**Chapter 2**

**Requirements Specification**

A computerized way of handling information about property and users details is efficient, organized and time saving, compared to a manual way of doing so. This is done through a database driven web application whose requirements are mentioned in this section.

**2.1 Overall Description**

A reliable and scalable database driven web application with security features, that is easy to use and maintain is the requisite.

**2.2 Specific Requirements**

The specific requirements of the Stock Market System are stated as follows:

**2.2.1 Software Requirements**

* IDE - Netbeans 8.2
* Web Browser – Firefox 50 or later, Google Chrome – 60 or later
* Database support - MySQL 5.7
  + MySQL Server 5.7
  + MySQL Shell 1.0.10
  + MySQL Workbench
* Operating system – Windows 7 / Ubuntu 16.04
* JDK 1.8
* Server deployment - Tomcat server / Glassfish Server

**2.2.2 Hardware Requirements**

* Processor – Pentium IV or above
* RAM – 2 GB or more
* Hard disk – 3 GB or more

**2.2.3 Technology:**

* HTML is integrated in JSP. It provides a means to structure text based information in a document. It allows users to produce web pages that include text, graphics and hyperlinks.
* JavaScript is a scripting language which supports the development of both client and server applications. It is preferred at client side to write programs that can be executed by a web browser within the context of a web page.
* CSS (Cascading Style Sheets) is a style sheet language used for describing the presentation of a document written in a mark-up language. Although most often used to set the visual style of web pages and user interfaces written in HTML and XHTML, the language can be applied to any XML document.
* SQL is the language used to manipulate relational databases. It is tied closely with the relational model. It is issued for the purpose of data definition and data manipulation.
* Java Server pages is a simple yet powerful technology for creating and maintaining dynamic-content web pages. It is based on the Java programming language. It can be thought of as an extension to servlet because it provides more functionality than servlet A JSP page consists of HTML tags and JSP tags. The jsp pages are easier to maintain than servlet because we can separate designing and development.

We require a JDBC connection between the front end and back end components to write to the database and fetch required data.

CONCLUSION

The Stock Market System provides easier maintenance of various stocks that person will invest in. It allows simplified operation and is a time saving platform with the ability to view historical data and thus invest easily and carefully on the various companies. The application has been completed successfully and tested with suitable test cases. It is user friendly and contains suitable options for users and share holders. This is developed using HTML5, CSS, JavaScript, JSP and SQL. The goals achieved by this project are:

 Centralized database

 Easier buying, selling of various stocks.

 User friendly environment.

 Efficient management of stocks.

 Ability to view historical data and analyze them for better growth.

> View profits and loss statements, current investments in various companies.

FUTURE ENHANCEMENTS

Future upgrades to this project will implement:

Better interfaces for the ability to view the stock prices of various companies including better analtics, more data across various companies, sectors and industries

1. More stock market platforms including sensex, dow jones etc
2. Ability to trade in forex exchanges and mutual funds.
3. Better banking implementations between the customer and his bank.
4. Ability to see and analyze the various companies customers tend to trade and analyze these for better info
5. Ablility to view timely data across various years and months between various time ranges as required.

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