

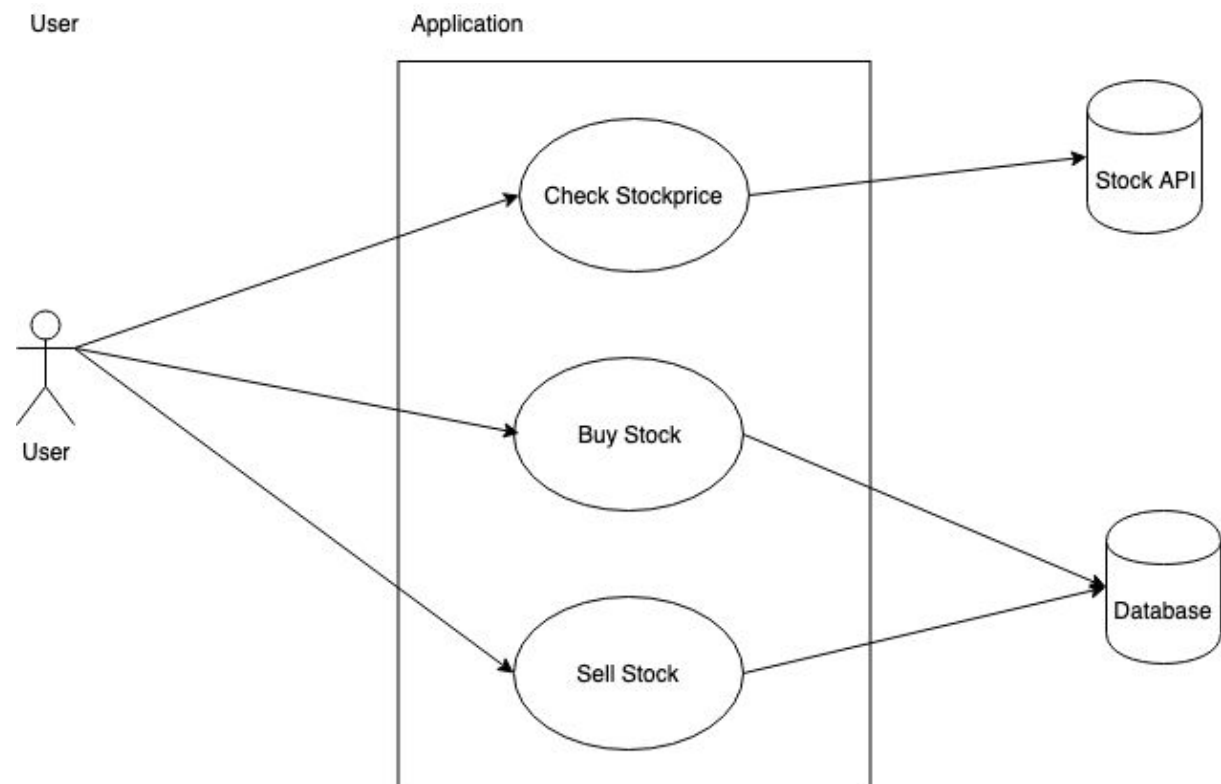
## Purpose

This SRS aims to clarify and state the requirements for the development of Stöck Mäster by Stöck Mästers Inc. The document's intended audience is the developers and the partners of Stöck Mästers Inc.

## Scope

The software to be produced is called Stöck Mäster which lets users visualize data from the stock market Nasdaq in real-time and display historical stock data. The software will not provide any advice or analysis of the data visualized.

## Product Perspective



## Product Functions

The key functions that the software product will offer is:

- Query a current stock price at runtime
- Query the price trend of a stock on the same day
- Query a historical data for week, month, year
- “Complete” a buy/sell
- Show the stock query in a graph
- Login to your account
- Add funds to your account?
- Show your portfolio

## User Characteristics

The technical competence required to use the product will be low as there will be no advanced functionality. The intended user of the product is an english speaking person with

moderate interest in the stock market who wants an easy way to track and buy/sell certain stocks. No background knowledge or specific skills are required to use the product.

### **Constraints, Assumptions and Dependencies**

We can only use free third party services and as such we will be constrained by the data provided by such services. We are also dependant on the functionality provided by these services. We do however assume that the third party service used will be able to provide enough functionality and api requests to cover the key product functionality. The product will be developed solely in english.

Another dependency of the system is the visualization framework that is used to create graphs of stock data.

### **External interfaces**

Inputs:

User Inputs available stock.

User can press buy/sell button.

User can edit timeframe.

User can enter credentials for sign in

Third party API responses.

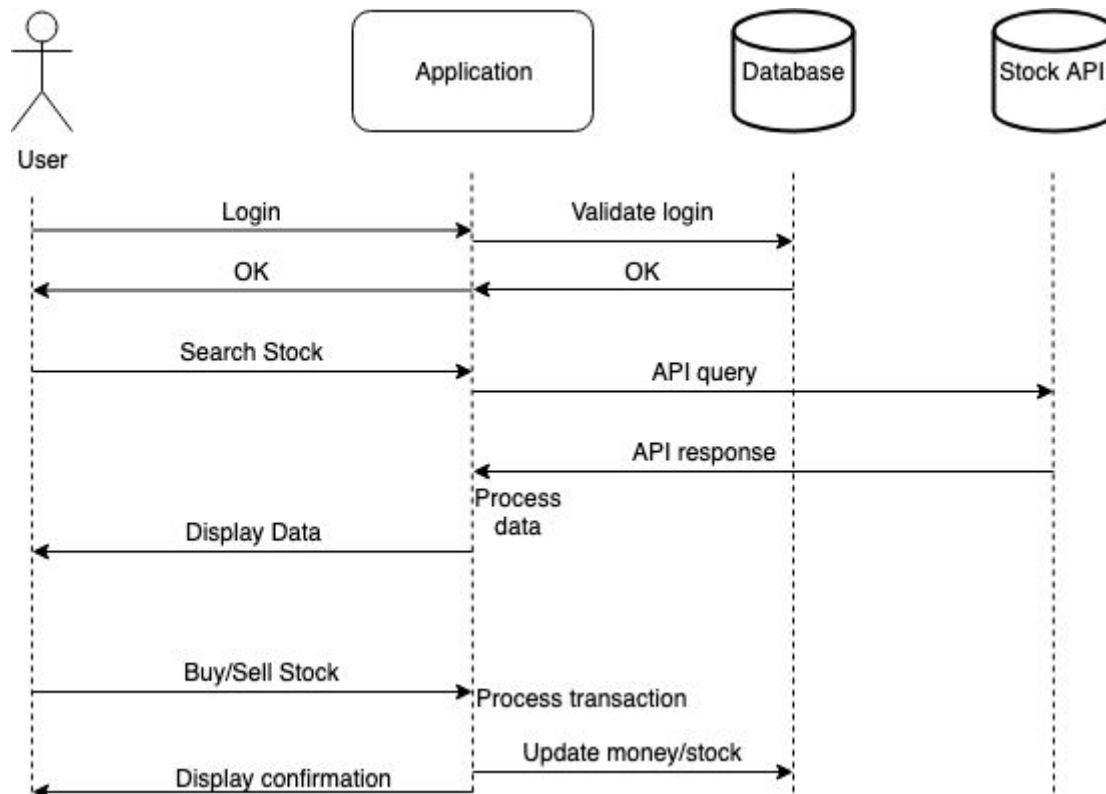
Output:

Stock visualization.

Stock daily trend

Sign in confirmation

Buy/Sell confirmation



### Functional requirements

User inputs a stock name. → The system will then retrieve stock data for that specific stock.

User inputs a stock name. → The system will display the daily trend.

User inputs sign in credentials → gets signed in or denied.

Retrieved stock data → The system will visualize the retrieved stock data to the user.

User updates timeframe → The visualization displays retrieved stock info within the new timeframe.

User updates timeframe → The system displays the trend for selected timeframe.

User buys a certain amount of shares of some stock → The system calculates the price and deduct the correct amount from the user wallet. The user portfolio is updated.

User sell a certain amount of shares of some stock → The system calculates the price and adds the correct amount of money to the user wallet. The user portfolio is updated.

### Performance requirements

The system should be able to handle at most 5 API requests per minute and 500 API requests per day.

The system requires enough performance to handle all of our registered users to have a pleasant stay on our site while using our services.

### Software system attributes

Availability, reusability, maintainability