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Software Developer Interview – Mini Project

Thanks for applying for a Developer position at EnverSoft!

Please complete the mini project described below. The scenario is as follows:

You are invited to attend a meeting with the board of directors of a small company that sells cleaning products. You are an independent vendor selected by them to supply them with your skills in developing applications for them. At the meeting they show a short presentation of what they need the application to do (described below). They request that you provide them with a Prototype / POC / MVP of the application within 1 to 2 days in order to prove to them that you are the right contractor for the job. If you are successful in delivery the MVP you will be awarded the contract.

They have the following problem at hand:

They have a list of suppliers (see Supplier DB.xlsx) and want the Supplier database to be available to all their Sales staff that is constantly on the road trying to get new business. The application will grow into a bigger application whereby they will be doing Ordering/Warehouse Management/Logistics and Finances on the application.

For the POC they ONLY want you to provide an application that is available online whereby a sales member can do the following functions:

1. Have an input screen whereby sales can input a company name and telephone no.
2. They also want a screen where they can search by company name and it will display the supplier's telephone number.

The POC application shouldn't be worrying about authentication at the moment, but it should have the following qualifying criteria:

1. It must save the information to an actual database.
2. It must have a middle layer due to additional security (3-Tier application – Front Layer, Services Layer and Repository)

In your proposal create the program with the technology stack that you feel you are most comfortable in. You must have a middle/services layer in the form of webservice/Web API or another form of middle layer and the application must be 3-tier compliant. You may select only a MS-SQL database (this can be Express/Developer/Standard/Enterprise or a standalone instance). You may use any ORM technique in order to connect to the database. As mentioned before do not worry about authentication to the application or being able to login to the application. This is a POC and therefore do not worry too much about the aesthetics of the application, although it needs to look appealing to your customer. You have 1-2 days in order to deliver your application.

When you have completed the project, please upload it to the public source repository (GitHub, Bitbucket, Gitlab etc.)