

Stock Management System Application Development

ELF / HTD Training Programs
Java Full Stack - Use Cases

1. INTRODUCTION

This document outlines the Project. The project is to develop a Stock Management System. This document contains the work flow of the system and gives guidelines on how to build the functionality gradually in each of the course modules.

2. PROBLEM STATEMENT

2.1 Objective

Develop a Stock Management System (SMS) simulation for investors to buy stocks of companies

2.2 ABSTRACT OF THE PROJECT

This project is aimed at developing a standalone Stock Management System simulation, which is used by investors to buy stocks/shares of a company

2.3 FUNCTIONAL COMPONENTS OF THE PROJECT

Following is a list of functionalities of the system. Wherever, the description of functionality is not adequate; you can make appropriate assumptions and proceed. There are three kind of users, (company manager) one who add the stocks and remove stocks from the application. This user can update the stocks that can be brought by the investors. (investor) one who can buy some stocks from the application as well as sell the stocks whatever user bought from the application in the application dashboard. And last type of user (admin) one who can do crud operation on company manager, user and crud operation on companies that are visible to investors to buy stocks. Admin will decide how much stock an investor can buy and what is the maximum amount he/she can invest in one company.

- Admin Module

- User can login
- CRUD operation on Company manager user
- CRUD operation on Company which will be there in application to buy the stocks
- Decide what is the maximum amount one investor can invest in a company
- Decide what is the maximum number of stocks one investor can buy

(Admin will add the company but number of stocks available, price of the stock will be added by company manager)

- Company Module

- User can login (credentials will be shared by admin)
- Can change the password
- CRUD operation on stocks

- Investor Module
 - User can register/login
 - Request for forgot password
 - Update profile
 - Buy stocks
 - Sell stocks
 - View all stocks which is bought by the user

3. TECHNOLOGY TO USE

Front End Technology	Angular 8.x
Back End Technology	Springboot 2.2.2, Hibernate with JPA 5.x
Server	Apache Tomcat 8.5
Database	MySQL 5.5