

# **Arbitrage Recommendation System(NSE/BSE)**

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## **1.Introduction:**

To create a web application for Arbitrage Recommendation System.

### **1.1 Purpose of this Document:**

This SRS describes the function and performance requirements of the Arbitrage Recommendation System.

### **1.2 Scope of the Development Project:**

1. A UI interface for login page where user can enter the credentials and login to home page.
2. A home page where all the arbitrage opportunities are shown.
3. From the arbitrage opportunities user can save the stocks for later use.

## **2. General Description:**

### **2.1 User Personas and Characteristics:**

- 1) User A has username: abc and password: 123 and the user enters correct credentials on the login page. The user is directed to the home page.
- 2) User B has username:xyz and password 456 and the user enters incorrect credentials on the login page. The user is prompted an alert to enter correct credentials.

### **2.2 Overview and Functional Requirements:**

Arbitrage Recommendation System:

- a) Users can login into their account with proper credentials. Once the login details are verified the user is redirected to the home page of Arbitrage opportunities.
- b) Separate database is created for login credentials.
- c) The BSE/NSE stock prices of different companies are fetched from the Yahoo Finance API.
- d) The Arbitrage opportunity is calculated in the following way:  
Arbitrage: NSE Price - BSE Price.

- e) User can also save stocks for further buy/sell opportunities.

### **3. Specific Requirements:**

#### **3.1 Tech Stack**

Frontend:- Angular

Backend:- SpringBoot

Database: MySQL

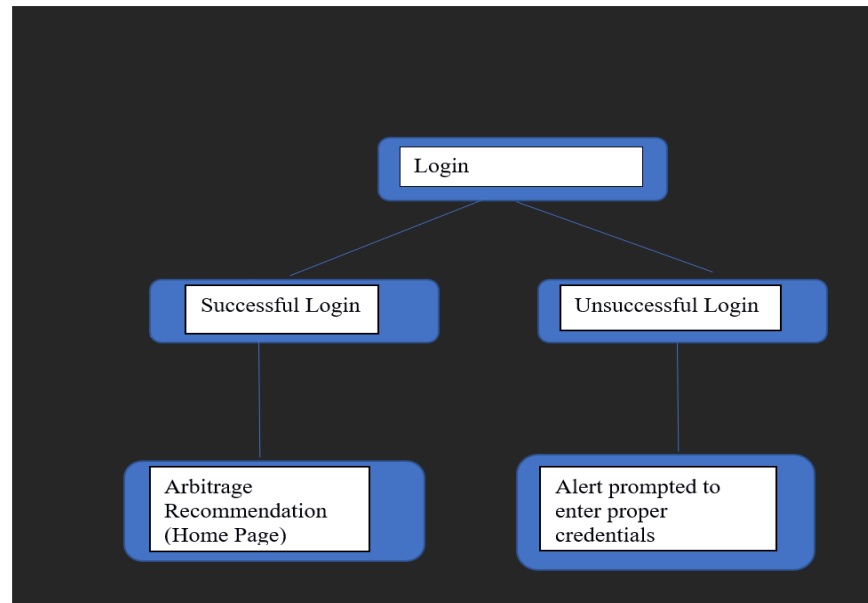
Features of Angular:

1. High Quality of the Application.
2. Improved Speed and Performance.
3. Faster Development Process.
4. Readable and Testable Code.

Features of SpringBoot:

1. It reduces lot development time and increases productivity
2. It avoids writing lots of boilerplate code, Annotations and XML configuration.
3. It provides embedded HTTP servers like Tomcat , Jetty,etc. To develop and test our web applications very easily.

### 3.2 Workflow



### 4. Benefits

1. User can see various arbitrage opportunities.
2. The facility for save the stocks is provided.
3. User friendly interface

### 5. Future Scope:

1. AI Based recommendation for the arbitrage system.
2. Saved stocks can be made visible to the user.
3. Graphical representation of in historical analysis
4. Enhancing compatibility for mobiles, tab ,desktops and browsers.