Develop a webservice using Java to implement the skeleton application below. The objective of the problem is to allow the candidate to **demonstrate their skill and experience** in aspects of the development process including domain modelling, object-oriented design, scalability and analysis, use of language constructs and features, etc… Must use Spring and Maven (even if you don't know it) to package the solution. So we expect at least two programs, a web service and also a basic client.

Candidate will have 48 hours to complete this exercise and must be your own work because you will be asked about the design and technique used.

Exercise: Build a basic Order Management System, do not spend more than 2-3 hours and use open source (i.e., Spring boot) for the scaffolding and focus on the application features. No persistence is required and list assumptions you are making and why. Please note, we expect this code as an example how you would code, so please use your normal coding style and how you normally would have develop an application like this.

The WebService is a skeleton Order Management System.

1. User must be able to logon before placing any order, first time user needs to register first before he/she can logon
2. Logon consists username, password, company
3. Once logon successfully, user can query the webservice for a list of tradable products and also return your current list of orders
4. You can buy/sell these tradable products if the price match, otherwise it will reject to explain why.

The Client

1. Build a HTML Client or a Swing Client to interact with the WebService.
2. Consider using the same webserver to serve HTML for HTML client and avoid using NodeJS.
3. Less focus on Client, just want to test end-2-end, spend more time on server side logic.
4. Upload to github, so that we can access it.