Techanical Analysis stock screener case part-A

Software Requirement Specification (SRS) Document

Sprint 1 Implementation

Project Timeline: 20.08.2022 to 27.08.2022

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1. Introduction:

The introduction of the software requirement specification provides an overview of the entire software. The entire SRS with overview description purpose, scope, tools used and basic description. The aim of this document is to gather, analyze and give an in-depth insight into the complete Technical Analysis Stock Screener application by defining the problem statement in detail. The detailed requirements of the Technical Analysis Stock Screener application is provided in this document.

1.1 Purpose: -The purpose of this document is to show the requirements for the Technical Analysis Stock Screener application, in which List of Stocks will be kept and take average of latest 10 records and 50 records based on both averages recommend the Buy, Sell, Hold to User

1.2 Intended Audience: -This document is intended to be read by, Client.

1.3 Intended Use: -

- Development Team
- Maintenance Team
- Clients

Since this a general-Purpose Software any one can access it.

1.4 Scope: -This project aims to create the development of an Technical Analysis Stock Screener application. Which takes the list of stocks such as various stocks like infosys, ibm etc.., display the stocks to the user now user can select the desired stock and can see the average and also recommendation based on recommendations he can choose anything.

2. Overall Description: -

It is an Technical Analysis Stock Screener application used to keep the list of stocks . which will store the information of the stocks . It will give the information about How many stocks available and which stock is to buy, sell or hold all those information is stored. The user can view those stocks and the recommendations based on that user can decide.

2.1 Assumptions and Dependency: -

- System should have Ubuntu Linux installed.
- · System should have either 4GB or more RAM.
- The service is used preferably on a desktop or laptop.

3.System Features and Requirements: -

3.1 Functionality: -

3.1.1 F_01-> Addition of stock: This function is mainly used to addition of the stock. So the new stocks can be added in the list

3.1.2 F_02->Modification of stock: This function is mainly used to modify so that we can update or do some modifications in the list.

3.1.3 F_03-> Deletion of stock: In this functionality we can delete the stock in the list.

3.1.4 F_04-> File maintenance: Here we can maintains the list of given files.

3.1.5 F_05-> Recommendations: This is the main purpose of this project we can suggest the user to sell, buy or hold the stocks based on the average of the stocks

3.1.6 F_06-> Buy stock: Buy stock means if the average of latest 10 records is less than the average of 50 records then we suggest the user to buy

3.1.6 F_06-> Sell stock: Sell stock means if the average of latest 10 records is greater than the average of 50 records then we suggest the user to sell

3.1.6 F_06-> Hold stock: Hold Stock means if the both the averages are same then we recommend the user to hold the stock

3.2 System Requirements: -

3.2.1. Tools to be used:

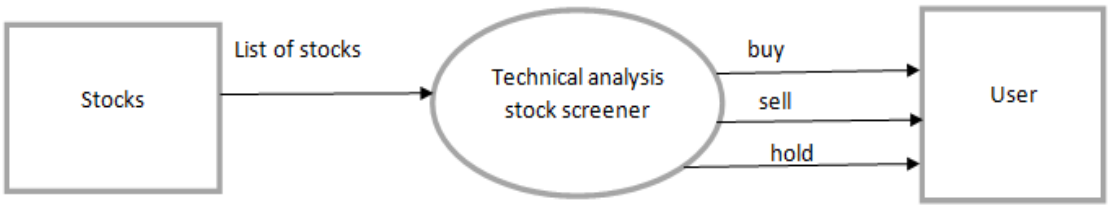
- Linked list and string tokenization
- C File Handling
- C Language
- Valgrind
- Makefile
- System Programming

3.3 System Features: -

- Supportability: The system is easy to use.
- Design Constraints: The system is built using only C language.
- Usability: The Technical Analysis System Screener application can be used for recommendation of stocks whether to buy, sell or hold.
- Reliability & Availability**:** The system is available 24/7 that is whenever the user would like to use the system, they can use it up to its functionalities.
- Performance: The system will work on the user's terminal**.**

4. Data Flow Diagram:

4.1 DFD Level 0 -



4.1 DFD Level 1 -

DFD Level 1: