

# **SOFTWARE REQUIREMENTS SPECIFICATION FOR SECTOR BASED TRADE RECOMMENDATION SYSTEM**

## **1. INTRODUCTION :**

### **1.1 Purpose :**

- The software is for trade recommendation system based on user-selected sectors from Nifty stocks.
- This software includes stock information of different companies from different sectors and according to user requirements the trade is recommended.
- User is also able to access daily stock forecasts.

### **1.2 Project Scope :**

- The proposed software product is Trade Recommendation System. The system will be used for stock prediction for the user based on the live market data.
- Requirements used in this system are both functional and non-functional.

### **1.3 Goals:**

- Goals of the system are to recommend stocks accurately for the user based on top 5 performing stocks from the sector selected by the user.

## **2. OPERATING ENVIRONMENT :**

### **2.1 User Interface :**

- The software provides good graphical interface for the user which can operate on the system, performing the required tasks such as creating account and selecting the sector.
- Software allows user to view real time values of stocks.

### **2.2 Hardware Interface :**

- Operating System : Windows Operating System
- Hard Disk space used : 3.46 MB
- Processor : Core i5

### **2.3 Software Interface :**

- Spring framework
- Oracle Database
- Angular js

## **3. FUNCTIONAL REQUIREMENTS :**

### **3.1 Registration :**

- Sign-up: If the user is a new user, he/she needs to sign up to the software.
- Log-in: If the user already has an account, user needs to log-in with the registered mail-id and the password every time to use the software.
- User is asked to choose a sector from the given sectors in drop down list after he/she logs-in to the software.

### **3.2 Predictions Display :**

- After choosing sector, top 14 securities from that sector are displayed.

### **3.3 Database :**

- **User Details :** Each user should provide the following information : e-mail and password.
- A database for different market sectors and securities is maintained.

### **3.4 Technical Issues :**

- **Database:** The system uses MySQL database.
- **Operating System:** The development environment shall be Windows 10.
- The system is web-based application.

## **4. NON-FUNCTIONAL REQUIREMENTS:**

### **4.1 Performance:**

- Web server takes 14 seconds to connect.

### **4.2 Security:**

- The system requires the user to identify him/her using unique mail-id.

- Registered user shall have a password assigned to the mail-id.

#### **4.3 Reliability :**

- System is very easy to use.