
System Requirements Specification Index

For

Stock Market Application

Version 1.0

IIHT Pvt. Ltd.
fullstack@iiht.com

Contents

| | | |
|-------|---------------------------|---|
| 1 | Business-Requirement: | 3 |
| 1.1 | Problem Statement: | 3 |
| 1.1.1 | Company Module: | 3 |
| 1.1.2 | Stock Price Index Module: | 3 |
| 2. | Resources AVAILABLE: | 4 |
| 3 | Suggested WIREFRAMES: | 5 |
| 4 | Business Validations | 9 |
| 5 | Considerations | 9 |
| 6 | Execution Steps to Follow | 9 |

1 BUSINESS-REQUIREMENT:

1.1 PROBLEM STATEMENT:

The purpose of this application is to allow the visitors to deal with company details and stock price index.

1.1.1 Company Module:

The Company Module allows you to:

1. Access Portal's home page
2. Visitor should be able to add a new company detail
3. Company can have basic fields along with mention of Stock exchange (pre-defined) it is listed in (Ex: BSE, NSE)
4. Visitor should be able to get the list of Companies against each Stock Exchange

1.1.2 Stock Price Index Module:

The Stock Price Index Module of application allows you to:

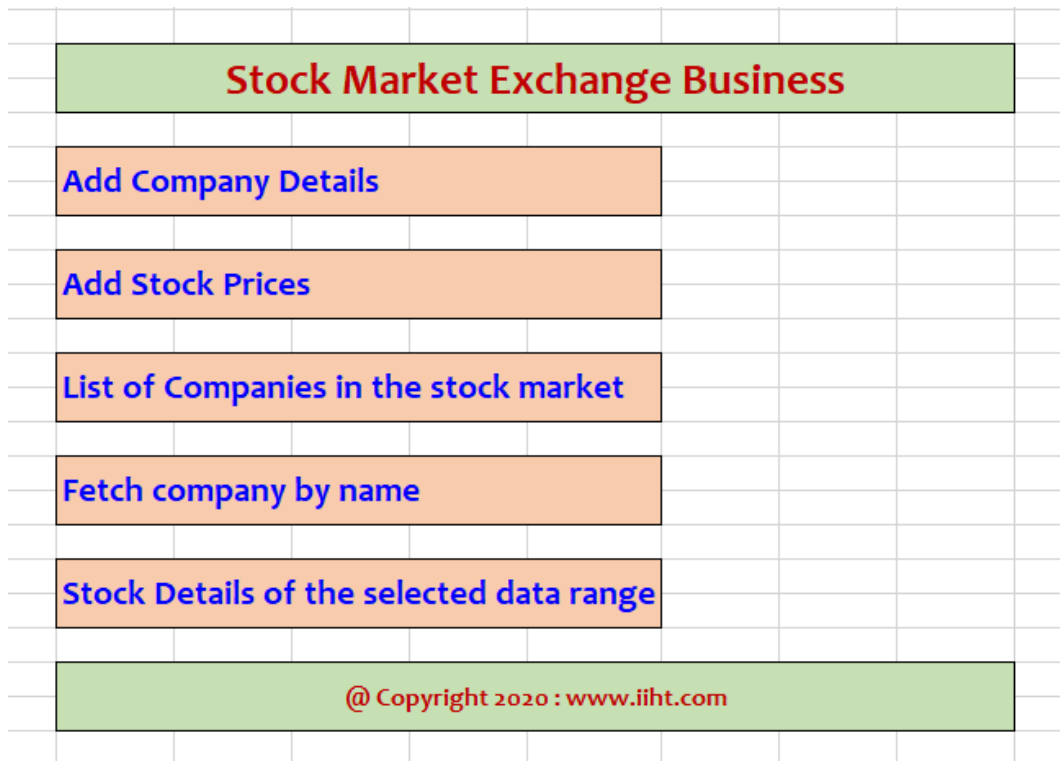
1. Visitor allowed to add multiple stock prices of the company (based on date and time)
2. Visitor should be able to search Company by name and show details of company with list of stock prices ordered on date and time
3. Visitor should be able to select a Company detail from the list and date range.
4. Need to show the minimum, maximum and average stock prices of company on selected date range

2. RESOURCES AVAILABLE:

| Description | View Pages Name | Remarks |
|----------------------------------------------------|-------------------------|----------------------------------------------------------------|
| Common UI | | |
| Home Page | index.jsp | Contains Login form for Admin and link to new user page |
| Error Page | errorPage.jsp | |
| Header | header.jsp | |
| Footer | footer.jsp | |
| Not Found Page | notfound.jsp | |
| | | |
| Company Services UI | | |
| Shall contain 'Entry Form' for new Company Details | addCompanyInfo.jsp | Must use input field names as cid, cname, cdirectors, cprofile |
| Shall use to show list of all Companies | listAllCompanies.jsp | |
| | | |
| Stock Price Index Services UI | | |
| Shall contain 'Entry Form' for new Stock Prices | addStockPrices.jsp | Must use input field names as ccode, cstockprice, cdate |
| Shall show list of Stock available for a Company | displayStockDetails.jsp | |
| Shall show list of Stock Price Index | showStockStatistics.jsp | |

3 SUGGESTED WIREFRAMES:

1. Stock Market Exchange Business – Visitor Landing Page



2. SME: Register Company

| | |
|---------------------------------|--------------------|
| SME : Add Company Details | |
| Stock Market Exchange | Listed Exchanges ▼ |
| Name of the Company | |
| Company CEO | |
| Company Turnover | |
| Company Board of Directors | |
| About the Company | |
| Post Company | |
| @ Copyright 2020 : www.iiht.com | |

3. SME: Assign Stock Price Details

| SME : Add Stock Prices | |
|---------------------------------|--------------------|
| Stock Market Exchange | Listed Exchanges ▼ |
| Name of the Company | Company Name ▼ |
| Current Stock Price | \$217.86 |
| Stock Price @Date | 01-07-2020 |
| Stock Price @Time | 09:30:27 |
| Add Stock | |
| @ Copyright 2020 : www.iiht.com | |

4. SME: List of Companies

| SME : Listed Companies Info | | | | | |
|---------------------------------|--------------|--------------------------|--------------------|-------------|----------|
| Stock Market Exchange | | | Listed Exchanges ▼ | | |
| S.No | Company Code | Company Name | BoD | CEO | Turnover |
| 1 | BSEIT101 | Cognizant IT Services | | Praful | \$500000 |
| 2 | BSETC102 | Reliance Industries | | Navin | \$800000 |
| 3 | BSEMF103 | Steel Authority of India | | Praveen | \$750000 |
| 4 | BSEAM104 | Maruthi Suzuki | | Rakesh | \$400000 |
| 5 | BSECM105 | Gurajat Trade Mills | | Shekar | \$600000 |
| 6 | BSESS106 | CMR Jewellers | | Sri Krishna | \$350000 |
| 7 | BSETA107 | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| @ Copyright 2020 : www.iiht.com | | | | | |

5. SME: Company Stock Details

| SME : Stock Details of a Company | | | | |
|----------------------------------|-------------|--------------------|----------|--------|
| Stock Market Exchange | | Listed Exchanges ▼ | | |
| Company Name | | Company Name ▼ | | |
| Company Code | | Company Code | | |
| Company CEO | | Turnover | | |
| S.No | Stock Price | Date | Time | Remark |
| 1 | \$250.78 | 03-08-2020 | 09:30:01 | |
| 2 | \$58.73 | 02-08-2020 | 10:30:01 | |
| 3 | \$73.45 | 01-08-2020 | 14:30:30 | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| @ Copyright 2020 : www.iiht.com | | | | |

6. SME: Company Stock Price Index

| SME : Stock Price Index | | | | |
|---------------------------------|-------------|--------------------|------------|--------|
| Stock Market Exchange | | Listed Exchanges ▼ | | |
| Company Name | | Company Name ▼ | | |
| Company Code | | Company Code | | |
| Start Date | 01-07-2020 | End Date | 01-08-2020 | |
| S.No | Stock Price | Date | Time | Remark |
| 1 | \$250.78 | 03-08-2020 | 09:30:01 | |
| 2 | \$58.73 | 02-08-2020 | 10:30:01 | |
| 3 | \$73.45 | 01-08-2020 | 14:30:30 | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| MAX | | | MIN | |
| | | | AVG | |
| @ Copyright 2020 : www.iiht.com | | | | |

4 BUSINESS VALIDATIONS

1. StockExchange value not null, min 3 and max 100 characters.
2. CompanyName value not null, min 3 and max 100 characters.
3. CompanyCEO value not null, min 3 and max 100 characters.
4. Turnover value not null.
5. BoardOfDirectors value not null, min 5 and max 500 characters.
6. CompanyProfile value not null, min 5 and max 500 characters.
7. currentStockPrice value not null.
8. stockPriceDate value not null.
9. stockPriceTime value not null.

5 CONSIDERATIONS

The Code template already contains skeleton methods for basic page flow. For any requirements of AJAX call, you are free to add additional REST endpoints

6 EXECUTION STEPS TO FOLLOW

1. All actions like build, compile, running application, running test cases will be through Command Terminal.
2. To open the command terminal the test takers, need to go to Application menu
(Three horizontal lines at left top) → Terminal → New Terminal
3. To build your project use command:
mvn clean package -Dmaven.test.skip
4. To launch your application:
mvn tomcat7:run
5. This editor Auto Saves the code
6. If you want to exit(logout) and continue the coding later anytime (using Save & Exit option on Assessment Landing Page) then you need to use **CTRL+Shift+B**-command compulsorily on code IDE. This will push or save the updated contents in the internal git/repository. Else the code will not be available in the next login.
7. These are time bound assessments the timer would stop if you logout and while logging in back using the same credentials the timer would resume from the same time it was stopped from the previous logout.
8. To test any Restful application, the last option on the left panel of IDE, you can find ThunderClient, which is the lightweight equivalent of POSTMAN.
9. This is a web-based application, to run the application on a browser, use the internal browser in the workspace. Click on the second last option on the left panel of IDE, you can find Browser Preview, where you can launch the application.
Note: The application will not run in the local browser
10. Default credentials for MySQL:
 - a. Username: **root**
 - b. Password: **pass@word1**
11. To login to mysql instance: Open new terminal and use following command:
 - a. **sudo systemctl enable mysql**
 - b. **sudo systemctl start mysql**
 - c. **mysql -u root -p**
The last command will ask for password which is '**pass@word1**'
12. Mandatory: Before final submission run the following command:
mvn test

13. You need to use **CTRL+Shift+B** - command compulsorily on code IDE, before final submission as well. This will push or save the updated contents in the internal git/repository, and will be used to evaluate the code quality.