

---

# 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

Stock Market Exchange Business											
Add Company Details											
Add Stock Prices											
List of Companies in the stock market											
Fetch company by name											
Stock Details of the selected data range											
@ Copyright 2020 : www.iiht.com											

## 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`

**NOTE:** After typing the second sql command (`sudo systemctl start mysql`), you may encounter a warning message like :

System has not been booted with systemd as init system (PID 1).  
Can't operate. Failed to connect to bus: Host is down

>> Please note that this warning is expected and can be disregarded.  
Proceed to the next step.

- 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.