

Stock Trading App

Software Requirements Document (SRD)

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1. Introduction

1.1 Purpose of this Document

The purpose of this Software Requirements Document (SRD) is to describe the client-view and developer-view requirements for the Stock Trading App. This document includes the following sections: User Persona, Use Cases, Product Interfaces, Functional Requirements, and Non-Functional Requirements.

1.2 Scope of the Development Project

The Stock Trading App is intended to execute orders on stocks for different accounts. To do this, it will need to have a database server to store the trader and client's information, a web application server to deploy the program, and access to stock prices.

On the other hand, the Stock Trading App will not need a database to store the stock prices; instead, it will pull them from an external source.

2. User Personas

Stock trader (Jeff): Jeff is a stock trader with excellent knowledge in stocks and work experience as a user of the App. The company employs him on a full-time basis from Monday to Friday. Jeff is comfortable with technology. He uses a computer daily and works with the stock trading app to get details on stocks, have access to clients' accounts, and buy and sell stocks for those accounts.

3. Use Cases

During his shift, Jeff, a stock trader, logs into the Stock Trading app with his credentials. He has access to 15 different clients' accounts. He will check who each of them is going so far and get details about different stocks. Depending on the objective of each client, he will buy or sell stocks for each account.

4. Product Interfaces

The Stock Trading App is an in-house application that will give the company the chance to make changes as necessary in a short time and at less cost without worrying about an external trader party.

The Stock Trading App interfaces with several components:

- Web application server
- Database server.

5. Functional Requirements

The Stock Trading App will execute orders on stocks for different accounts by meeting the following functional requirements:

- FR0(R): The App will allow the user to get price information about stocks from an external source through an API.
- FR1(R): The App will allow the user to have access to clients' accounts by the PostgreSQL tables through the DataSource (JDBC).
- FR2(R): The App will allow the user to buy and sell stocks for different accounts by the PostgreSQL tables through the DataSource (JDBC).

6. Non-Functional Requirements

The Stock Trading App will execute orders on stocks for different accounts by meeting the following non-functional requirements:

Interface: User:

- NFR0(R): The app will allow stock traders to log into their accounts.

Interface: Software:

- NFR1(R): The app will in any Operation System that has access to a modern browser.

Physical Environment:

- NFR2(R): The app will log out the trader if they are away from keyboard for more than 5 minutes.

Performance: Response Time

- NFR3(R): The stock trader will be able to place a buy and sell order for the stocks in a few seconds.

Performance: Resource Utilization

- NFR4(R): Each client list of stock will consume less than 1 MB of memory.

Security

- NFR5(R): The app will only be usable by authorized traders that have access by a user id and password.