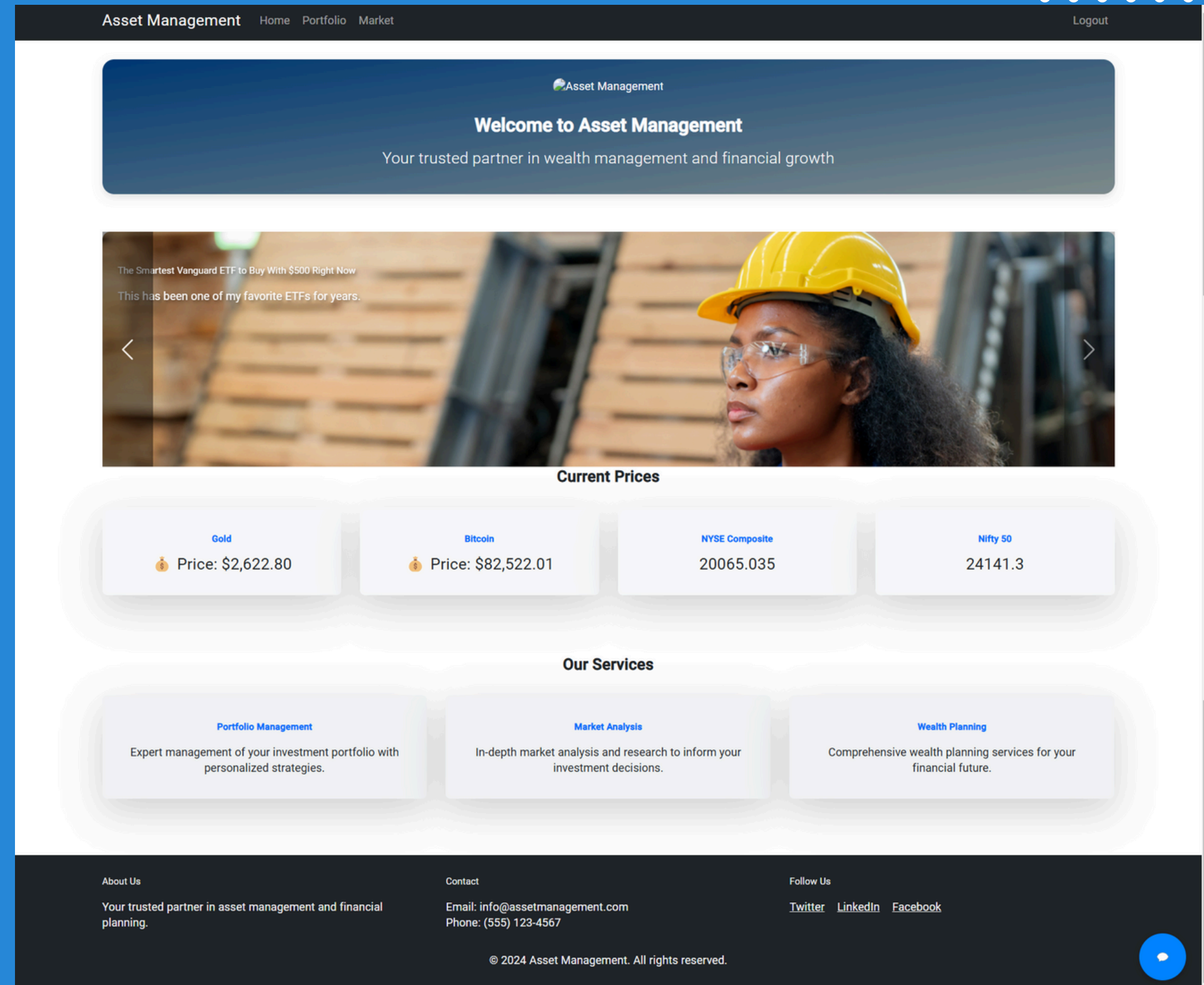


Machine Learning



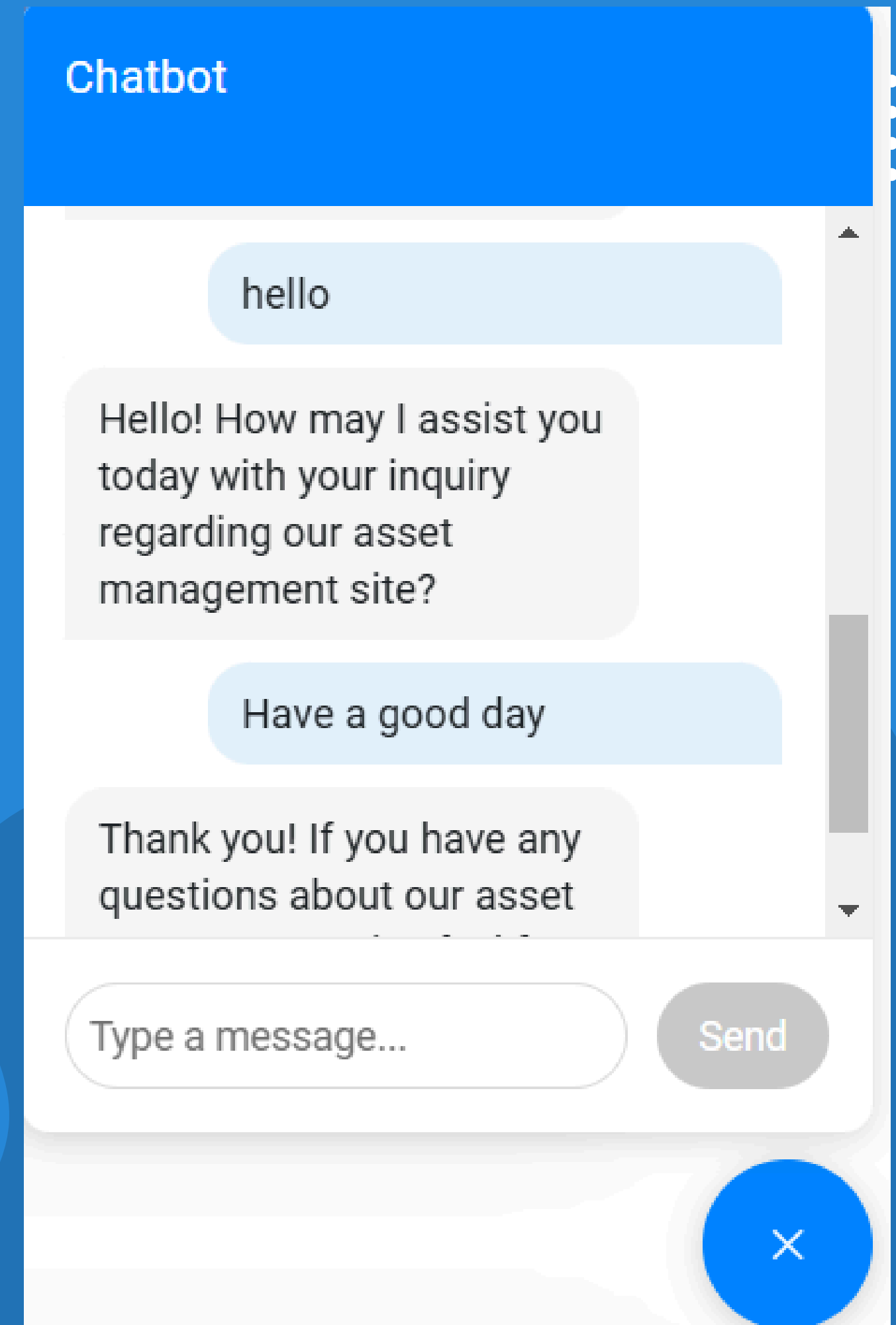
UI Breakdown

- ChatBot
 - Home
 - SignUp
 - Login
 - Portfolio
 - Market
- Stocks
 - Gold
 - Crypto



ChatBot

- OpenAI's GPT-3.5-turbo model for advanced conversational capabilities
- Supports JSON request and response formats for seamless data exchange.
- Allows users to send custom messages and receive tailored responses.



ChatBot- Local Storage

- Storing the chats for a span of 10 minutes in the local storage

The image shows a web application interface on the left and the Chrome DevTools Application tab on the right. The web application has a dark header with a menu icon, a blue 'Chatbot' button, and a chat area with three messages: 'hello', 'Hello! How can I assist you with our asset management site?', and 'How are you'. Below the chat area is a text input field 'Type a message...' and a 'Send' button. The DevTools Application tab shows the 'Storage' section expanded, with 'Local storage' selected. The 'http://localhost:4200' storage area is expanded, showing a table with three items: 'chatConversation', 'returnUrl', and 'token'. The 'chatConversation' item is selected, showing its value as an array of chat messages. The 'returnUrl' item has a value of '/'. The 'token' item has a long alphanumeric value.

Key	Value
chatConversation	[{"text": "hello", "isUser": true, "timestamp": 17313484193...}]
returnUrl	/
token	eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJtZUBnbWVpY20i...

▼ [{"text": "hello", "isUser": true, "timestamp": 1731348419374},...]
▶ 0: {text: "hello", isUser: true, timestamp: 1731348419374}
▶ 1: {text: "Hello! How can I assist you with our asset management site?", isUser: false,...}
▶ 2: {text: "How are you", isUser: true, timestamp: 1731348435173}
▶ 3: {,...}]

SignUp & Login

- User authentication via REST API for secure login and registration.
- Angular's Reactive Forms to create user-friendly forms for login and signup.
- The use of MatSnackBar for notifications provides users with immediate feedback on their actions.

Sign Up

Full Name

Email address

Password

Confirm Password

Sign Up

Login

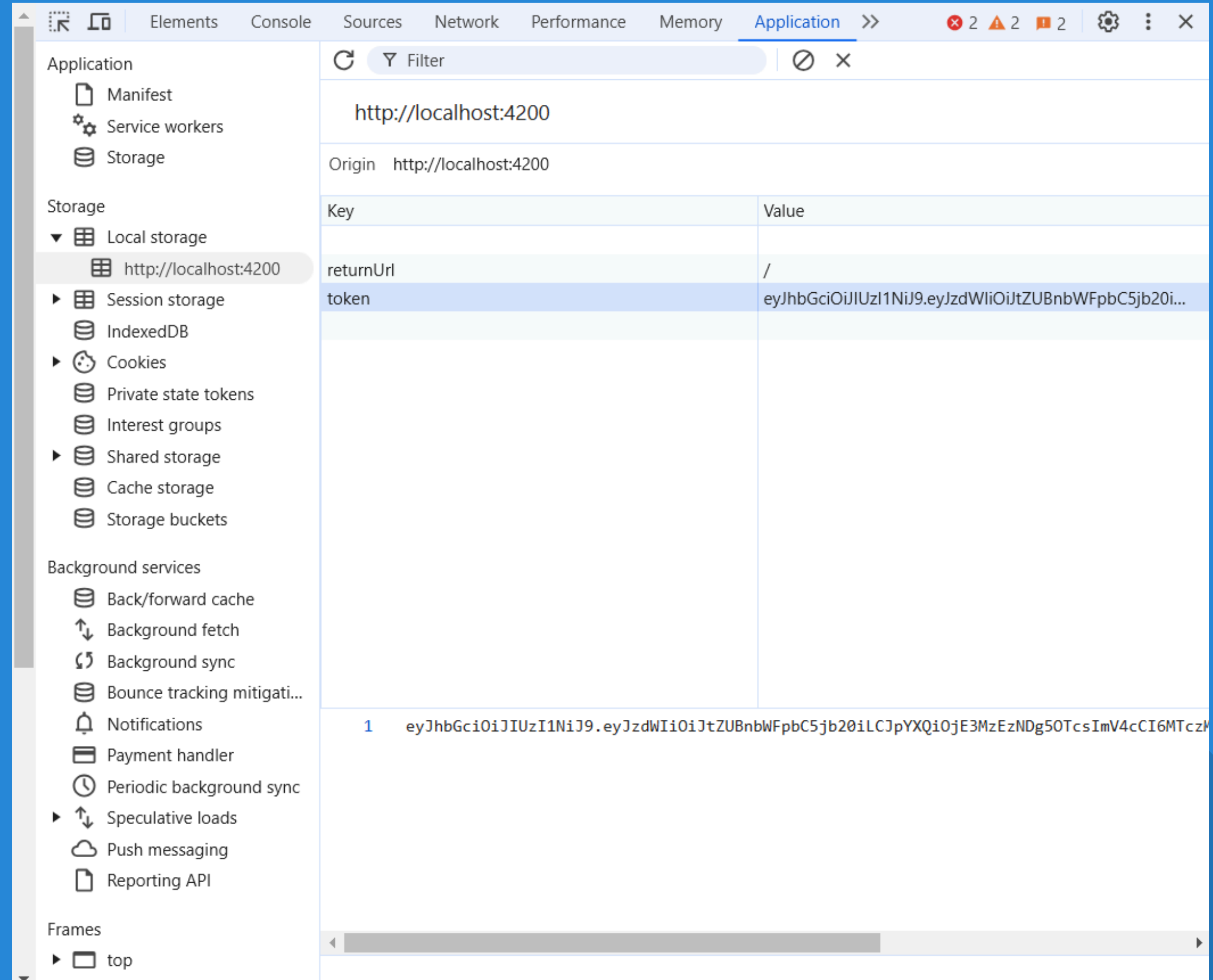
Email address

Password

Login

SignUp & Login - Local Storage

- Storing Authentication JWT Token inside Browser Local Storage and maintaining the session for 1 hour (60 mins)



The screenshot shows the Chrome DevTools Application tab. The left sidebar is expanded to 'Storage' > 'Local storage' > 'http://localhost:4200'. The main pane displays a table of stored items:

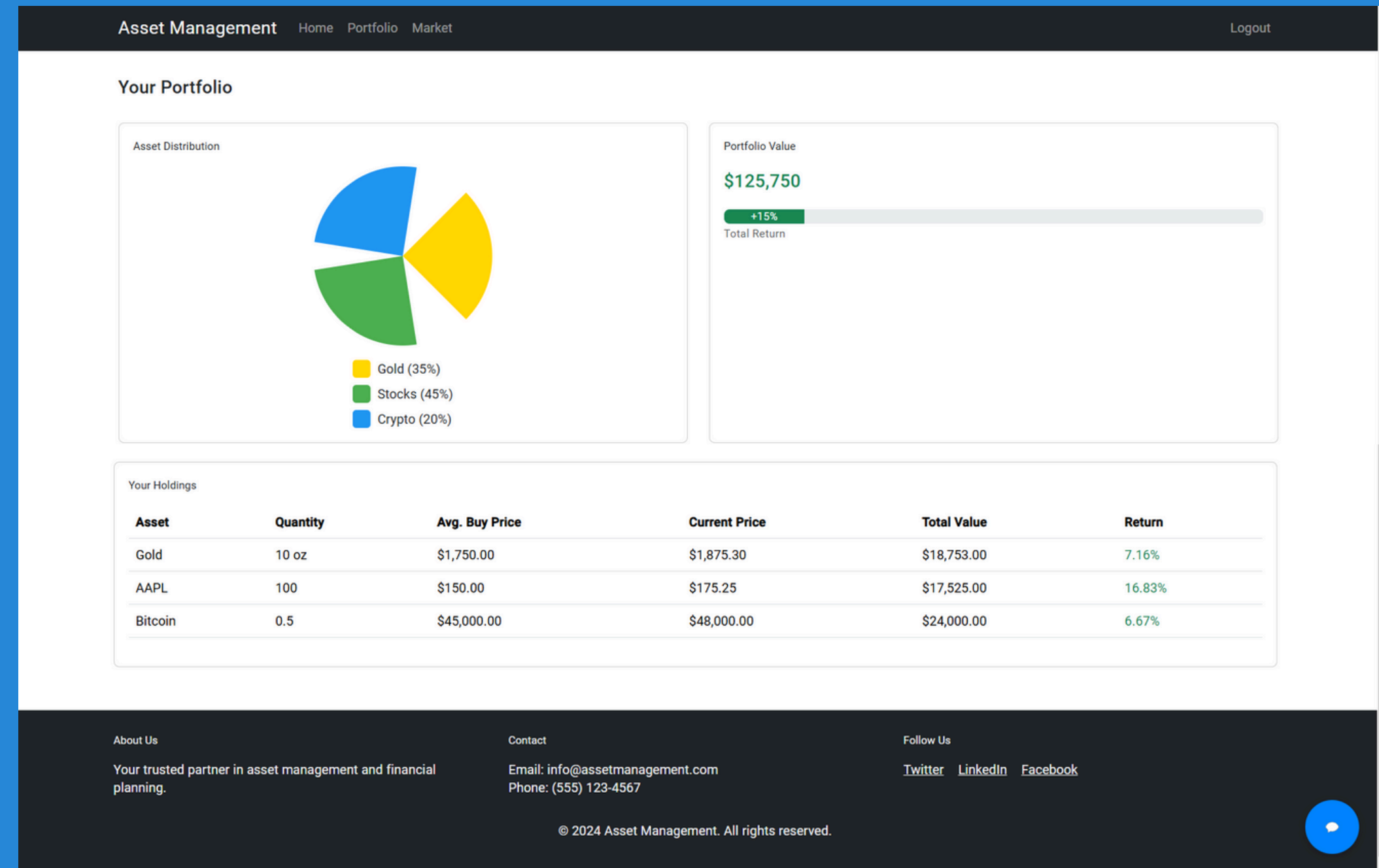
Key	Value
returnUrl	/
token	eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJtZUBnbWVpYyB20i...

Below the table, a single log entry is visible:

```
1 eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJtZUBnbWVpYyB20iLCJpYXQiOiJlE3MzEzNDg5OTcsImV4cCI6MTczM...
```


Portfolio

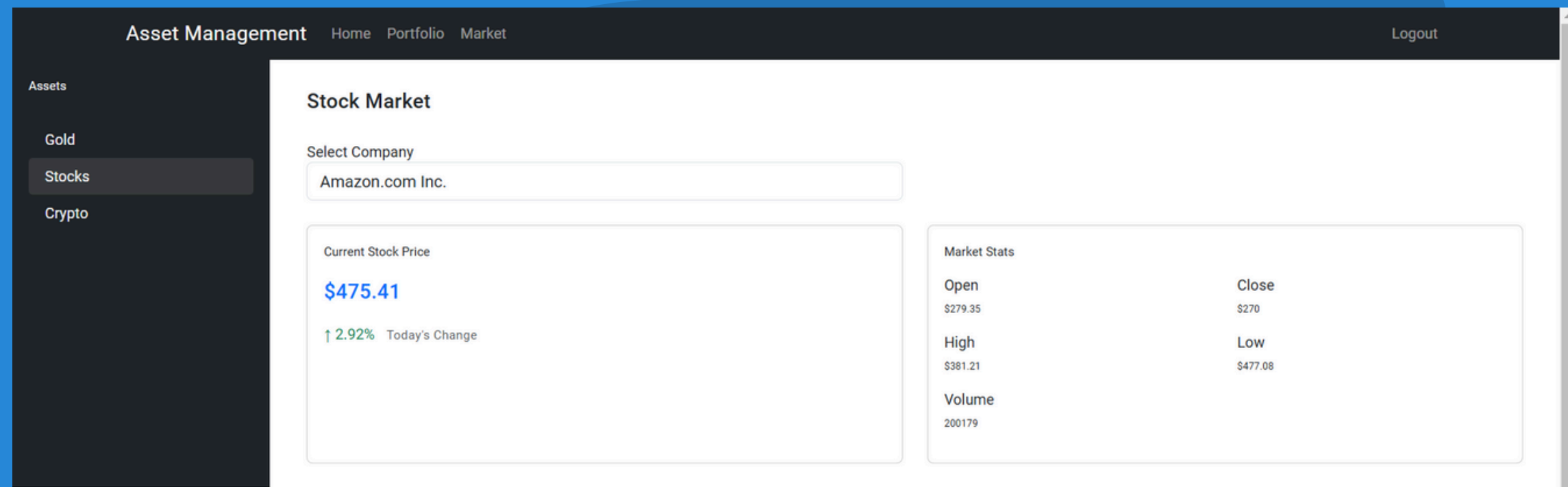
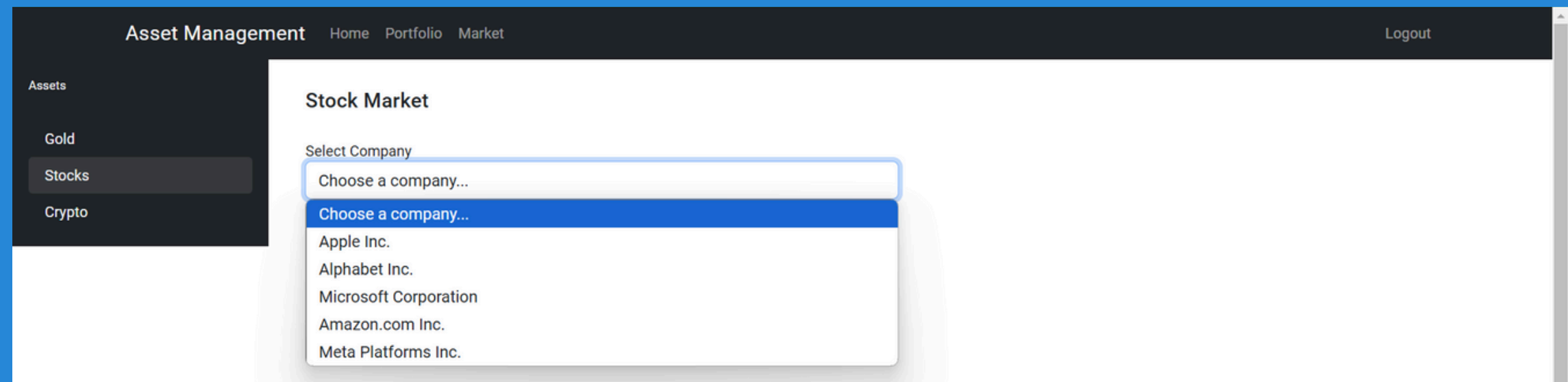
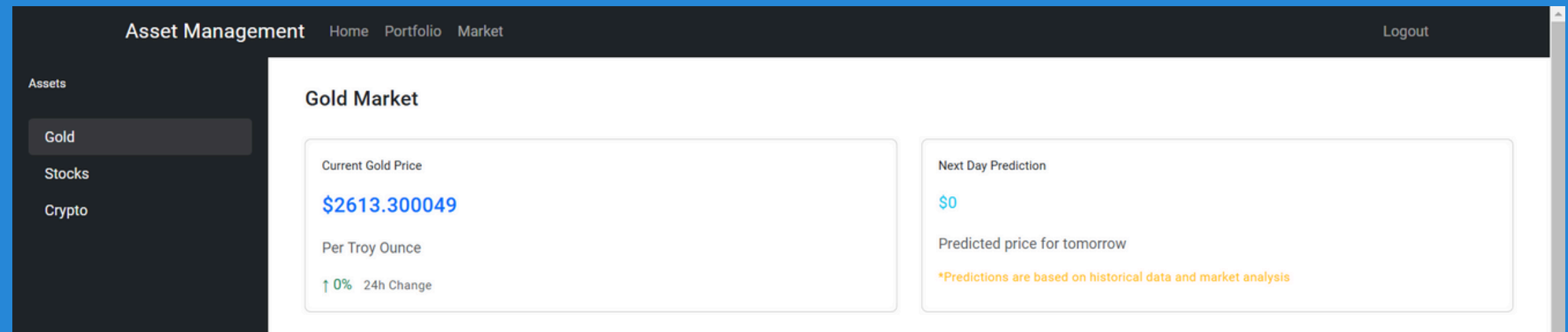
- Asset Distribution
- Displays User Portfolio Value
- User Holdings
 - Asset
 - Quantity
 - Current Price
 - Return etc.,



Market

- Gold
- Stocks
 - Apple Inc.
 - Alphabet Inc.
 - Microsoft Corporation
 - Amazon.com Inc.
 - Meta Platfom Inc.
- Crypto

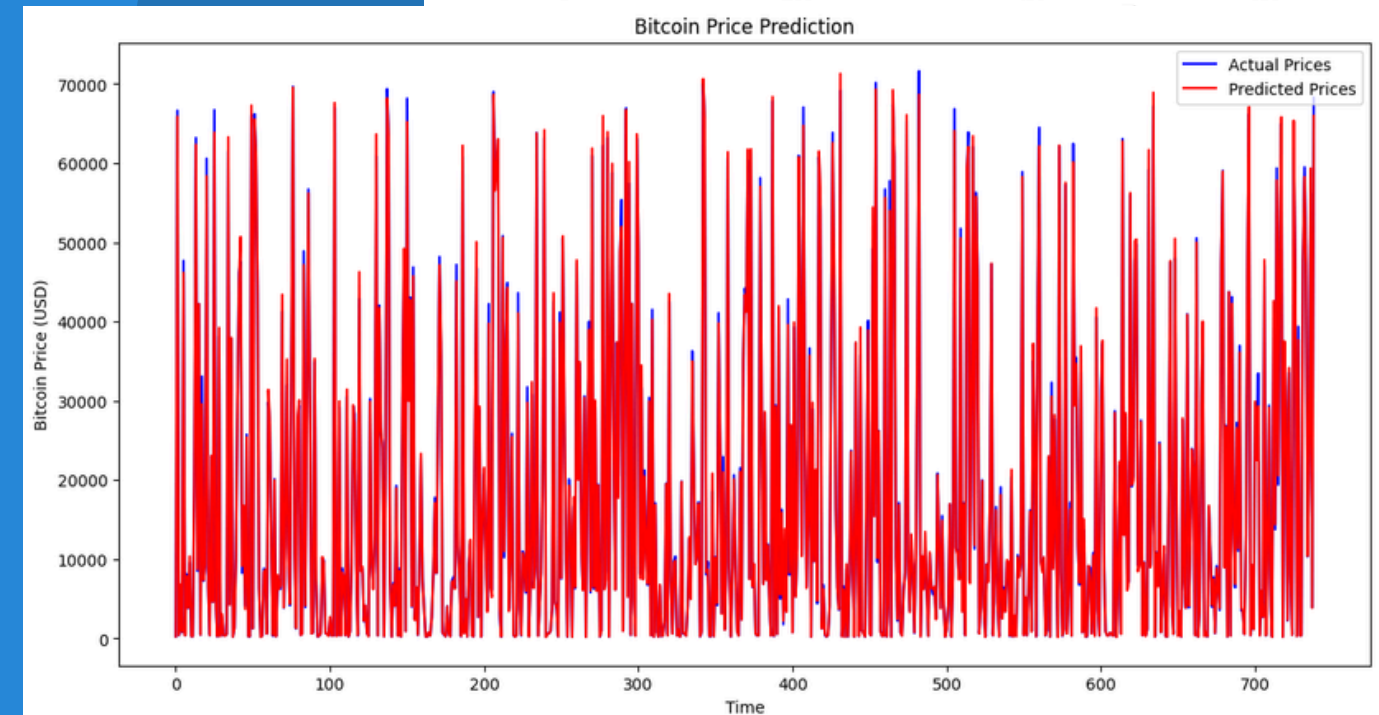
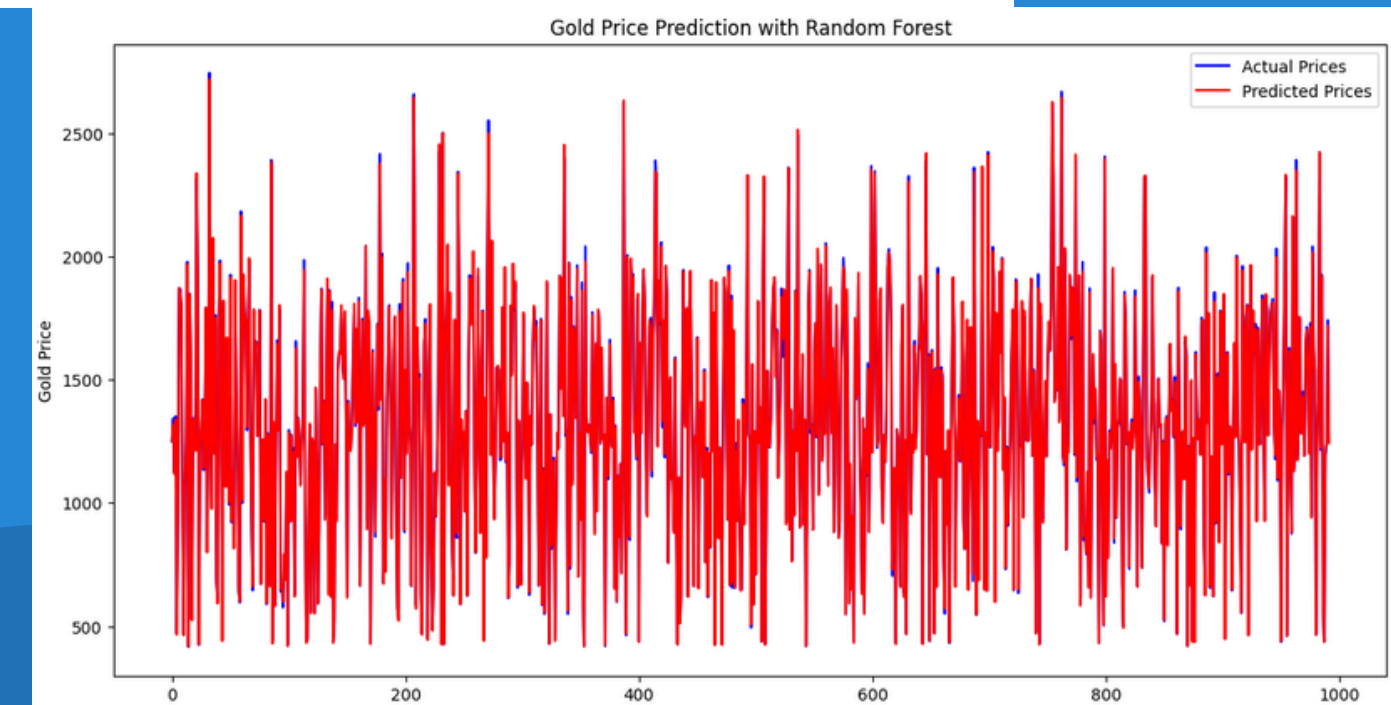
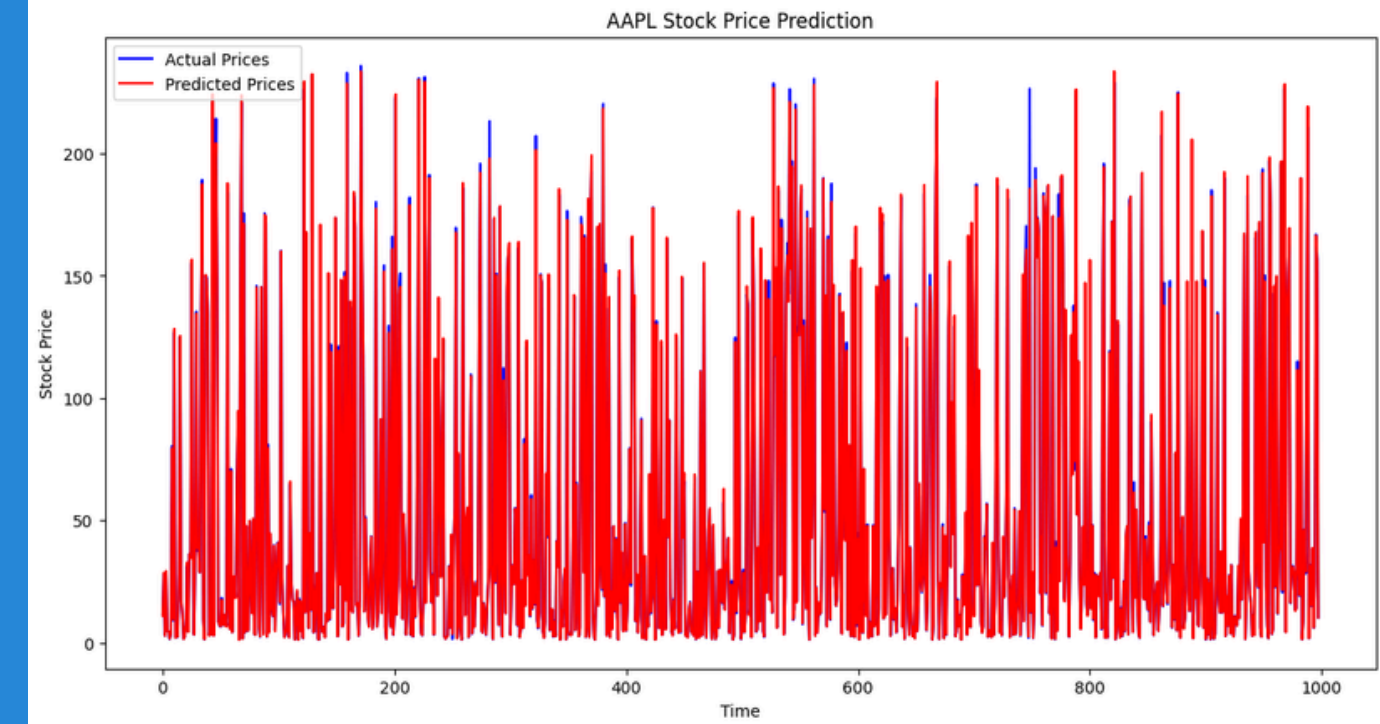
*Page Under Development



*Page Under Development

Machine Learning

- **Stock Price Prediction**
 - Long Short Term Memory (LSTM)
- **Gold Price Prediction**
 - Random Forest (Grid Search CV)
- **Bitcoin Price Prediction**
 - Categorical Boosting (CatBoost)



GitHub Organization Link



Asset Management System





**Thank
You**



Group 3

Kartikey

Gitesh Kailas Ambre

Laasya Kandukuri