TECHNICAL ANALYSIS SCREENER_1 MOVING AVERAGES

High Level Design & Low Level Design

Document Control :

TECHNICAL ANALYSIS SCREENER_1 MOVING AVERAGES								
Guided by- **Mr. Sankar**								
Date	Version	Author		Brief Description of Changes		Approver Signature		
November 13-2022	1.0	Badagouni Laxmi Prasanna Gorige Kavya Jillellamudi Meghana Bothsa Snehita Sri Pooja Hruthi						

INTRODUCTION

1 Purpose:

The purpose of this project is to show the requirements to Create stock details such as stock id, stock open, stock high, stock low and stock volume. Update and modify stock details and recommend the people to buy/sell stocks using algorithm of moving averages.

1.1 Intended Audience:

This document is intended to help the people who mostly invests on stocks.

1.2 Project Purpose:

The purpose of this project is to help people to recommend buy/sell stocks using moving averages.

1.3 Key Project Objectives:

1. Allows to create stock details such as stock id, stock open, stock high, stock low, stock volume.
2. Update and modify functionalities of stocks.
3. File Maintenance by admin.
4. Analysing the algorithm using moving averages.
5. Recommend to buy / sell stocks based on algorithm.

1.4 Scope:

This project used to create the stock details such as stock id, stock open, stock high, stock low, stock volume. Update and Modify the functionalities of stocks. Analyzing the algorithm using moving averages and then recommend the people to buy or sell using algorithm.

2. Design Overview:

Technical Analysis Screener consists of the following:

Name of the Module	Add/Remove/Update stock to a configuration file and others console based
Handled by	Jillellamudi Meghana, Gorige Kavya
Description	User stock inputs are taken and implemented

Name of the Module	Addition and modification functionality of stocks
Handled by	Sri Pooja Hruthi
Description	Researched and developed the code on addition and modification operations

Name of the Module	Deletion functionality of stocks and error detection
Handled by	Badagouni Laxmi Prasanna
Description	Developed code on deletion operation and error are detected

Name of the Module	Config.ini or settings.ini file maintenance
Handled by	Bothsa Snehita
Description	Configured file maintenance

Name of the Module	Design of algorithm
Handled by	Bothsa Snehita, Sri Pooja Hruthi
Description	Algorithm is designed for buy/sell recommendations

Name of the Module	Implementation of algorithm for buy or sell recommendation
Handled by	Badagouni Laxmi Prasanna, Gorige Kavya, Jillellamudi Meghana
Description	Algorithm is implemented for buy/sell recommendations

2.1 Design Objectives:

Technical Analysis Screener is used to help the people who mostly invests on stocks and help them in buying and selling of stocks based on increasing and decreasing the prices of stocks day by day and recommend them to buy / sell stocks based on the algorithm of moving averages.

2.2 Error Detection / Exceptional Handling:

If the user enters a stock id which does not exists in the created stocks then it shows stock doesn't exists. If the user want to append the stocks more than the configured value then it displays can't append more than configured value of stocks.

2.3 Performance:

The system will work on the user terminal. The performance depends on the hardware component of the user's system.

2.4 Maintenance:

Very little maintenance should be required for this setup. An initial configuration will be the only system required interaction after system is put together. The only other user maintenance would be any changes to settings after setup, and any specified special cases where user settings or history need to be changed. Physical maintenance on the system's parts may be required, and would result in temporary loss of data or Internet. Upgrades of hardware and software should have little effect on this project but may result in downtime.

3.ENVIRONMENT DESCRIPTION

3.1Time Zone Support: IST- Kolkata

3.2Language Support: English

3.3User Desktop Requirements

- 64-bit processor, 1.50 GHz or faster
- At least 10 GB free hard drive space
- At least 1 GB RAM Server

3.3.1 Integration Requirements
- Language: C
- Tools: Valgrind, c tags
- Complier: gcc

- Linux Environment

3.3.2Network: End to End

3.3.3 Configuration:

Operating System: Linux environment

4.CONCLUSION :

Moving averages estimates the technical analysis used to help smooth out price data by creating a constantly updated average price. A rising moving average indicates the security is an uptrend, while a declining moving average indicates a downtrend. Based upon the averages in uptrend is recommended and the averages in the downtrend is not recommended.